LAUNCH COMPLEX 34, SWMU CC054
HOT SPOT AREA 6 EXPANSION – PHASE THREE
IMPLEMENTATION WORK PLAN
CAPE CANAVERAL SPACE FORCE STATION, FLORDA

Prepared for:



National Aeronautics and Space Administration
Kennedy Space Center, Florida

April 2024
Revision 0

Prepared by:

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April 2024

PROFESSIONAL ENGINEER CERTIFICATION

This Implementation Work Plan for Hot Spot Area 6 Expansion – Phase Three at Launch Complex 34, Solid Waste Management Unit CC054, at Cape Canaveral Space Force Station, Florida, dated April 2024, has been prepared by or under the responsible supervision, direction, or control of the Florida-licensed professional engineer whose signature and seal appear below. This document and the work described herein complies with standard professional practices and requirements of Chapter 62-780, Florida Administrative Code (F.A.C.) and other rules of the Florida Department of Environmental Protection according to Rule 62-780.400(1), F.A.C.



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ACRONYMS AND ABBREVIATIONS

ADP	Advance Data Package
AS	Air Sparging
ASTM	American Society of Testing and Materials
bls	below land surface
BMP	Best Management Practice
CCSFS	Cape Canaveral Space Force Station
cDCE	cis-1,2-Dichloroethene
COC	Contaminant of Concern
CVOC	Chlorinated Volatile Organic Compound
DBIDS	Defense Biometric Identification System
DEP	Department of Environmental Protection
DNAPL	Dense Non-Aqueous-Phase Liquid
DOT	Department of Transportation
DPT	Direct Push Technology
DSZ	DNAPL Source Zone
ESB	Engineering Support Building
F.A.C.	Florida Administrative Code
GCTL	Groundwater Cleanup Target Level
HAP	Hazardous Air Pollutant
HCP	High Concentration Plume
HCS	Hydraulic Containment System
HDPE	High-Density Polyethylene
HS	Hot Spot
I.D.	Inside Diameter
IDW	Investigation-Derived Waste
IM	Interim Measure
IWP	Implementation Work Plan
JPEG	Joint Photographic Experts Group
KSC	Kennedy Space Center

ACRONYMS AND ABBREVIATIONS (CONTINUED)

KSCRT	Kennedy Space Center Remediation Team
LCP	Low Concentration Plume
LC34	Launch Complex 34
NAD	North American Datum
NADC	Natural Attenuation Default Concentration
NASA	National Aeronautics and Space Administration
NAVD	North American Vertical Datum
NOI	Notice of Intent
NOT	Notice of Termination
NPDES	National Pollutant Discharge Elimination System
O&M	Operation and Maintenance
OM&M	Operation, Maintenance, and Monitoring
PID	Photoionization Detector
PLC	Programmable Logic Controller
PPE	Personal Protective Equipment
psig	pound per square inch gauge
PVC	Polyvinyl Chloride
RCRA	Resource Conservation and Recovery Act
REC	Record of Environmental Consideration
RIS	Remediation Information System
ROI	Radius of Influence
RPM	Remediation Project Manager
SAP	Sampling and Analysis Plan
scfm	standard cubic foot per minute
SDR	Standard Diameter Ratio
SOP	Standard Operating Procedure
SSHASP	Site-Specific Health and Safety Plan
SWMU	Solid Waste Management Unit
SWPPP	Stormwater Pollution Prevention Plan

ACRONYMS AND ABBREVIATIONS (CONTINUED)

TCE	Trichloroethene
tDCE	trans-1,2-Dichloroethene
TOC	Top of Casing
µg/L	microgram per liter
USEPA	United States Environmental Protection Agency
VC	Vinyl Chloride
VOC	Volatile Organic Compound

EXECUTIVE SUMMARY

This Implementation Work Plan (IWP) for Hot Spot (HS) Area 6 Expansion – Phase Three, presents the design and coordination specifics to expand the existing HS 6 Air Sparging (AS) Interim Measure (IM) at Launch Complex 34 (LC34) located at Cape Canaveral Space Force Station (CCSFS), Florida. LC34 has been designated as Solid Waste Management Unit CC054 under the Kennedy Space Center (KSC) Resource Conservation and Recovery Act Corrective Action Program.

Expansion of the HS 6 IM will include installation of an additional 192 AS wells to depths of approximately 40 feet below land surface (bls) to remediate contaminated groundwater within two areas located west and northeast of the existing HS 6 AS treatment area. These areas were delineated via direct push technology investigations in September and October 2023. The expansion will target "hot spot" concentrations of cis-1,2-dichloroethene (cDCE) and vinyl chloride (VC), which are the contaminants of concern in these areas with concentrations greater than 10-times Florida Department of Environmental Protection Natural Attenuation Default Concentrations. The highest cDCE and VC concentrations detected in the proposed phase three expansion area were 58,000 micrograms per liter (µg/L) (32 to 36 feet bls) and 12,000 µg/L (23 to 27 feet bls), respectively. The objective for this expansion is to remediate contaminated groundwater within the treatment zone to support transition to long-term monitoring. This phase three expansion will add an additional 9.4 acres of treatment area to the HS 6 IM, which currently covers approximately 26.9 acres.

The IM design for this phase three expansion will utilize the existing AS system trailer that was installed for the original HS 6 IM in 2018 (160 AS wells) and used for the first and second phases of the HS 6 IM expansions completed in 2019 and 2023, respectively (additional 330 AS wells). For this third phase of expansion, two new distribution trailers and subsurface piping will be installed to distribute compressed air from the existing AS trailer to the 192 new AS wells. A network of 30 monitoring wells (18 existing and 12 new) will be sampled on a quarterly basis following a baseline sampling event, and results will be used to evaluate performance of the IM expansion.

The contents of this document were presented during the February 2024 KSC Remediation Team meeting, and consensus was reached to proceed with development of this IWP based on the presentation. Construction completion and performance monitoring will be incorporated into LC34's Annual Performance Monitoring Reports, which are currently submitted on an annual schedule to document operation and maintenance activities, performance monitoring, and results from the two remediation systems currently operating at LC34: the dense non-aqueous phase liquid source zone hydraulic containment system and the HS 6 AS system.

SECTION I
INTRODUCTION

This Hot Spot (HS) Area 6 Expansion – Phase Three Implementation Work Plan (IWP) was prepared by Tetra Tech, Inc., for the National Aeronautics and Space Administration (NASA) under the Indefinite Delivery Indefinite Quantity Contract 80KSC019D0011-80KSC019F0067, for the implementation of an Air Sparging (AS) Interim Measure (IM) at Launch Complex 34 (LC34), located at Cape Canaveral Space Force Station (CCSFS), Florida. LC34 has been designated as Solid Waste Management Unit (SWMU) CC054 under the Kennedy Space Center (KSC) Resource Conservation and Recovery Act (RCRA) operating permit.

This IWP presents the design and coordination specifics to expand the existing HS 6 AS IM with an additional 192 AS wells to the west and northeast of the current HS 6 AS treatment area. These AS wells are designed to remediate contaminated groundwater located outside of the hydraulic containment system (HCS) IM treatment area for the dense non-aqueous phase liquid (DNAPL) source zone (DSZ). The design presented in this IWP will consist of a description of the installation of infrastructure required to accommodate the expanded AS system.

1.1 SITE SETTING AND HISTORY

LC34 is located in Section 6, Township 23 South, and Range 38 East in the False Cape Quadrangle. The facility is located on CCSFS (renamed from Cape Canaveral Air Force Station in December 2020) and is bordered by Launch Complex 37 to the north, by Launch Complex 20 to the south, by ICBM Road (Samuel Phillips Parkway) to the west, and by the Atlantic Ocean to the east. Prior to development, LC34 consisted of relict sand dunes and interdunal swales typical of barrier island depositional environments. A detailed description of site buildings and structures is presented in the RCRA Facility Investigation Report (NASA, 1999). The location of LC34 within CCSFS is presented on Figure A-1 in Appendix A, and an LC34 site map is presented as Figure A-2.

1.2 BACKGROUND

The launch pad and associated facilities at LC34 were built in the late 1950s and used by the NASA Apollo Space Program for the launching of Saturn rockets from 1960 to 1968. Historical information suggests that rocket engines and other parts were cleaned at the site using solvent degreasers, most notably trichloroethene (TCE). It is speculated that releases of solvents occurred during cleaning operations through both intentional and unintentional discharges to nearby areas. Based on groundwater sampling data, these releases occurred primarily in the immediate vicinity of the former Engineering Support Building (ESB) located southwest of the Blockhouse and identified on Figure A-2. Following shutdown of the launch pad in 1968, LC34 has remained largely inactive, although several site features (e.g., Blockhouse, camera pad, etc.) are still present. Most operational equipment (service towers, fuel storage tanks, piping, etc.) has been dismantled, and the majority of the on-site buildings and structures were abandoned-in-place. Native and invasive vegetation has overgrown much of the site, and dense wooded areas currently surround the site. Figure A-2 shows LC34's location and major site features.

1.3 SITE CHARACTERIZATION

Beginning in 1993, a number of site investigations, engineering studies, and pilot-scale in-situ remedial technology demonstrations have been performed at LC34. Extensive soil and groundwater contamination was identified and characterized during the investigations. Chlorinated solvents are the primary contaminants of concern (COCs) and have been detected at trace to high concentrations in groundwater and soil above Florida Department of Environmental Protection (DEP) cleanup criteria. The overall mass of TCE released at the site is unknown; however, the majority of TCE mass is present within the DSZ, which is approximately two acres in size and currently being contained by the HCS. The overall extent of the LC34 groundwater plume encompasses over 300 acres, which is identified as the Low Concentration Plume (LCP) where COC concentrations exceed State of Florida Groundwater Cleanup Target Levels (GCTLs). Within the LCP includes 162 acres of High Concentration Plume (HCP), where COC concentrations exceed Florida DEP Natural Attenuation Default

Concentrations (NADCs). Several HSs have also been identified within the HCP, where COC concentrations exceed 10-times NADCs.

Site characterization efforts for HS 6 began in 2014, and cis-1,2-dichloroethene (cDCE) and vinyl chloride (VC) were identified as the COCs with concentrations greater than 10-times NADCs. The initial HS 6 AS IM was implemented in 2018 with 160 AS wells, and subsequently expanded in 2019 with an additional 140 AS wells. Further sampling in 2019-2020 and 2022 delineated additional areas of cDCE and VC exceeding the Hot Spot criterion (10-times NADCs) on the north side of the existing HS 6 IM treatment area and the one-year HCS capture zone (the region where groundwater will reach a HCS recovery well within a one-year timeframe). The AS network was expanded again in 2023 (Phase Two expansion) with an additional 190 AS wells. The combined 490 AS well network covers approximately 26.9 acres of treatment area (8.4 acres from original installation, 7.3 acres from first expansion, and 11.2 acres from the second expansion). HS locations and the existing HS 6 IM treatment area are shown on Figure A-3.

In September and October 2023, further investigations were conducted to refine and delineate areas to the west and northeast of the existing HS 6 IM treatment area that previously exceeded 10-times NADCs. Area #1 is a HS located to the west of the existing HS 6 treatment area and HCS one-year capture zone. Area #2 is a HS located northeast of the HS 6 IM treatment area and situated on the southeast-side of the launch pad. Expanding the HS 6 AS network to treat Areas #1 and #2 is the focus of this IWP. The locations of the Phase Three expansion HS areas are shown on Figure A-3, and direct push technology (DPT) sampling analytical results for the investigation are shown on Figure A-4. Detailed discussion of the Areas #1 and #2 DPT groundwater investigations are included in Section II of this IWP.

1.4 LITHOLOGY

Subsurface materials have been subdivided into nine facies (layers) in the LC34 area. Layers 1, 2, 3, 6, and 8 are considered the primary water-transmitting units in the site area. All nine layers are described below and shown on Figure A-5. The descriptions provided are based on

average lithology depths, as land surface is not uniform across the site due to past development and grading (i.e., stormwater ditches, elevated launch pad):

- Layer 1 – tan/gray fine sand with shell fragments (approximately 25 feet thick from 0 to 25 feet below land surface [bls]);
- Layer 2 – gray silty clayey fine sand with shell fragments (approximately 5 feet thick from 25 to 30 feet bls);
- Layer 3 – gray silty fine sand with shell fragments (approximately 12 to 15 feet thick from 30 to 45 feet bls);
- Layer 4 (shallow confining unit) – greenish gray sandy clay unit (less than 1 to 5 feet thick from 45 to 50 feet bls);
- Layer 5 – medium to coarse sand with shell fragments (approximately 12 to 15 feet thick from 50 to 65 feet bls);
- Layer 6 – gray fine to medium “salt and pepper” sand (approximately 20 feet thick from 65 to 85 feet bls);
- Layer 7 – fine silty gray sand with abundant shell fragments (approximately 15 feet thick from 85 to 100 feet bls); and,
- Layer 8 – fine to coarse sand with shell fragments (approximately 20 feet thick from 100 to 120 feet bls).

The Hawthorn Formation (Layer 9), which directly underlies the lower sand unit (Layer 8) and ranges from 120 to 140 feet bls, is a thick green sandy clay and is considered a regional confining unit.

1.5 DOCUMENT ORGANIZATION

The remainder of this document is organized as follows:

Section II: DPT Groundwater Investigation for Hot Spot 6 - Phase Three Expansion – presents a summary of the DPT groundwater investigation conducted to delineate two HS areas in September and October 2023.

Section III: Interim Measure Summary – presents a summary of the IM objectives and technical approach for implementation of the HS 6 AS system expansion (phase three).

Section IV: Permitting Requirements and Site Preparation – details the permitting and site preparation requirements.

Section V: Interim Measure Implementation – discusses the technology to be implemented, details of the monitoring well and AS system, and installation processes.

Section VI: System Commissioning, Verification, and Operation and Maintenance – describes the steps taken to commission the expanded AS system and transition to full-scale operation.

Section VII: Performance Monitoring Program – describes how process and performance monitoring will be implemented, including baseline and post-startup sampling.

Section VIII: Site Controls – discusses the measures that will be taken to prevent or mitigate unintended exposure to human health and the environment.

Section IX: Waste Management Procedures – describes the processes by which contaminated groundwater, decontamination liquids, and other items will be disposed of.

Section X: Remediation Management – covers various administrative aspects of the project, including scheduling, reporting, and data quality management.

Section XI: References – lists the documents referenced in this IWP.

SECTION II
DPT GROUNDWATER INVESTIGATION
FOR HOT SPOT 6 - PHASE THREE EXPANSION

DPT groundwater sampling activities were conducted in September and October 2023 to delineate two HS areas (referred to as Area #1 and Area #2) outside of the existing HS 6 IM treatment area and HCS capture zone. Area #1 is a HS located to the west of the existing HS 6 treatment area and HCS one year capture zone. Area #2 is a HS located northeast of the HS 6 IM treatment area and situated on the southeast side of the launch pad. The locations of Area #1 and Area #2 are shown on Figure A-3.

In total, 594 groundwater samples were collected from 93 DPT locations in these two areas of LC34, focusing on vertical intervals between 6 to 45 feet bls (DPT0914 to DPT0996 and DPT1009 to DPT1018). Note, DPT0997 to DPT1008 were collected in a separate area of the site, unrelated to this HS investigation, and are therefore not discussed in this document. Each DPT groundwater sample was collected using a 4-foot long screen point sampler. DPT groundwater sample intervals across LC34 were collected from 6 to 10, 11 to 15, 16 to 20, 23 to 27, 32 to 36, 36 to 40, and 41 to 45 feet bls. Note, not all DPT locations were sampled across all or the same sample intervals. DPT groundwater sampling depths were based upon historical volatile organic compound (VOC) analytical results and laboratory analytical results obtained during the investigation. The DPT drilling company was DrillPro, LLC of Orlando, Florida. Samples were analyzed by Eurofins Orlando of Altamonte Springs, Florida, for VOCs, via United States Environmental Protection Agency (USEPA) Method SW-846 8260D.

The Phase Three Expansion Site Characterization Advance Data Package (ADP) (NASA, 2024), which summarized this DPT investigation and the HS delineations for Area #1 and Area #2, was presented to the KSC Remediation Team (KSCRT) in February 2024. Team consensus was reached for the horizontal and vertical delineation of both areas to support the expansion of the HS 6 AS IM (Meeting Minute 2402-M03, Decisions 2402-D02 and 2402-D03). A copy of the ADP and relevant meeting minutes are provided in Appendix B.

2.1 DPT INVESTIGATION RESULTS

The following sections discuss the DPT groundwater investigations results. This groundwater analytical data was used to determine final placement of proposed AS wells across the treatment areas and to document pre-IM VOC groundwater concentrations. The target VOC analytical list evaluated for HS delineation included TCE, cDCE, trans-1,2-dichloroethene (tDCE), and VC. Note, Freon was not detected in any of the DPT samples collected. VOC analytical results are presented in Table 2-1 and on Figure A-4. Laboratory analytical packages are provided in Appendix C, and sampling field forms and notes are provided in Appendix D.

2.1.1 Area #1 Results. 318 samples collected from 49 DPT locations were used to delineate the HS in Area #1. TCE was detected in 28 of the 318 samples with a maximum concentration of 470 micrograms per liter (µg/L) at DPT0969 (32 to 36 feet bls). Of the 28 TCE detections, 16 samples exceeded its GCTL, one exceeded its NADC, and no samples exceeded 10-times its NADC. cDCE was detected in 299 of the 318 samples with a maximum concentration of 58,000 µg/L at the same location of maximum TCE exceedance (DPT0969, 32 to 36 feet bls). Of the 299 cDCE detections, 151 samples exceeded its GCTL, 78 exceeded its NADC, and 15 exceeded 10-times its NADC. tDCE was detected in 115 of the 318 samples with a maximum concentration of 2,100 µg/L at DPT0969 (32 to 36 feet bls). Of the 115 tDCE detections, 17 samples exceeded its GCTL, two exceeded its NADC, and no samples exceeded 10-times its NADC. VC was detected in 268 of the 318 samples with a maximum concentration of 12,000 µg/L at DPT0970 (23 to 27 feet bls). Of the 268 VC detections, 253 samples exceeded its GCTL, 154 exceeded its NADC, and 61 exceeded 10-times its NADC. Since TCE and tDCE concentrations did not exceed the 10-times NADC HS criterion, the Area #1 HS delineation was focused on cDCE and VC.

The following provides a breakdown of the 2023 DPT sampling results in Area #1 with HS exceedances by interval:

- In the 6-10 feet bls interval, no samples exceeded the HS criterion.

- In the 11-15 feet bls interval, DPT0918 exceeded 10-times the VC NADC with a concentration of 1,200 µg/L.

- In the 16-20 feet bls interval, 14 samples exceeded 10-times the VC NADC with a maximum concentration 6,000 µg/L at DPT0954, while three samples exceeded 10-times the cDCE NADC with a maximum concentration of 10,000 µg/L at DPT0932.

- In the 23-27 feet bls interval, 15 samples exceeded 10-times the VC NADC with a maximum concentration 12,000 µg/L at DPT0970, while four samples exceeded 10-times the cDCE NADC with a maximum concentration of 42,000 µg/L at DPT0970.

- In the 32-36 feet bls interval, 12 samples exceeded 10-times the VC NADC with a maximum concentration 9,600 µg/L at DPT0969, while four samples exceeded 10-times the cDCE NADC with a maximum concentration of 58,000 µg/L at DPT0969.

- In the 36-40 feet bls interval, 18 samples exceeded 10-times the VC NADC with a maximum concentration 8,000 µg/L at DPT1009, while four samples exceeded 10-times the cDCE NADC with a maximum concentration of 33,000 µg/L at DPT1009.

- In the 41-45 feet bls interval, only one sample exceeded 10-times the cDCE and VC NADCs with concentrations of 14,000 µg/L and 8,300 µg/L at DPT0996, respectively. DPT0996 is the only DPT location within Area #1 with 10-times NADC concentrations extending into Layer 4.

Additional sampling was not conducted below Layer 4 as the HS 6 AS IM is focused on remediating HS conditions above Layer 4 and outside of the hydraulic containment capture zone. Historical sampling associated with HS 6 has indicated that HS concentrations outside of the DSZ area are above Layer 4, a shallow confining unit. In Area #1, HS exceedances extended into Layer 4 at only one location (DPT0996), which is located adjacent to the shallow and deep HCS capture zones.

In summary, all 10-times cDCE NADC exceedances coincided with 10-times VC NADC exceedances. Therefore, only VC results were used to contour the boundary of the HS within Area #1. The 10-times NADC exceedances ranged between 11 and 45 feet bls.

DPT groundwater sampling results are presented in Table 2-1 and shown on Figure A-4. Vertical profiles for VC contamination within Area #1 are shown on Figures A-6 and A-7.

2.1.2 Area #2 Results. 276 samples collected from 44 DPT locations were used to delineate the HS in Area #2. TCE was detected in 7 of the 276 samples with a maximum concentration of 6.1 µg/L at DPT1011 (16 to 20 feet bls). Of the 7 TCE detections, one sample exceeded its GCTL, and no samples exceeded its NADC. cDCE was detected in 226 of the 276 samples with a maximum concentration of 1,200 µg/L at DPT0939 (16 to 20 feet bls). Of the 226 cDCE detections, 57 samples exceeded its GCTL, five exceeded its NADC, and zero exceeded 10-times its NADC. tDCE was detected in 85 of the 276 samples with a maximum concentration of 440 µg/L at DPT0937 (23 to 27 feet bls). Of the 85 tDCE detections, five samples exceeded its GCTL, and no samples exceeded its NADC. VC was detected in 230 of the 276 samples with a maximum concentration of 9,500 µg/L at DPT0937 (23 to 27 feet bls). Of the 230 VC detections, 223 samples exceeded its GCTL, 76 exceeded its NADC, and 20 exceeded 10-times its NADC. Since TCE, cDCE, and tDCE concentrations did not exceed the 10-times NADC HS criterion, the Area #2 HS delineation was focused on VC.

The following provides a breakdown of the 2023 DPT sampling results in Area #2 with HS exceedances by interval:

- In the 6-10 feet bls interval, DPT0939 exceeded 10-times the VC NADC with a concentration of 1,200 µg/L.

- In the 11-15 feet bls interval, no samples exceeded the HS criterion.

- In the 16-20 feet bls interval, five samples exceeded 10-times the VC NADC with a maximum concentration 3,800 µg/L at DPT0984.

- In the 23-27 feet bls interval, 11 samples exceeded 10-times the VC NADC with a maximum concentration 9,500 µg/L at DPT0937.

- In the 32-36 feet bls interval, three samples exceeded 10-times the VC NADC with a maximum concentration 3,500 µg/L at DPT0952.

- In the 36-40 feet bls interval, no samples exceeded the HS criterion.

- In the 41-45 feet bls interval, no samples exceeded the HS criterion.

In summary, 10-times NADC VC exceedances ranged between 6 and 36 feet bls. DPT groundwater sampling results are presented in Table 2-1 and shown on Figure A-4. Vertical profiles for VC contamination within Area #2 are shown on Figures A-8 and A-9.

2.1.3 Other VOC Exceedances. In addition to the target VOCs discussed in the previous sections, the following VOCs were detected in DPT groundwater samples at concentrations greater than their GCTLs:

- 1,1-Dichloroethane exceeded its GCTL (70 µg/L) at DPT1015 in the 16-20 feet bls interval with a concentration of 170 µg/L,

- 1,1-Dichloroethene exceeded its GCTL (7 µg/L) at six locations with a maximum of 25 µg/L at DPT0932 in the 16-20 feet bls interval,

- Benzene exceeded its GCTL (1 µg/L) at five locations with a maximum of 370 µg/L at DPT0971 in the 32-36 feet bls interval,

- Bromodichloromethane exceeded its GCTL (0.6 µg/L) at DPT1011 in the 23-27 feet bls interval with a concentration of 2.5 µg/L,

- Bromoform exceeded its GCTL (4.4 µg/L) at DPT0921 in the 16-20 feet bls interval with a concentration of 2.5 µg/L,

- Carbon Tetrachloride exceeded its GCTL (3 µg/L) at two locations with a maximum of 17 µg/L at DPT0970 in the 36-40 feet bls interval,

- Dibromochloromethane exceeded its GCTL (0.4 µg/L) at three locations with a maximum of 3.5 µg/L at DPT1011 in the 23-27 feet bls interval,

- Chloroethane exceeded its GCTL (12 µg/L) at 2 locations with a maximum of 54 µg/L at DPT1015 in the 16-20 feet bls interval,

- Chloromethane exceeded its GCTL (2.7 µg/L) at DPT1011 in the 23-27 feet bls interval with a concentration of 3.4 µg/L,

- 1,3-Dichloropropene exceeded its GCTL (0.4 µg/L) at two locations with a maximum of 3.1 µg/L at DPT1011 in the 23-27 feet bls interval, and

- Ethylbenzene exceeded its GCTL (30 µg/L) at DPT0971 in the 32-36 feet bls interval with a concentration of 83 µg/L,

- Isopropyl benzene exceeded its GCTL (0.8 µg/L) at two locations with a maximum of 230 µg/L at DPT0971 in the 32-36 feet bls interval, and

- Total Xylenes exceeded its GCTL (20 µg/L) at three locations with a maximum of 920 µg/L at DPT1015 in the 32-36 feet bls interval.

It appears that a number of these results may be the result of ambient cross-contamination, particularly the volatile organic aromatics and disinfection byproducts. Since DPT groundwater samples are screening level data, quality control samples were not submitted to the laboratory during the sampling event. The performance monitoring samples that will be collected will be analyzed for the same suite of compounds, and the presence and concentration of these other analytes will be evaluated.

Table 2-1. DPT Groundwater Analytical Results

Sample Location (LC34-)	Sample Date	Sample Depth Interval (feet bls)	TCE	cDCE	tDCE	VC
DPT0914	9/18/2023	6 - 10	0.20 U	**13**	0.34 U	**50**
		11 - 15	0.20 U	**31**	0.34 U	**110**
		16 - 20	0.20 U	**33**	0.34 U	**130**
		23 - 27	0.20 U	**540**	**6.7**	**460**
		32 - 36	0.20 U	0.25 U	0.34 U	0.40 U
		36 - 40	0.20 U	0.25 U	0.34 U	0.40 U
DPT0915	9/18/2023	6 - 10	0.20 U	**48**	0.34 U	**160**
		11 - 15	0.20 U	**87**	0.34 U	**350**
		16 - 20	0.20 U	**700**	**4.5**	**690**
		23 - 27	0.20 U	**390**	**1.1**	**110**
		32 - 36	0.20 U	**0.98 I**	0.34 U	0.40 U
		36 - 40	0.20 U	0.25 U	0.34 U	0.40 U
DPT0916	9/18/2023	6 - 10	0.20 U	**18**	0.34 U	**55**
		11 - 15	0.20 U	**110**	0.34 U	**340**
		16 - 20	0.20 U	**190**	0.34 U	**590**
		23 - 27	1.0 U	**1,200**	**27**	**740**
		32 - 36	0.20 U	**15**	0.34 U	**7.5**
		36 - 40	0.20 U	**1.2**	0.34 U	0.40 U
DPT0917	9/19/2023	6 - 10	0.20 U	**44**	0.34 U	**130**
		11 - 15	0.20 U	**300**	0.34 U	**830**
		16 - 20	0.20 U	**770**	**4.2**	**1,100**
		23 - 27	1.0 U	**1,400**	**17**	**790**
		32 - 36	0.20 U	**36**	0.34 U	**15**
		36 - 40	0.20 U	**0.70 I**	0.34 U	0.40 U
DPT0918	9/19/2023	6 - 10	0.20 U	**8.1**	0.34 U	**38**
		11 - 15	0.20 U	**460**	**0.90 I**	**1,200**
		16 - 20	0.20 U	**2,300**	**87**	**2,000**
		23 - 27	2.0 U	**2,300**	**53**	**1,100**
		32 - 36	0.20 U	**40**	0.34 U	**12**
		36 - 40	0.20 U	**2.7**	0.34 U	0.40 U
DPT0919	9/19/2023	6 - 10	0.20 U	**7.4**	0.34 U	**60**
		11 - 15	0.40 U	**25**	0.68 U	**330**
		16 - 20	1.0 U	**1,700**	**53**	**2,200**
		23 - 27	1.0 U	**2,100**	**79**	**2,500**
		32 - 36	2.0 U	**240**	3.4 U	**89**
		36 - 40	0.20 U	**1.3**	0.34 U	0.40 U
DPT0920	9/19/2023	6 - 10	0.20 U	**0.36 I**	0.34 U	**8.0**
		11 - 15	**3.6 I**	**170**	3.4 U	**220**
		16 - 20	10 U	**2,100**	**79**	**1,200**
		23 - 27	1.0 U	**8,200 Q**	**140**	**2,000 Q**
		32 - 36	2.0 U	**170**	3.4 U	**53**
		36 - 40	0.20 U	**2.3**	0.34 U	**3.0**

Table 2-1. DPT Groundwater Analytical Results (continued)

Sample Location (LC34-)	Sample Date	Sample Depth Interval (feet bls)	TCE	cDCE	tDCE	VC
DPT0921	9/20/2023	6 - 10	10 U	**170**	17 U	**30 I**
		11 - 15	0.40 U	**30**	0.68 U	**75**
		16 - 20	0.20 U	**2,300 L**	**97**	**2,000 L**
		23 - 27	0.20 U	**3,700 L**	**110**	**1,900 L**
		32 - 36	0.20 U	**20**	0.34 U	**1.6**
		36 - 40	0.20 U	**1.9**	0.34 U	0.40 U
DPT0922	9/20/2023	6 - 10	0.20 U	**0.84 I**	0.34 U	**0.59 I**
		11 - 15	1.0 U	**17**	1.7 U	**35**
		16 - 20	0.20 U	**2,700 Q**	**39**	**3,300 Q**
		23 - 27	0.20 U	**2,200 Q**	**28**	**860 Q**
		32 - 36	0.20 U	**77**	0.34 U	**10**
		36 - 40	0.20 U	**1.5**	0.34 U	0.40 U
DPT0923	9/20/2023	6 - 10	0.40 U	**1.4 I**	0.68 U	0.80 U
		11 - 15	1.0 U	**320**	1.7 U	**260**
		16 - 20	0.20 U	**2,100 Q**	**9.4**	**570 Q**
		23 - 27	0.20 U	**1,600 Q**	**2.3**	**160**
		32 - 36	0.40 U	**1.3 I**	0.68 U	0.80 U
		36 - 40	2.0 U	**3.4 I**	3.4 U	4.0 U
DPT0924	9/20/2023	6 - 10	0.20 U	**15**	0.34 U	**21**
		11 - 15	**0.65 I**	**90**	**0.81 I**	**40**
		16 - 20	2.0 U	**880**	**10**	**140**
		23 - 27	2.0 U	**90**	3.4 U	4.0 U
		32 - 36	0.20 U	**0.50 I**	0.34 U	0.40 U
		36 - 40	0.20 U	**0.51 I**	0.34 U	0.40 U
DPT0925	9/21/2023	6 - 10	0.20 U	**13**	0.34 U	**14**
		11 - 15	0.20 U	**72**	**0.89 I**	**48**
		16 - 20	2.0 U	**870**	**6.1 I**	**240**
		23 - 27	0.40 U	**140**	0.68 U	**6.1**
		32 - 36	0.20 U	**0.37 I**	0.34 U	0.40 U
		36 - 40	0.20 U	**0.47 I**	0.34 U	0.40 U
DPT0926	9/21/2023	6 - 10	0.20 U	**5.6**	0.34 U	**5.6**
		11 - 15	0.20 U	**34**	**0.52 I**	**21**
		16 - 20	1.0 U	**420**	**7.3**	**200**
		23 - 27	5.0 U	**1,300**	8.5 U	**130**
		32 - 36	0.20 U	**53**	0.34 U	**8.8**
		36 - 40	0.20 U	**0.33 I**	0.34 U	0.40 U
DPT0927	9/21/2023	6 - 10	0.20 U	**5.8**	0.34 U	**6.8**
		11 - 15	1.0 U	**66**	1.7 U	**340**
		16 - 20	1.0 U	**330**	**5.5**	**210**
		23 - 27	2.0 U	**820**	**9.5 I**	**180**
		32 - 36	0.20 U	**85**	0.34 U	**11**
		36 - 40	0.20 U	0.25 U	0.34 U	0.40 U

Table 2-1. DPT Groundwater Analytical Results (continued)

Sample Location (LC34-)	Sample Date	Sample Depth Interval (feet bls)	TCE	cDCE	tDCE	VC
DPT0928	9/21/2023	6 - 10	0.79 U	**12**	0.37 U	**22**
		11 - 15	0.79 U	**19**	0.37 U	**53**
		16 - 20	7.9 U	**1,100**	**9.9 I**	**660**
		23 - 27	0.79 U	**1,100**	**14**	**220**
		32 - 36	0.79 U	0.46 U	0.37 U	0.43 U
		36 - 40	0.79 U	0.46 U	0.37 U	0.43 U
DPT0929	9/22/2023	6 - 10	0.79 U	**33**	0.37 U	**61**
		11 - 15	0.79 U	**38**	0.37 U	**84**
		16 - 20	7.9 U	**1,600**	**10**	**820**
		23 - 27	7.9 U	**1,700**	**8.0 I**	**170**
		32 - 36	0.79 U	0.46 U	0.37 U	0.43 U
		36 - 40	0.79 U	0.46 U	0.37 U	0.43 U
DPT0930	9/22/2023	6 - 10	0.79 U	**24**	0.37 U	**53**
		11 - 15	0.79 U	**56**	0.37 U	**120**
		16 - 20	0.79 U	**200**	0.37 U	**350**
		23 - 27	7.9 U	**1,200**	**19**	**260**
		32 - 36	0.79 U	**3.2**	0.37 U	**5.5**
		36 - 40	0.79 U	**0.49 I**	0.37 U	0.43 U
DPT0931	9/22/2023	6 - 10	0.79 U	**35**	0.37 U	**98**
		11 - 15	0.79 U	**61**	0.37 U	**140**
		16 - 20	7.9 U	**1,300**	**13**	**440**
		23 - 27	20 U	**3,100**	**42**	**680**
		32 - 36	0.79 U	**0.92 I**	0.37 U	**1.9 I**
		36 - 40	0.79 U	0.46 U	0.37 U	0.43 U
DPT0932	9/25/2023	6 - 10	0.79 U	**19**	0.37 U	**79**
		11 - 15	0.79 U	**410**	**2.4**	**360**
		16 - 20	0.79 U	**10,000**	**210**	**1,400**
		23 - 27	0.79 U	**780**	**8.7**	**100**
		32 - 36	0.79 U	**1.1**	0.37 U	0.43 U
		36 - 40	0.79 U	0.46 U	0.37 U	0.43 U
DPT0933	9/25/2023	6 - 10	0.79 U	0.46 U	0.37 U	**23**
		11 - 15	0.79 U	**34**	0.37 U	**100**
		16 - 20	0.79 U	**7,600**	**220**	**3,100**
		23 - 27	0.79 U	**850**	**8.8**	**170**
		32 - 36	0.79 U	**2.0**	**0.46 I**	0.43 U
		36 - 40	0.79 U	0.46 U	0.37 U	0.43 U
DPT0934	9/25/2023	6 - 10	0.79 U	**40**	0.37 U	**55**
		11 - 15	0.79 U	**63**	0.37 U	**97**
		16 - 20	0.79 U	**95**	**0.47 I**	**120**
		23 - 27	0.79 U	**63**	**1.5**	**51**
		32 - 36	0.79 U	**5.1**	0.37 U	**13**
		36 - 40	0.79 U	0.46 U	0.37 U	0.43 U

Table 2-1. DPT Groundwater Analytical Results (continued)

Sample Location (LC34-)	Sample Date	Sample Depth Interval (feet bls)	TCE	cDCE	tDCE	VC
DPT0935	9/26/2023	6 - 10	0.79 U	**19**	0.37 U	**25**
		11 - 15	0.79 U	**29**	0.37 U	**44**
		16 - 20	0.79 U	**97**	0.37 U	**83**
		23 - 27	0.79 U	**80**	**1.3**	**73**
		32 - 36	0.79 U	**66**	**0.79 I**	**74**
		36 - 40	0.79 U	**9.4**	0.37 U	**4.6**
DPT0936	9/26/2023	6 - 10	0.79 U	**23**	0.37 U	**38**
		11 - 15	0.79 U	**210**	**1.2**	**170**
		16 - 20	0.79 U	**1,000**	**30**	**1,100**
		23 - 27	0.79 U	**35**	**17**	**5,200**
		32 - 36	0.79 U	**4.3**	0.37 U	**82**
		36 - 40	0.79 U	0.46 U	0.37 U	**2.4**
DPT0937	9/26/2023	6 - 10	0.79 U	**28**	0.37 U	**58**
		11 - 15	0.79 U	**320**	0.37 U	**310**
		16 - 20	0.79 U	**700**	**42**	**2,100**
		23 - 27	0.79 U	**2.4**	**440**	**9,500**
		32 - 36	4.0 U	**4.3 I**	1.8 U	**420**
		36 - 40	0.79 U	0.46 U	0.37 U	0.43 U
DPT0938	9/26/2023	6 - 10	0.20 U	**38**	0.34 U	**45**
		11 - 15	0.20 U	**24**	0.34 U	**38**
		16 - 20	1.0 U	**90**	**1.9 I**	**620**
		23 - 27	10 U	**15 I**	**25 I**	**4,800**
		32 - 36	0.20 U	**22**	0.34 U	**33**
		36 - 40	0.20 U	0.25 U	0.34 U	0.40 U
DPT0939	9/26/2023	6 - 10	2.0 U	**390**	3.4 U	**1,200**
		11 - 15	1.0 U	**260**	1.7 U	**570**
		16 - 20	2.0 U	**1,200**	**34**	**900**
		23 - 27	4.0 U	**32**	**110**	**3,700**
		32 - 36	0.40 U	**20**	**3.2**	**180**
		36 - 40	0.20 U	0.25 U	0.34 U	0.40 U
DPT0940	9/27/2023	6 - 10	0.20 U	**0.72 I**	0.34 U	**2.0**
		11 - 15	0.20 U	**1.3**	0.34 U	**4.9**
		16 - 20	0.20 U	**2.4**	0.34 U	**3.5**
		23 - 27	0.20 U	**5.7**	0.34 U	**4.1**
		32 - 36	0.20 U	0.25 U	0.34 U	0.40 U
		36 - 40	0.20 U	0.25 U	0.34 U	0.40 U
DPT0941	9/27/2023	6 - 10	0.20 U	**9.5**	0.34 U	**13**
		11 - 15	0.40 U	**7.1**	0.68 U	**290**
		16 - 20	2.0 U	2.5 U	**4.3 I**	**1,100**
		23 - 27	2.0 U	2.5 U	3.4 U	**1,000**
		32 - 36	0.20 U	**2.5**	0.34 U	**1.8**
		36 - 40	0.20 U	0.25 U	0.34 U	0.40 U

Table 2-1. DPT Groundwater Analytical Results (continued)

Sample Location (LC34-)	Sample Date	Sample Depth Interval (feet bls)	TCE	cDCE	tDCE	VC
DPT0942	9/27/2023	6 - 10	0.20 U	**8.2**	0.34 U	**13**
		11 - 15	0.20 U	**13**	0.34 U	**24**
		16 - 20	0.20 U	**11**	0.34 U	**16**
		23 - 27	4.0 U	5.0 U	**93**	**1,200**
		32 - 36	0.20 U	**2.9**	0.34 U	**16**
		36 - 40	0.20 U	0.25 U	0.34 U	0.40 U
DPT0943	9/27/2023	6 - 10	0.20 U	**4.8**	**0.74 I**	**7.6**
		11 - 15	0.20 U	**21**	0.34 U	**31**
		16 - 20	0.20 U	**7.2**	0.34 U	**16**
		23 - 27	0.20 U	**10**	**1.1**	**41**
	9/28/2023	32 - 36	2.0 U	**5.3 I**	**60**	**1,200**
		36 - 40	0.20 U	**21**	0.34 U	**12**
	10/26/2023	36 - 40	0.20 U	**110**	**2.3**	**68**
		41 - 45	0.20 U	0.25 U	0.34 U	0.40 U
DPT0944	9/27/2023	6 - 10	0.20 U	**20**	0.34 U	**28**
		11 - 15	0.20 U	**180**	**1.9**	**170**
		16 - 20	1.0 U	**360**	**2.1 I**	**230**
		23 - 27	0.20 U	**11**	**0.96 I**	**31**
	9/28/2023	32 - 36	2.0 U	**7.9 I**	**27**	**900**
		36 - 40	0.20 U	**37**	0.34 U	**18**
	10/26/2023	36 - 40	0.20 U	**26**	0.34 U	**23**
		41 - 45	0.20 U	0.25 U	0.34 U	0.40 U
DPT0945	9/28/2023	6 - 10	0.20 U	**23**	0.34 U	**36**
		11 - 15	0.20 U	**26**	0.34 U	**43**
		16 - 20	0.20 U	**79**	0.34 U	**88**
		23 - 27	0.20 U	**16**	**0.38 I**	**23**
		32 - 36	0.20 U	**7.5**	**15**	**17**
		36 - 40	0.20 U	**0.55 I**	0.34 U	0.40 U
DPT0946	9/28/2023	6 - 10	0.20 U	**16**	0.34 U	**32**
		11 - 15	0.20 U	**16**	0.34 U	**48**
		16 - 20	0.20 U	**60**	**0.86 I**	**96**
		23 - 27	0.20 U	**3.9**	0.34 U	**5.7**
		32 - 36	0.20 U	**120**	**10**	**200**
		36 - 40	0.20 U	**67**	**0.59 I**	**17**
	10/27/2023	36 - 40	0.20 U	**10**	0.34 U	0.40 U
		41 - 45	0.20 U	0.25 U	0.34 U	0.40 U
DPT0947	9/28/2023	6 - 10	0.20 U	**26**	**0.56 I**	**38**
		11 - 15	0.20 U	**36**	**0.47 I**	**54**
		16 - 20	0.20 U	**120**	**0.47 I**	**130**
		23 - 27	0.40 U	**190**	**3.0**	**89**
		32 - 36	0.20 U	**0.35 I**	0.34 U	**2.6**
		36 - 40	0.20 U	0.25 U	0.34 U	0.40 U

Table 2-1. DPT Groundwater Analytical Results (continued)

Sample Location (LC34-)	Sample Date	Sample Depth Interval (feet bls)	TCE	cDCE	tDCE	VC
DPT0948	9/28/2023	6 - 10	0.20 U	**24**	**0.41 I**	**42**
		11 - 15	0.20 U	**53**	0.34 U	**71**
		16 - 20	1.0 U	**300**	**2.3 I**	**140**
		23 - 27	0.20 U	**170**	**6.3**	**570**
		32 - 36	0.20 U	**30**	**0.42 I**	**33**
		36 - 40	0.20 U	**5.3**	0.34 U	**0.76 I**
DPT0949	9/27/2023	6 - 10	0.20 U	0.25 U	0.34 U	0.40 U
		11 - 15	0.20 U	**29**	0.34 U	**47**
		16 - 20	1.0 U	**490**	**3.8 I**	**260**
		23 - 27	5.0 U	**1,100**	**46**	**2,700**
	9/28/2023	32 - 36	0.40 U	0.50 U	**47**	**600**
		36 - 40	0.20 U	0.25 U	**13**	**36**
	10/26/2023	36 - 40	0.20 U	0.25 U	0.34 U	0.40 U
		41 - 45	0.20 U	0.25 U	0.34 U	0.40 U
DPT0950	9/28/2023	6 - 10	0.20 U	**84**	0.34 U	**130**
		11 - 15	0.20 U	**150**	**0.45 I**	**130**
		16 - 20	1.0 U	**300**	**2.4 I**	**170**
		23 - 27	0.20 U	**2.6**	**150**	**460**
		32 - 36	1.0 U	**4.7 I**	**37**	**660**
		36 - 40	0.20 U	**0.34 I**	0.34 U	**0.83 I**
DPT0951	10/2/2023	6 - 10	0.20 U	**53**	**0.42 I**	**86**
		11 - 15	0.20 U	**56**	**0.37 I**	**120**
		16 - 20	0.20 U	**83**	**0.55 I**	**140**
		23 - 27	0.20 U	**5.9**	0.34 U	**55**
		32 - 36	2.0 U	**5.1 I**	**36**	**890**
		36 - 40	0.20 U	0.25 U	0.34 U	**2.7**
DPT0952	10/2/2023	6 - 10	0.20 U	**44**	**0.36 I**	**74**
		11 - 15	0.20 U	**38**	0.34 U	**60**
		16 - 20	0.20 U	**37**	0.34 U	**77**
		23 - 27	0.40 U	**5.5**	0.68 U	**170**
		32 - 36	5.0 U	**6.3 I**	**37**	**3,500**
		36 - 40	0.20 U	**0.27 I**	0.34 U	**13**
	10/26/2023	36 - 40	0.20 U	**0.34 I**	0.34 U	**18**
		41 - 45	0.20 U	0.25 U	0.34 U	0.40 U
DPT0953	10/2/2023	6 - 10	0.20 U	**21**	0.34 U	**54**
		11 - 15	0.20 U	**17**	0.34 U	**44**
		16 - 20	0.20 U	**51**	0.34 U	**72**
		23 - 27	10 U	**18 I**	**29 I**	**3,700**
		32 - 36	5.0 U	**35**	8.5 U	**2,500**
		36 - 40	0.20 U	**0.88 I**	0.34 U	**1.1**

Table 2-1. DPT Groundwater Analytical Results (continued)

Sample Location (LC34-)	Sample Date	Sample Depth Interval (feet bls)	TCE	cDCE	tDCE	VC
DPT0954	10/3/2023	6 - 10	0.20 U	**19**	0.34 U	**150**
		11 - 15	2.0 U	**220**	**5.6 I**	**960**
		16 - 20	20 U	**5,700**	**180**	**6,000**
		23 - 27	2.0 U	**500**	**3.8 I**	**270**
		32 - 36	0.20 U	**0.57 I**	0.34 U	0.40 U
		36 - 40	0.20 U	**0.26 I**	0.34 U	0.40 U
DPT0955	10/3/2023	6 - 10	0.20 U	**73**	**1.1**	**160**
		11 - 15	1.0 U	**340**	**1.7 I**	**470**
		16 - 20	10 U	**2,300**	**59**	**1,900**
		23 - 27	100 U	**23,000**	**440 I**	**8,000**
		32 - 36	50 U	**8,600**	**97 I**	**3,100**
		36 - 40	0.20 U	**3.4**	0.34 U	**1.0**
DPT0956	10/3/2023	6 - 10	0.40 U	**72**	**1.9 I**	**29**
		11 - 15	0.40 U	**210**	**2.5**	**250**
		16 - 20	5.0 U	**780**	**12 I**	**320**
		23 - 27	20 U	**3,500**	**71 I**	**1,300**
		32 - 36	2.0 U	**440**	**4.7 I**	**140**
		36 - 40	0.20 U	**0.84 I**	0.34 U	**0.71 I**
DPT0957	10/3/2023	6 - 10	0.20 U	**73**	**1.1**	**24**
		11 - 15	0.20 U	**77**	0.34 U	**140**
		16 - 20	0.40 U	**84**	0.68 U	**290**
		23 - 27	1.0 U	**1,600**	**34**	**1,200**
		32 - 36	0.40 U	**350**	**9.3**	**340**
		36 - 40	0.20 U	**0.36 I**	0.34 U	**0.40 I**
DPT0958	10/3/2023	6 - 10	0.20 U	**19**	0.34 U	**10**
		11 - 15	0.20 U	**19**	0.34 U	**50**
	10/4/2023	16 - 20	0.20 U	**44**	0.34 U	**96**
		23 - 27	1.0 U	**480**	**4.9 I**	**690**
		32 - 36	5.0 U	**120**	8.5 U	**3,100**
		36 - 40	2.0 U	**40**	3.4 U	**3,200**
	10/23/2023	36 - 40	2.0 U	**43**	3.4 U	**1,400**
		41 - 45	0.40 U	**44**	0.68 U	**120**
DPT0959	10/4/2023	6 - 10	0.20 U	**10**	0.34 U	**11**
		11 - 15	0.20 U	**24**	0.34 U	**35**
		16 - 20	0.20 U	**41**	**0.48 I**	**60**
		23 - 27	0.40 U	**350**	**3.6**	**360**
		32 - 36	5.0 U	**1,600**	8.5 U	**820**
		36 - 40	0.20 U	**240**	0.34 U	**17**
	10/23/2023	36 - 40	2.0 U	**1,200**	3.4 U	**200**
		41 - 45	0.20 U	**7.7**	0.34 U	**0.40 I**

Table 2-1. DPT Groundwater Analytical Results (continued)

Sample Location (LC34-)	Sample Date	Sample Depth Interval (feet bls)	TCE	cDCE	tDCE	VC
DPT0960	10/4/2023	6 - 10	0.20 U	**1.4**	0.34 U	**6.5**
		11 - 15	0.20 U	**4.4**	0.34 U	**44**
		16 - 20	0.20 U	**22**	0.34 U	**41**
		23 - 27	5.0 U	**930**	**9.1 I**	**1,800**
		32 - 36	0.20 U	**1.6**	**2.5**	**3,600**
		36 - 40	0.20 U	**24**	0.34 U	**2,300**
	10/23/2023	36 - 40	5.0 U	6.3 U	8.5 U	**2,300**
		41 - 45	0.20 U	**36**	0.34 U	**39**
DPT0961	10/4/2023	6 - 10	0.20 U	**2.3**	0.34 U	**7.8**
		11 - 15	0.20 U	**10**	0.34 U	**26**
		16 - 20	0.20 U	**180**	**6.1**	**480**
		23 - 27	2.0 U	**960**	**8.1 I**	**350**
		32 - 36	1.0 U	**3,600**	**10**	**480**
		36 - 40	0.20 U	**800**	**0.55 I**	**15**
	10/23/2023	36 - 40	1.0 U	**600**	1.7 U	**7.6**
		41 - 45	0.20 U	0.25 U	0.34 U	0.40 U
DPT0962	10/4/2023	6 - 10	0.20 U	**2.7**	0.34 U	**1.9**
		11 - 15	0.20 U	**12**	0.34 U	**10**
		16 - 20	0.20 U	**94**	**1.7**	**48**
		23 - 27	1.0 U	**710**	**8.7**	**610**
	10/5/2023	32 - 36	5.0 U	**360**	8.5 U	**2,400**
		36 - 40	5.0 U	**320**	8.5 U	**890**
	10/23/2023	36 - 40	1.0 U	**76**	1.7 U	**350**
		41 - 45	0.20 U	**2.9**	0.34 U	**52**
DPT0963	10/5/2023	6 - 10	0.20 U	**1.4**	0.34 U	**2.0**
		11 - 15	0.20 U	**12**	0.34 U	**94**
		16 - 20	0.20 U	**63**	**3.1**	**360**
		23 - 27	0.40 U	**30**	**4.2**	**350**
		32 - 36	5.0 U	**3,100**	**15 I**	**3,100**
		36 - 40	1.0 U	**2,500**	**1.7 I**	**53**
	10/23/2023	36 - 40	5.0 U	**1,700**	8.5 U	**930**
		41 - 45	0.20 U	**170**	0.34 U	**1.2**
DPT0964	10/5/2023	6 - 10	0.20 U	**4.8**	0.34 U	**9.6**
		11 - 15	0.20 U	**140**	**2.4**	**72**
		16 - 20	0.20 U	**510**	**9.5**	**210**
		23 - 27	2.0 U	**1,900**	**53**	**480**
		32 - 36	0.20 U	**79**	0.34 U	**0.97 I**
		36 - 40	0.20 U	**0.63 I**	0.34 U	0.40 U

Table 2-1. DPT Groundwater Analytical Results (continued)

Sample Location (LC34-)	Sample Date	Sample Depth Interval (feet bls)	TCE	cDCE	tDCE	VC
DPT0965	10/5/2023	6 - 10	0.20 U	**13**	**1.2**	**1.1**
		11 - 15	0.20 U	**10**	**0.34 I**	**130**
		16 - 20	4.0 U	**190**	6.8 U	**1,200**
		23 - 27	**13 I**	**130**	**24 I**	**3,200**
		32 - 36	**10 I**	13 U	17 U	**3,200**
		36 - 40	4.0 U	**160**	6.8 U	**1,300**
	10/24/2023	36 - 40	2.0 U	**710**	3.4 U	**1,900**
		41 - 45	0.20 U	**190**	0.34 U	**36**
DPT0966	10/5/2023	6 - 10	**0.42 I**	**0.37 I**	0.34 U	0.40 U
		11 - 15	0.20 U	**1.7**	0.34 U	**27**
		16 - 20	0.20 U	**3.8**	0.34 U	**14**
		23 - 27	4.0 U	**52**	**6.9 I**	**890**
		32 - 36	0.40 U	**8.5**	**19**	**4,800**
		36 - 40	5.0 U	**11 I**	8.5 U	**2,400**
	10/24/2023	36 - 40	2.0 U	**3.5 I**	3.4 U	**1,500**
		41 - 45	1.0 U	**1.4 I**	1.7 U	**560**
DPT0967	10/6/2023	6 - 10	0.20 U	**0.38 I**	0.34 U	0.40 U
		11 - 15	**0.58 I**	**23**	**0.59 I**	**23**
		16 - 20	**0.28 I**	**69**	**1.7**	**82**
		23 - 27	2.0 U	**1,400**	**26**	**1,300**
		32 - 36	5.0 U	**2,700**	**12 I**	**760**
		36 - 40	1.0 U	**490**	1.7 U	**14**
	10/24/2023	36 - 40	**0.68 I**	**190**	0.68 U	**6.4**
		41 - 45	0.20 U	**2.0**	0.34 U	0.40 U
DPT0968	10/6/2023	6 - 10	**0.32 I**	**1.6**	0.34 U	0.40 U
		11 - 15	**1.2**	**6.9**	0.34 U	**2.5**
		16 - 20	**0.33 I**	**72**	**1.3**	**18**
		23 - 27	5.0 U	**2,300**	**39**	**1,500**
		32 - 36	2.0 U	**1,300**	3.4 U	**150**
		36 - 40	0.20 U	**48**	0.34 U	**2.9**
DPT0969	10/6/2023	6 - 10	0.20 U	**8.1**	0.34 U	**9.1**
		11 - 15	0.20 U	**19**	0.34 U	**27**
		16 - 20	0.20 U	**78**	0.34 U	**130**
		23 - 27	10 U	**3,500**	**130**	**820**
		32 - 36	**470**	**58,000**	**2,100**	**9,600**
		36 - 40	**50 I**	**21,000**	**290**	**3,700**
	10/24/2023	36 - 40	20 U	**13,000**	**130**	**2,300**
		41 - 45	0.20 U	**0.84 I**	0.34 U	0.40 U

Table 2-1. DPT Groundwater Analytical Results (continued)

Sample Location (LC34-)	Sample Date	Sample Depth Interval (feet bls)	TCE	cDCE	tDCE	VC
DPT0970	10/9/2023	6 - 10	0.20 UQ	**14 Q**	0.34 UQ	**21 Q**
		11 - 15	0.20 UQ	**72 Q**	**0.91 IQ**	**150 Q**
		16 - 20	0.20 UQ	**8,800 Q**	**200 Q**	**2,200 Q**
		23 - 27	20 UQ	**42,000 Q**	**1,700 Q**	**12,000 Q**
		32 - 36	40 UQ	**27,000 Q**	**380 Q**	**8,800 Q**
		36 - 40	**16 IQ**	**2,300 Q**	17 UQ	20 UQ
	10/24/2023	36 - 40	1.0 U	**460**	1.7 U	**77**
		41 - 45	0.20 U	0.25 U	0.34 U	0.40 U
DPT0971	10/9/2023	6 - 10	0.20 UQ	**3.9 Q**	0.34 UQ	**5.7 Q**
		11 - 15	0.20 U	**7.2**	0.34 U	**47**
		16 - 20	1.0 UQ	**400 Q**	1.7 UQ	**380 Q**
		23 - 27	50 UQ	**29,000 Q**	**500 Q**	**5,800 Q**
		32 - 36	5.0 U	**17 I**	8.5 U	10 U
		36 - 40	0.20 UQ	**7.3 Q**	0.34 UQ	**1.0 Q**
DPT0972	10/9/2023	6 - 10	0.40 U	**0.79 I**	0.68 U	0.80 U
		11 - 15	0.20 UQ	**24 Q**	0.34 UQ	**68 Q**
		16 - 20	0.20 UQ	**16 Q**	0.34 UQ	**38 Q**
		23 - 27	0.20 UQ	**1.2 Q**	**1.0 Q**	**29 Q**
		32 - 36	0.20 U	**28**	0.34 U	**49**
		36 - 40	0.20 UQ	**0.28 IQ**	0.34 UQ	0.40 UQ
DPT0973	10/10/2023	6 - 10	0.20 U	**1.1**	0.34 U	**2.2**
		11 - 15	0.20 U	**13**	0.34 U	**20**
		16 - 20	0.20 U	**200**	0.34 U	**72**
		23 - 27	0.20 U	**66**	**1.8**	**31**
		32 - 36	0.20 U	**5.9**	0.34 U	**6.5**
		36 - 40	0.20 U	0.25 U	0.34 U	0.40 U
DPT0974	10/10/2023	6 - 10	0.20 U	**2.0**	0.34 U	**5.3**
		11 - 15	**0.23 I**	**16**	0.34 U	**25**
		16 - 20	0.20 U	**290**	**0.38 I**	**82**
		23 - 27	0.20 U	**1.8**	0.34 U	**2.7**
		32 - 36	0.20 U	**3.5**	0.34 U	0.40 U
		36 - 40	0.20 U	0.25 U	0.34 U	0.40 U
DPT0975	10/10/2023	6 - 10	0.20 U	**14**	0.34 U	**21**
		11 - 15	0.20 U	**31**	0.34 U	**43**
		16 - 20	0.20 U	**4.3**	0.34 U	**8.2**
		23 - 27	0.20 U	**2.4**	0.34 U	**61**
		32 - 36	0.20 U	**0.61 I**	0.34 U	0.40 U
		36 - 40	0.20 U	0.25 U	0.34 U	0.40 U
DPT0976	10/10/2023	6 - 10	0.20 U	**11**	0.34 U	**23**
		11 - 15	0.20 U	**35**	0.34 U	**90**
		16 - 20	0.20 U	**6.6**	0.34 U	**20**
		23 - 27	0.20 U	**13**	0.34 U	**34**
		32 - 36	0.20 U	0.25 U	0.34 U	0.40 U
		36 - 40	0.20 U	0.25 U	0.34 U	0.40 U

Table 2-1. DPT Groundwater Analytical Results (continued)

Sample Location (LC34-)	Sample Date	Sample Depth Interval (feet bls)	TCE	cDCE	tDCE	VC
DPT0977	10/10/2023	6 - 10	0.20 U	**0.69 I**	0.34 U	**2.6**
		11 - 15	0.20 U	**0.87 I**	0.34 U	**3.8**
		16 - 20	0.20 U	**2.7**	0.34 U	**9.5**
		23 - 27	0.20 U	**10**	0.34 U	**23**
		32 - 36	0.20 U	**0.78 I**	0.34 U	0.40 U
	10/11/2023	36 - 40	0.20 U	0.25 U	0.34 U	0.40 U
DPT0978	10/11/2023	6 - 10	0.20 U	**5.9**	0.34 U	**31**
		11 - 15	0.20 U	**2.6**	0.34 U	**15**
		16 - 20	0.20 U	**2.1**	0.34 U	**80**
		23 - 27	1.0 U	1.3 U	1.7 U	**420**
		32 - 36	0.20 U	**0.90 I**	0.34 U	**8.2**
		36 - 40	0.20 U	0.25 U	0.34 U	0.40 U
DPT0979	10/11/2023	6 - 10	0.20 U	**50**	0.34 U	**63**
		11 - 15	0.20 U	**28**	0.34 U	**120**
		16 - 20	2.0 U	**56**	3.4 U	**1,100**
		23 - 27	5.0 U	6.3 U	**71**	**4,600**
		32 - 36	0.20 U	**7.8**	0.34 U	**250**
		36 - 40	0.20 U	0.25 U	0.34 U	**0.97 I**
DPT0980	10/11/2023	6 - 10	0.20 U	**23**	0.34 U	**25**
		11 - 15	0.20 U	**20**	0.34 U	**31**
		16 - 20	0.20 U	**17**	0.34 U	**4.2**
		23 - 27	0.40 U	**190**	**3.4**	**370**
		32 - 36	0.40 U	**68**	0.68 U	**310**
		36 - 40	0.20 U	0.25 U	0.34 U	0.40 U
DPT0981	10/11/2023	6 - 10	0.20 U	**17**	0.34 U	**79**
		11 - 15	0.20 U	**43**	0.34 U	**120**
		16 - 20	0.20 U	**85**	**0.85 I**	**170**
		23 - 27	0.20 U	**13**	0.34 U	**65**
		32 - 36	0.20 U	0.25 U	0.34 U	0.40 U
		36 - 40	0.20 U	0.25 U	0.34 U	0.40 U
DPT0982	10/12/2023	6 - 10	0.20 U	**11**	0.34 U	**15**
		11 - 15	0.20 U	**9.2**	0.34 U	**18**
		16 - 20	1.0 U	**430**	**5.5**	**980**
		23 - 27	0.20 U	**4.3**	0.34 U	**19**
		32 - 36	0.20 U	**6.1**	0.34 U	**9.5**
		36 - 40	0.20 U	0.25 U	0.34 U	0.40 U
DPT0983	10/12/2023	6 - 10	0.20 U	**59**	0.34 U	**58**
		11 - 15	0.20 U	**47**	0.34 U	**78**
		16 - 20	0.40 U	**64**	0.68 U	**350**
		23 - 27	4.0 U	**6.6 I**	**150**	**2,900**
		32 - 36	0.40 U	**5.3**	0.68 U	**340**
		36 - 40	0.20 U	0.25 U	0.34 U	0.40 U

Table 2-1. DPT Groundwater Analytical Results (continued)

Sample Location (LC34-)	Sample Date	Sample Depth Interval (feet bls)	TCE	cDCE	tDCE	VC
DPT0984	10/12/2023	6 - 10	0.20 U	**15**	0.34 U	**23**
		11 - 15	1.0 U	**580**	**7.4**	**670**
		16 - 20	5.0 U	**1,000**	**120**	**3,800**
		23 - 27	0.20 U	**1.5**	**74**	**6,900**
		32 - 36	0.20 U	**2.8**	**0.44 I**	**200**
	10/13/2023	36 - 40	0.20 U	0.25 U	0.34 U	**30**
	10/26/2023	36 - 40	0.20 U	0.25 U	0.34 U	0.40 U
		41 - 45	0.20 U	0.25 U	0.34 U	0.40 U
DPT0985	10/13/2023	6 - 10	0.20 U	**30**	0.34 U	**53**
		11 - 15	0.20 U	**60**	0.34 U	**79**
		16 - 20	1.0 U	**400**	**7.1**	**440**
		23 - 27	2.0 U	2.5 U	3.4 U	**1,500**
		32 - 36	0.20 U	**16**	0.34 U	**79**
		36 - 40	0.20 U	0.25 U	0.34 U	0.40 U
DPT0986	10/13/2023	6 - 10	0.20 U	**42**	0.34 U	**54**
		11 - 15	0.20 U	**40**	0.34 U	**48**
		16 - 20	0.40 U	**200**	**2.0**	**110**
		23 - 27	0.20 U	**200**	**4.7**	**210**
		32 - 36	0.20 U	**21**	0.34 U	**79**
		36 - 40	0.20 U	0.25 U	0.34 U	0.40 U
DPT0987	10/13/2023	6 - 10	0.20 U	**43**	0.34 U	**57**
		11 - 15	0.20 U	**59**	0.34 U	**75**
		16 - 20	0.20 U	**120**	**0.49 I**	**120**
		23 - 27	0.20 U	**56**	**1.3**	**110**
		32 - 36	0.40 U	**230**	**1.1 I**	**72**
		36 - 40	0.20 U	**2.8**	0.34 U	**0.52 I**
DPT0988	10/16/2023	6 - 10	**0.41 I**	**0.52 I**	**0.71 I**	**1.6**
		11 - 15	0.40 U	**66**	0.68 U	**250**
		16 - 20	5.0 U	**3,000**	**63**	**1,900**
		23 - 27	2.0 U	**1,200**	**6.4 I**	**220**
		32 - 36	0.20 U	**16**	0.34 U	**1.1**
		36 - 40	0.20 U	**0.43 I**	0.34 U	0.40 U
DPT0989	10/16/2023	6 - 10	0.20 U	**3.8**	0.34 U	**25**
		11 - 15	**1.6 I**	**250**	1.7 U	**810**
		16 - 20	5.0 U	**1,700**	**21 I**	**690**
		23 - 27	1.0 U	**640**	1.7 U	**37**
		32 - 36	0.20 U	**0.72 I**	0.34 U	0.40 U
		36 - 40	0.20 U	0.25 U	0.34 U	0.40 U
DPT0990	10/16/2023	6 - 10	0.20 U	**8.2**	0.34 U	**74**
		11 - 15	5.0 U	**1,300**	**8.5 I**	**590**
		16 - 20	5.0 U	**1,600**	**11 I**	**290**
		23 - 27	1.0 U	**630**	1.7 U	**60**
		32 - 36	0.20 U	**1.4**	0.34 U	0.40 U
		36 - 40	0.20 U	**0.88 I**	0.34 U	0.40 U

Table 2-1. DPT Groundwater Analytical Results (continued)

Sample Location (LC34-)	Sample Date	Sample Depth Interval (feet bls)	TCE	cDCE	tDCE	VC
DPT0991	10/16/2023	6 - 10	0.20 U	**26**	0.34 U	**46**
		11 - 15	1.0 U	**300**	1.7 U	**570**
DPT0992	10/17/2023	6 - 10	0.20 U	0.25 U	0.34 U	**1.0**
		11 - 15	1.0 U	**140**	1.7 U	**470**
		16 - 20	5.0 U	**1,000**	8.5 U	**540**
		23 - 27	2.0 U	**840**	**7.6 I**	**170**
		32 - 36	0.40 U	**150**	0.68 U	**8.4**
		36 - 40	0.20 U	**0.53 I**	0.34 U	0.40 U
DPT0993	10/17/2023	6 - 10	0.20 U	**41**	0.34 U	**110**
		11 - 15	2.0 U	**160**	3.4 U	**280**
		16 - 20	2.0 U	**1,100**	**8.8 I**	**540**
		23 - 27	2.0 U	**1,200**	3.4 U	**300**
		32 - 36	0.20 U	**130**	0.34 U	**8.3**
		36 - 40	0.20 U	**0.67 I**	0.34 U	0.40 U
DPT0994	10/17/2023	6 - 10	**200**	**91**	**3.9 I**	2.0 U
		11 - 15	**83**	**66**	0.68 U	**10**
		16 - 20	**0.68 I**	**2.4**	0.34 U	**42**
		23 - 27	2.0 U	**9.6 I**	**10**	**1,600**
		32 - 36	10 U	**23 I**	17 U	**5,700**
		36 - 40	**10 I**	**15 I**	17 U	**4,200**
	10/24/2023	36 - 40	5.0 U	6.3 U	8.5 U	**2,700**
		41 - 45	1.0 U	**1.3 I**	1.7 U	**370**
DPT0995	10/17/2023	6 - 10	**35**	**2.8**	0.34 U	**0.44 I**
		11 - 15	**29**	**6.5**	0.34 U	**10**
		16 - 20	**3.8 I**	**500**	**15**	**1,400**
		23 - 27	**27 I**	**4,000**	**130**	**7,000**
		32 - 36	10 U	**250**	**24 I**	**6,800**
		36 - 40	2.0 U	**5.4 I**	3.4 U	**2,300**
	10/27/2023	36 - 40	4.0 U	**19 I**	6.8 U	**2,800**
		41 - 45	1.0 U	**5.7**	1.7 U	**670**
DPT0996	10/17/2023	6 - 10	**6.6**	**2.3**	0.34 U	**1.0**
		11 - 15	**8.7**	**3.6**	0.34 U	**2.2**
		16 - 20	**5.1**	**3.9**	0.34 U	**1.3**
	10/18/2023	23 - 27	0.20 U	**33**	**1.3**	**3.3**
		32 - 36	0.20 U	**160**	**21**	**180**
		36 - 40	10 U	**5,400**	**79**	**7,200**
	10/27/2023	36 - 40	5.0 U	**5,200**	**100**	**4,000**
		41 - 45	20 U	**14,000**	34 U	**8,300**
DPT1009	10/20/2023	6 - 10	0.20 U	**2.5**	0.34 U	**14**
		11 - 15	0.20 U	**5.2**	0.34 U	**43**
		16 - 20	1.0 U	**210**	1.7 U	**610**
		23 - 27	1.0 U	**170**	1.7 U	**730**
		32 - 36	5.0 U	**1,900**	**97**	**3,300**
		36 - 40	40 U	**33,000**	**560**	**8,000**

Table 2-1. DPT Groundwater Analytical Results (continued)

Sample Location (LC34-)	Sample Date	Sample Depth Interval (feet bls)	TCE	cDCE	tDCE	VC
DPT1010	10/23/2023	6 - 10	**0.53 I**	**0.69 I**	0.34 U	**0.50 I**
		11 - 15	0.20 U	**0.99 I**	0.34 U	**2.9**
		16 - 20	0.20 U	**2.0**	0.34 U	**3.6**
		23 - 27	0.20 U	**4.7**	0.34 U	**12**
		32 - 36	0.20 U	**22**	**0.98 I**	**87**
		36 - 40	40 U	**20,000**	**400**	**5,100**
DPT1011	10/24/2023	6 - 10	0.20 U	**18**	0.34 U	**51**
		11 - 15	0.20 U	**17**	0.34 U	**86**
		16 - 20	**6.1**	**280**	1.7 U	**440**
		23 - 27	**3.3 I**	**460**	**13**	**320**
		32 - 36	0.20 U	**2.6**	0.34 U	**3.0**
		36 - 40	0.20 U	0.25 U	0.34 U	0.40 U
DPT1012	10/25/2023	6 - 10	0.20 U	**16**	0.34 U	**40**
		11 - 15	1.0 U	**190**	1.7 U	**620**
		16 - 20	1.0 U	**150**	**2.6 I**	**890**
		23 - 27	0.20 U	**1.1**	0.34 U	**3.8**
		32 - 36	0.20 U	**3.6**	0.34 U	**180**
		36 - 40	0.20 U	0.25 U	0.34 U	0.40 U
DPT1013	10/25/2023	6 - 10	0.20 U	**11**	0.34 U	**38**
		11 - 15	0.20 U	**93**	0.34 U	**170**
		16 - 20	0.20 U	**100**	**0.75 I**	**150**
		23 - 27	0.20 U	**0.42 I**	0.34 U	**4.1**
		32 - 36	0.20 U	**2.8**	0.34 U	**59**
		36 - 40	0.20 U	0.25 U	0.34 U	0.40 U
DPT1014	10/25/2023	6 - 10	0.20 U	**10**	0.34 U	**35**
		11 - 15	0.20 U	**200**	**0.52 I**	**220**
		16 - 20	0.40 U	**190**	**3.3**	**340**
		23 - 27	0.20 U	**3.1**	0.34 U	**29**
		32 - 36	0.20 U	**250**	**0.51 I**	**16**
		36 - 40	0.20 U	**0.31 I**	0.34 U	0.40 U
DPT1015	10/25/2023	6 - 10	0.40 U	**180**	**0.77 I**	**25**
		11 - 15	0.20 U	**81**	**1.1**	**74**
		16 - 20	**1.2 I**	**18**	**9.0**	**28**
		23 - 27	1.0 UQ	**610 Q**	**13 Q**	**280 Q**
		32 - 36	0.40 U	**28**	0.68 U	**24**
		36 - 40	0.20 U	0.25 U	0.34 U	0.40 U
DPT1016	10/25/2023	6 - 10	0.20 U	**25**	0.34 U	**35**
		11 - 15	**0.31 I**	**190**	**2.7**	**56**
		16 - 20	1.0 U	**380**	**7.6**	**150**
		23 - 27	2.0 U	**980**	**4.9 I**	**68**
	10/26/2023	32 - 36	0.20 U	**90**	0.34 U	**73**
		36 - 40	0.20 U	0.25 U	0.34 U	0.40 U

Table 2-1. DPT Groundwater Analytical Results (continued)

Sample Location (LC34-)	Sample Date	Sample Depth Interval (feet bls)	TCE	cDCE	tDCE	VC
DPT1017	10/26/2023	6 - 10	0.20 U	**3.6**	0.34 U	**17**
		11 - 15	**2.1**	**160**	0.68 U	**79**
		16 - 20	0.20 U	**160**	**1.1**	**7.2**
		23 - 27	0.20 U	**30**	**0.55 I**	**38**
		32 - 36	**0.65 I**	**220**	0.68 U	**19**
		36 - 40	0.20 U	**1.6**	0.34 U	0.40 U
DPT1018	10/26/2023	6 - 10	0.20 U	**4.9**	0.34 U	**22**
		11 - 15	0.20 U	**25**	0.34 U	**60**
		16 - 20	0.40 U	**1.7 I**	0.68 U	**1.2 I**
		23 - 27	0.20 U	**4.6**	0.34 U	**61**
		32 - 36	0.20 U	**3.1**	0.34 U	**11**
		36 - 40	0.20 U	0.25 U	0.34 U	0.40 U

Notes:

DPT results are considered screening-level only and were reviewed in accordance with internal data review protocols; appropriate qualifiers were applied to the data as deemed necessary by the quality reviewer.

DPT locations, DPT0997 to DPT1008, were collected during the September-October 2023 DPT sampling event, but in a separate area of the site and unrelated to this HS investigation, and is therefore not included in this table.

Concentrations reported in micrograms per liter (µg/L)

Shading indicates > Groundwater Cleanup Target Level: TCE = 3 µg/L, cDCE = 70 µg/L, tDCE = 100 µg/L, and VC = 1 µg/L

TCE = Trichloroethene
cDCE = cis-1,2-Dichloroethene
tDCE = trans-1,2-Dichloroethene
VC = Vinyl chloride
I = Reported value is between method detection limit (MDL) and practical quantitation limit
L = Actual value is known to be greater than value given
Q = Sample held beyond the accepted holding time
U = Not detected at or above MDL (associated value)

SECTION III
INTERIM MEASURE SUMMARY

3.1 CONTAMINANTS OF CONCERN

A significant release and/or releases of TCE occurred at LC34 between the late 1950s to 1968. In the immediate vicinity of the ESB, the mass remaining nearly 40 years following the termination of launch activities was estimated to be approximately 90,000 pounds (NASA, 2009), resulting in a dissolved groundwater plume of TCE and daughter products (cDCE, tDCE, and VC) at concentrations exceeding GCTLs as specified in Chapter 62-777, Florida Administrative Code (F.A.C.). The dissolved-phase chlorinated volatile organic compound (CVOC) plume at LC34 encompasses approximately 327 acres and extends to a depth of approximately 98 feet bls in the DSZ but to shallower depths away from the DSZ.

HS 6 is located east of the DSZ, but on-going investigations have extended the footprint to the north and west of the DSZ. The current HS 6 AS treatment area covers approximately 26.9 acres and includes the initial IM (160 AS wells covering 8.2 acres, completed in 2018), first phase of expansion (140 AS wells covering 7.5 acres, completed in 2019), and second phase of expansion (190 AS wells covering 11.2 acres, completed in 2023). The primary COCs (those exceeding 10-times NADCs) for HS 6 are cDCE and VC. Based on the 2023 DPT investigations at Areas #1 and #2, cDCE and VC are the COCs present at 10-times NADCs in the proposed third phase of expansion. Groundwater results for the proposed expansion areas are illustrated on Figure A-4.

3.2 INTERIM MEASURE OBJECTIVE

The IM objective for the HS 6 expansion (phase three) is to remediate contaminated groundwater within the treatment zone to support transition to long-term monitoring. The objective was developed to provide an approach where certain metrics such as remedial performance, plume dynamics, and natural attenuation characteristics can be evaluated to determine an endpoint to the IM. The overall Corrective Action Objective for HS 6 is to reduce concentrations of COCs (cDCE and VC) from greater than 10-times Florida DEP NADCs to less than NADCs via AS. The overall Corrective Action Objective for the LC34

groundwater plume, as a whole, is to reduce concentrations of all groundwater contaminants to below GCTLs.

3.3 TECHNICAL APPROACH SUMMARY

Compressed air will be injected into the subsurface via one mechanical process system, a conveyance network, and an AS well network. The compressed air will be injected using diffusers to provide a fine bubble matrix to volatilize COCs into a gaseous form. As a secondary treatment mechanism, the AS application will increase the dissolved oxygen content of groundwater, promoting aerobic COC biodegradation.

For the third phase of expansion, a network of 192 AS wells will be installed and split into six treatment zones based on geographical proximity for pulse-treatment application. The zones will be supplied with compressed air from the AS system trailer that was installed in 2018 for the original HS 6 AS system. Details of the original investigation and conceptual design for the HS 6 AS IM are provided in the LC34 HS 6 Area of Investigation Site Characterization ADP (NASA, 2016). Of the 490 AS wells installed during the original implementation and subsequent expansions, 252 have been shut off as COC concentrations have been reduced to less than GCTLs. Therefore, the existing HS 6 AS trailer has the capacity to incorporate the additional 192 AS wells into existing operations.

For the phase three expansion, a distribution manifold trailer will be located within each expansion area to receive compressed air from the AS system via header piping. Distribution manifolds dedicated to each zone will be used for flow and pressure balancing and to distribute compressed air to the individual AS wells via dedicated lateral piping. Based on performance data from the existing HS 6 AS IM, a design radius of influence (ROI) of 25 feet on approximately 50-foot center-to-center spacing was assumed for placement of each well. All AS wells will be installed immediately above the shallow confining unit (Layer 4), at a depth of approximately 40 feet bls, identified during previous investigations. The location of the confining unit will be confirmed via soil cores. AS wells will be constructed with diffusers to distribute fine air bubbles within the treatment zone. The zones, dispersed from the distribution trailer, will be pulsed to minimize development of channels that could result in

preferential pathways and diminished AS removal efficiency. New monitoring wells will be installed in both Area #1 and Area #2 for performance monitoring.

Like the original HS 6 AS IM and expansions, soil vapor extraction is not proposed for the phase three expansion treatment area for two reasons: (1) The location of the treatment area is not near occupied surface structures or site personnel; and (2) The total estimated mass of 470 pounds (Areas #1 and #2 combined) is less than the Hazardous Air Pollutants (HAPs) annual emissions limit of 1,000 pounds for a single contaminant and 2,500 pounds for total contaminants. To confirm that the total air emissions do not exceed 5.5 pounds per day for any single HAP or 13.7 pounds per day for total HAPs (62-780[3][f], F.A.C), air monitoring will be conducted as discussed in Section 8.3. The estimated remediation timeframe for the phase three expansion area is more than one year. Potential emissions from all operating remediation systems at LC34 are not expected to exceed HAP emission limits either. Emissions from the HCS are treated by a catalytic oxidizer, which has shown high destruction efficiencies with the most recent CVOC emission rate (post-treatment) calculated to be 0.002 pounds per day (NASA, 2023). Within the original and first expansion HS 6 AS area, cDCE and VC concentrations have been reduced by 94% (NASA, 2023), with initial cDCE and VC mass estimates in this area (prior to system startup) of 1,500 pounds and 430 pounds, respectively (NASA, 2017b).

The following subsections describe the main components of the IM. Construction and installation details are further discussed under Section V of this IWP. This information was presented during the February 2024 KSCRT meeting as part of the Hot Spot 6 Area Expansion Phase Three Site Characterization and Implementation Work Plan ADP (NASA, 2024), which is attached as Appendix B. The Team reached consensus on the implementation of the phase 3 expansion of the Hot Spot 6 Air Sparging IM based on the ADP and submission of this Implementation Work Plan to Florida DEP (Meeting Minute 2402-M03, Decisions 2402-D04)

3.3.1 Air Sparging Wells. The 192 new AS wells will target 9.4 acres of HS concentrations (8.3 acres in Area #1 and 1.1 acres in Area #2). Well quantities per zone and design manifold pressures are presented in the following table.

	Zone	Number of AS Wells	Manifold Design Pressure (psig)
Area #1	15	34	36.4
	16	34	36.4
	17	34	36.4
	18	34	36.4
	19	34	36.4
Area #2	20	22	33.6

(psig = pounds per square inch gauge)

Because this phase three expansion will utilize the same AS system installed for the initial and subsequent phases of the HS 6 IM, the zone numbering begins at "15" since Zones 1 through 14 are already established. Design calculations for the manifold pressures are included in Appendix E.

Each AS well will be operated at a design air flowrate of 5 standard cubic feet per minute (scfm) and at a sufficient pressure to displace the water column within the AS well and provide air distribution. Wellhead design pressure for both areas is 21.4 psig. Final operational pressures will be established based on startup testing and performance monitoring.

AS well depth profiles across Areas #1 and #2 are presented on Figures A-6 through A-9. The existing compressor trailer, and proposed locations for distribution trailers and AS well locations for Areas #1 and #2, are presented on Figure A-10. The overall AS well layout (existing and proposed) over the HS 6 area is shown on Figure A-3. Installation details for AS wells are provided in Section 5.3.1. Table 3-1 provides a summary of the AS well construction information including depths, screened intervals, well materials, and manifold zones. Note, AS well numbers begin at "491" for this third phase of expansion, as AS wells 1 through 490 are already associated with the existing HS 6 treatment system.

3.3.2 Monitoring Wells. Twelve (12) new monitoring wells, with screened intervals ranging between 16 to 40 feet bls, will be installed and added to the existing HS 6 monitoring well network. Six of the wells will be installed within and just outside of Area #1 and the other six within and around Area #2 to monitor performance of the AS IM. Figure A-11 shows the proposed monitoring well locations and the locations of the existing wells that will

be used for performance monitoring. Table 3-2 provides a summary of monitoring well construction information including screened intervals and well materials. The monitoring wells will be appropriately named and numbered during field installation. Section 5.2 provides additional monitoring well installation details.

Table 3-1. Air Sparging Well Construction Details

Well ID (LC34-AS-)	Zone	Screen Interval* (feet bls)	Directional Boring/Angle (degrees)	Coordinates (meters)	
				Easting	Northing
491	19	38-40	No	242589.22	463702.53
492	19	38-40	No	242604.40	463701.18
493	19	38-40	No	242619.58	463699.84
494	19	38-40	No	242634.76	463698.49
495	19	38-40	No	242649.94	463697.15
496	19	38-40	No	242665.12	463695.80
497	19	38-40	No	242680.30	463694.45
498	19	38-40	No	242582.79	463716.35
499	19	38-40	No	242597.97	463715.00
500	19	38-40	No	242613.15	463713.66
501	19	38-40	No	242628.33	463712.31
502	19	38-40	No	242643.51	463710.97
503	19	38-40	No	242658.69	463709.62
504	19	38-40	No	242673.87	463708.27
505	19	38-40	No	242576.37	463730.17
506	19	38-40	No	242591.55	463728.82
507	19	38-40	No	242606.73	463727.48
508	19	38-40	No	242621.91	463726.13
509	19	38-40	No	242637.09	463724.78
510	19	38-40	No	242652.27	463723.44
511	18	38-40	No	242524.40	463748.02
512	18	38-40	No	242539.58	463746.68
513	19	38-40	No	242554.76	463745.33
514	19	38-40	No	242569.94	463743.99
515	19	38-40	No	242585.12	463742.64
516	19	38-40	No	242600.30	463741.30
517	19	38-40	No	242615.48	463739.95
518	19	38-40	No	242630.66	463738.60
519	19	38-40	No	242645.84	463737.26
520	18	38-40	No	242472.46	463765.91
521	18	38-40	No	242487.59	463764.49
522	18	38-40	No	242502.80	463763.19
523	18	38-40	No	242517.98	463761.84
524	18	38-40	No	242533.16	463760.50
525	19	38-40	No	242548.34	463759.15
526	19	38-40	No	242563.52	463757.81
527	19	38-40	No	242578.70	463756.46
528	19	38-40	No	242593.88	463755.11
529	19	38-40	No	242609.06	463753.77
530	19	38-40	No	242624.24	463752.42
531	19	38-40	No	242639.42	463751.08
532	18	38-40	No	242466.27	463779.75
533	18	38-40	No	242481.24	463778.39
534	18	38-40	No	242496.37	463777.01

Table 3-1. Air Sparging Well Construction Details (continued)

Well ID (LC34-AS-)	Zone	Screen Interval* (feet bls)	Directional Boring/Angle (degrees)	Coordinates (meters)	
				Easting	Northing
535	18	38-40	No	242511.55	463775.66
536	18	38-40	No	242526.73	463774.32
537	18	38-40	No	242541.91	463772.97
538	18	38-40	No	242557.09	463771.63
539	18	38-40	No	242572.27	463770.28
540	18	38-40	No	242587.45	463768.93
541	18	38-40	No	242602.63	463767.59
542	18	38-40	No	242617.81	463766.24
543	18	38-40	No	242632.99	463764.90
544	18	38-40	No	242648.17	463763.55
545	18	38-40	No	242474.76	463792.22
546	18	38-40	No	242489.94	463790.88
547	18	38-40	No	242505.13	463789.48
548	18	38-40	No	242520.31	463788.14
549	18	38-40	No	242535.49	463786.79
550	18	38-40	No	242550.67	463785.44
551	18	38-40	No	242565.85	463784.10
552	18	38-40	No	242581.03	463782.75
553	18	38-40	No	242596.21	463781.41
554	18	38-40	No	242611.39	463780.06
555	18	38-40	No	242626.57	463778.72
556	18	38-40	No	242641.75	463777.37
557	18	38-40	No	242656.93	463776.03
558	17	38-40	No	242438.15	463808.69
559	17	38-40	No	242453.32	463807.27
560	17	38-40	No	242468.56	463806.06
561	18	38-40	No	242483.74	463804.72
562	16	38-40	No	242498.64	463803.32
563	16	38-40	No	242513.82	463801.97
564	16	38-40	No	242529.00	463800.63
565	16	38-40	No	242544.18	463799.28
566	16	38-40	No	242559.36	463797.94
567	16	38-40	No	242574.54	463796.59
568	16	38-40	No	242589.72	463795.25
569	16	38-40	No	242604.90	463793.90
570	16	38-40	No	242620.14	463792.54
571	16	38-40	No	242635.32	463791.19
572	16	38-40	No	242650.51	463789.85
573	16	38-40	No	242665.69	463788.50
574	17	38-40	No	242446.83	463821.10
575	17	38-40	No	242462.07	463819.75

Table 3-1. Air Sparging Well Construction Details (continued)

Well ID (LC34-AS-)	Zone	Screen Interval* (feet bls)	Directional Boring/Angle (degrees)	Coordinates (meters)	
				Easting	Northing
576	17	38-40	No	242477.25	463818.41
577	17	38-40	No	242492.44	463817.16
578	17	38-40	No	242507.62	463815.81
579	16	38-40	No	242522.80	463814.46
580	16	38-40	No	242537.98	463813.12
581	16	38-40	No	242553.16	463811.77
582	16	38-40	No	242568.34	463810.43
583	16	38-40	No	242583.52	463809.08
584	16	38-40	No	242598.71	463807.74
585	16	38-40	No	242613.72	463806.36
586	16	38-40	No	242628.90	463805.01
587	16	38-40	No	242644.08	463803.66
588	16	38-40	No	242659.26	463802.32
589	16	38-40	No	242674.44	463800.97
590	17	38-40	No	242485.96	463830.85
591	17	38-40	No	242501.14	463829.50
592	17	38-40	No	242516.32	463828.16
593	17	38-40	No	242531.50	463826.81
594	16	38-40	No	242546.68	463825.47
595	16	38-40	No	242561.86	463824.12
596	16	38-40	No	242577.04	463822.77
597	16	38-40	No	242592.22	463821.43
598	16	38-40	No	242607.29	463820.18
599	16	38-40	No	242622.48	463818.83
600	16	38-40	No	242637.66	463817.48
601	16	38-40	No	242652.84	463816.14
602	16	38-40	No	242668.02	463814.79
603	16	38-40	No	242683.20	463813.45
604	17	38-40	No	242510.15	463842.07
605	17	38-40	No	242525.34	463840.72
606	17	38-40	No	242540.52	463839.38
607	16	38-40	No	242555.70	463838.03
608	15	38-40	No	242570.88	463836.68
609	15	38-40	No	242586.06	463835.34
610	15	38-40	No	242600.87	463833.99
611	15	38-40	No	242616.05	463832.65
612	15	38-40	No	242631.23	463831.30
613	15	38-40	No	242646.41	463829.96
614	15	38-40	No	242661.59	463828.61
615	15	38-40	No	242676.77	463827.27
616	15	38-40	No	242691.95	463825.92

Table 3-1. Air Sparging Well Construction Details (continued)

Well ID (LC34-AS-)	Zone	Screen Interval* (feet bls)	Directional Boring/Angle (degrees)	Coordinates (meters)	
				Easting	Northing
617	17	38-40	No	242534.21	463853.25
618	17	38-40	No	242549.39	463851.90
619	17	38-40	No	242564.57	463850.56
620	17	38-40	No	242579.75	463849.21
621	17	38-40	No	242594.44	463847.81
622	17	38-40	No	242609.63	463846.47
623	15	38-40	No	242624.81	463845.12
624	15	38-40	No	242639.99	463843.78
625	15	38-40	No	242655.17	463842.43
626	15	38-40	No	242670.35	463841.09
627	15	38-40	No	242685.53	463839.74
628	17	38-40	No	242542.90	463865.78
629	17	38-40	No	242558.08	463864.43
630	17	38-40	No	242618.38	463858.94
631	15	38-40	No	242633.56	463857.60
632	15	38-40	No	242648.74	463856.25
633	15	38-40	No	242663.92	463854.91
634	15	38-40	No	242679.10	463853.56
635	17	38-40	No	242627.14	463871.42
636	15	38-40	No	242642.32	463870.07
637	15	38-40	No	242657.50	463868.73
638	15	38-40	No	242672.68	463867.38
639	17	38-40	No	242635.89	463883.89
640	15	38-40	No	242651.07	463882.54
641	15	38-40	No	242666.25	463881.20
642	17	38-40	No	242629.47	463897.71
643	15	38-40	No	242644.65	463896.36
644	15	38-40	No	242659.83	463895.02
645	15	38-40	No	242675.01	463893.67
646	17	38-40	No	242638.22	463910.18
647	15	38-40	No	242653.40	463908.84
648	15	38-40	No	242668.58	463907.49
649	17	38-40	No	242646.98	463922.66
650	15	38-40	No	242662.16	463921.31
651	15	38-40	No	242677.34	463919.97
652	17	38-40	No	242655.73	463935.13
653	15	38-40	No	242670.91	463933.79
654	15	38-40	No	242686.09	463932.44
655	17	38-40	No	242664.49	463947.61
656	15	38-40	No	242679.67	463946.26
657	15	38-40	No	242694.85	463944.91

Table 3-1. Air Sparging Well Construction Details (continued)

Well ID (LC34-AS-)	Zone	Screen Interval* (feet bls)	Directional Boring/Angle (degrees)	Coordinates (meters)	
				Easting	Northing
658	17	38-40	No	242673.24	463960.08
659	17	38-40	No	242688.42	463958.73
660	17	38-40	No	242703.61	463957.39
661	20	38-40	No	243081.81	464017.97
662	20	38-40	No	243096.99	464016.62
663	20	38-40	No	243112.18	464015.27
664	20	38-40	No	243127.36	464013.93
665	20	38-40	No	243045.03	464034.48
666	20	38-40	No	243060.21	464033.13
667	20	38-40	No	243075.39	464031.78
668	20	38-40	No	243090.57	464030.44
669	20	38-40	No	243105.75	464029.09
670	20	38-40	No	243120.93	464027.75
671	20	38-40	No	243136.11	464026.40
672	20	38-40	No	243053.72	464046.97
673	20	38-40	No	243068.90	464045.62
674	20	38-40	No	243084.08	464044.28
675	20	38-40	No	243099.26	464042.93
676	20	38-40	No	243114.44	464041.59
677	20	38-40	No	243062.71	464059.46
678	20	38-40	No	243077.89	464058.11
679	20	38-40	No	243093.07	464056.77
680	20	38-40	No	243108.25	464055.42
681	20	38-40	No	243086.58	464070.46
682	20	38-40	No	243101.76	464069.12

bls - below land surface

*Final depth will be determined in the field based on soil borings to be above the shallow confining unit.

All wells will be 1-inch diameter, with 40-micron Schumasoil screens.

Coordinates are given in NAD 1983 State Plane Florida East (meters).

NAD - North American Datum.

Table 3-2. Monitoring Well Construction Details

Well Location*	Screen Depth (feet bls)	Well Diameter (inch)	Screen Type	Coordinates	
				Easting (meters)	Northing (meters)
A	16-21	1	0.010-inch slot	243029.497	464032.179
B	17-27	1	0.010-inch slot	243088.662	464037.860
	30-35	1	0.010-inch slot	243088.662	464037.860
C	16-21	1	0.010-inch slot	243130.793	464042.739
D	16-21	1	0.010-inch slot	243081.236	464084.041
E	16-21	1	0.010-inch slot	243101.448	464002.641
F	15-25	1	0.010-inch slot	242494.818	463796.163
G	29-34	1	0.010-inch slot	242525.682	463880.403
H	29-34	1	0.010-inch slot	242452.997	463783.094
I	29-34	1	0.010-inch slot	242563.822	463725.067
J	30-40	1	0.010-inch slot	242647.464	463845.302
K	30-40	1	0.010-inch slot	242581.596	463750.160

*Monitoring wells will be re-named and numbered, as appropriate, during field installation.
Coordinates are given in NAD 1983 State Plane Florida East (meters).
NAD - North American Datum.
bls - below land surface.

SECTION IV
PERMITTING REQUIREMENTS AND SITE PREPARATION

This section identifies the permitting requirements and necessary site preparations for implementation of this IWP.

The following will be completed prior to mobilization:

- Submittal of applications for access and identification badges;
- Submittal of required permits;
- Coordination of site reconnaissance activities through the NASA Remediation Project Manager (RPM); and
- Scheduling of utility location and clearances.

4.1 PERMIT REQUIREMENTS

IM activities at LC34 are being conducted under NASA's RCRA permit for KSC. All relevant requirements will be observed. Permits and associated requirements consist of the KSC Environmental Checklist, utility locate/excavation permit, monitoring well permits, and National Pollution Discharge Elimination System (NPDES) permit.

Copies of all permits relative to IM work will be retained on site and added to the field copy of this IWP in Appendix F as they are received. The Tetra Tech Construction Supervisor will be responsible for maintaining all required records for the duration of the project. After demobilization, permitting records will be maintained in Tetra Tech's Pittsburgh, Pennsylvania office. Copies of all permits received will also be included with construction completion documentation once phase three expansion is complete.

4.1.1 KSC Environmental Checklist. The NASA RPM submitted a KSC Environmental Checklist for this project in order to receive a KSC Record of Environmental Consideration (REC). The KSC REC lists environmental requirements associated with the project that must

be completed to assure compliance with all applicable environmental regulations. The REC for phase three expansion was received on March 21, 2024.

4.1.2 Site Planning Authorization. A Site Plan has not been requested by CCSFS personnel. If a Site Plan is required, a Site Plan request will be submitted before field activities begin. A copy of the Site Plan will be included in the construction completion documentation, if required.

4.1.3 AF Base Civil Engineer Work Request. Because LC34 is located at CCSFS, the NASA RPM submitted a Base Civil Engineer Work Request (AF Form 332) to the Air Force for this project. The AF Form 332 identifies any project requirements (i.e., dig permit, environmental impact analysis, etc.) necessary to complete the project. The approved AF Form 332 was received on March 12, 2024.

4.1.4 Utility Locate/Dig Permit. A Utility Locate/Dig Permit (Base Civil Engineering Work Clearance Request, AF Form 103) was submitted to CCSFS personnel prior to any excavation activity (e.g., intrusive surveying, drilling, or trenching). The excavation inspectors will be contacted in advance of anticipated drilling or trenching activities to schedule utility clearance for the specific activity. Excavation will not occur on “no dig days” unless a “dig waiver” is granted. Tetra Tech will apply for a “dig waiver” following utility clearance, as necessary. The Tetra Tech Site Manager will contact the duty office for “no dig day” forecasts. The approved AF Form 103 was received on March 22, 2024.

4.1.5 Threatened and Endangered Species Survey. The project has the potential to impact protected and/or threatened and endangered species, specifically the gopher tortoise and Florida beach mouse. A biological survey will be performed by KSC personnel prior to commencement of field activities. Measures required to protect endangered or threatened species or species of special concern will be implemented as appropriate. If any protected wildlife is spotted within the construction area once field activities commence, or if a burrow is observed within 25 feet of an excavation area, Tetra Tech will immediately contact the KSC wildlife ecologist for support to safely remove the animal(s) from the site. Tetra Tech will abide by the Reasonable and Prudent Measures necessary to minimize incidental take as

required by the Biological Opinion for the NASA AS System at CCSFS dated June 22, 2022, as stated in the REC.

4.1.6 Well Permits. Permit applications will be submitted by the drilling subcontractor to St. Johns River Water Management District and Brevard County for each well installed.

4.1.7 NPDES Permit. A NPDES permit, specifically a NPDES Construction Activity Permit/Notice of Intent (NOI) to Use Generic Permit for Stormwater Discharge, is required for proposed site construction activities based on the areas that will be disturbed by construction. Although 9.4 acres of groundwater will be treated by the third phase of AS expansion, the estimated area of land disturbance is only 1.3 acres to complete construction activities, such as trenching. A Storm Water Pollution Prevention Plan (SWPPP) is also required and is included as Appendix G. The NOI will be submitted to the State of Florida NPDES Stormwater Program. Implementation of appropriate pollution prevention techniques to minimize erosion and sedimentation and properly manage stormwater will be conducted in accordance with the SWPPP and best management practices (BMPs). Following demobilization and stabilization of the soil, a Notice of Termination (NOT) will be submitted to Florida DEP.

4.1.8 Air Permit. HAPs emitted during treatment operations are covered under the current KSC Title V Air Operation Permit. Based on mass estimates for cDCE and VC in the phase three expansion area (total mass of 470 pounds) and estimated remedial timeframe of more than one year, emissions are estimated to be less than the allowable annual emissions from remediation activities, which are 1,000 pounds per year for individual HAPs and 2,500 pounds per year for total HAPs. Freon was not detected in either of the expansion areas (Area #1 or Area #2). Additionally, as discussed in Section 3.3, potential emissions from all operating remediation systems at LC34 are not expected to exceed annual HAP emission limits. To confirm that the total air emissions do not exceed 5.5 pounds per day for any single HAP or 13.7 pounds per day for total HAPs (62-780[3][f], F.A.C), vertical vapor monitoring points will be installed as described in Section 5.3.4, and air monitoring will be conducted as discussed in Section 8.3.

4.1.9 Hot Work. Hot Work permits may be required if open flame and heat-producing devices are used, if welding or cutting operations are necessary, if flammable materials are stored on site, or if any spark-producing activity occurs. Permitting requirements will be coordinated through NASA, if necessary, via submission of a Hot Work permit request. Previous HDPE socket fusion welding conducted at CCSFS and KSC has not required a Hot Work Permit.

4.1.10 Wetlands Survey. A wetlands survey may be required to ensure no wetlands are present within the proposed phase three expansion area. Wetlands surveys were conducted by a KSC biologist for the original HS 6 AS installation completed in 2018, first phase of expansion completed in 2019, and second phase of expansion completed in 2023. No wetlands permits have been needed for the AS IM to date. The 2022 Biological Opinion did not identify wetlands within the phase 3 expansion area. The absence of wetlands will be confirmed during the Threatened and Endangered Species survey.

4.2 PROJECT SUPPORT AREA

Based on the extent of field activities associated with this project, only a limited project support area will be required as part of mobilization activities. The project support area will consist of a decontamination pad, chemical toilet, and temporary office/storage trailer. Water used for decontamination of drilling equipment will be supplied by an on-site water source (hydrant) and transported by the drilling subcontractor**.**

The Tetra Tech Merritt Island, Florida office will be used as an alternative support area. On-site communications will be provided by cellular telephones and radios.

4.3 STAKEOUT SURVEY

Prior to utility clearance by the excavation inspectors, a stake-out survey will be conducted to demarcate areas of proposed penetration and intrusive work. The survey will mark new monitoring well and AS well locations with flush-mounted wooden hubs.

SECTION V
INTERIM MEASURE IMPLEMENTATION

5.1 TECHNOLOGY DESCRIPTION

The IM will generally consist of diffused air injection within an array of AS wells installed at appropriate locations and depths within the plume containing concentrations of TCE daughter products greater than 10-times Florida DEP NADCs. AS involves injection of air into an aquifer to promote the short-term volatilization of CVOCs and long-term aerobic biodegradation of residual CVOCs.

5.2 MONITORING WELL INSTALLATION

This section discusses the activities to be conducted for installation of the 12 new monitoring wells that will be part of the AS performance monitoring network for the phase three expansion. The monitoring wells will be installed with screened intervals ranging from 16 to 40 feet bls depending on their location. Monitoring well locations are shown on Figure A-11, and typical construction details are presented on Figure A-12. The wells will be installed in accordance with Section 4.5 of the KSC Sampling and Analysis Plan (SAP) for the RCRA Corrective Action Program (NASA, 2017a). The Tetra Tech geologist/field engineer will be responsible for direction of the Florida-licensed drilling subcontractor, monitoring of drilling operations, logging, and recording well installation and decontamination procedures. A well completion log, included in Appendix H, will be completed during installation of each monitoring well.

The monitoring wells will be installed with 1-inch inside diameter (I.D.) Schedule 40 polyvinyl chloride (PVC) casings using sonic drilling technology. Casing sections will be flush-joint threaded with neoprene O-rings on the male threaded ends to render the joints watertight. Each well screen will be either 5 or 10 feet in length (see Table 3-2) and consist of 1-inch I.D. Schedule 40 PVC with a screen slot size of 0.010 inch. Wastes generated by monitoring well installation will be handled in accordance with Section 9.1 of this IWP.

Monitoring Well Annular Space Construction: The filter pack will be pre-packed silica sand of American Society of Testing and Materials (ASTM) gradation 20/30. Initially, the well casing and screen will be suspended using a winch line on the drilling rig and then the sand will be poured into the annulus at a rate to avoid sand bridging. The filter pack will be placed within each annulus in a way to ensure that the sand is evenly distributed throughout the screened interval. From the top of each screen to 2 feet above the screen, a fine sand seal will be installed with sand of ASTM gradation 30/65. The geologist/field engineer will consult with the driller to confirm the appropriate volume of sand required to fill the borehole annulus at each location. As sand is being placed, the driller will confirm the depth to sand as well as the overall sand volume required to construct the filter pack. A bentonite seal will be installed from the top of the fine sand seal to 2 feet bls and will be composed of a cement slurry grout mixed in the following proportions by volume:

- Portland Cement – 6.5 to 7 gallons of water per 94-pound bag; and
- Bentonite Powder – Not more than 4 pounds per 94-pound bag of Portland cement.

The grout will be mixed to a uniform consistency, and the slurry mix will be confirmed using an appropriate mud scale. The grout will be allowed to set for a minimum of 24 hours before surface completion. All monitoring well installations will be completed by a Florida-licensed driller. Following installation of the monitoring wells, each well will be developed via surging and evacuation until clear to remove drilling fluids and suspended solids.

Monitoring Well Surface Completion: Surface completions will include a flush-mounted well cover, metal locking riser cap, and 2-foot by 2-foot concrete pad. Surface completions will all be flush-mounted in order to prevent any constraints to CCSFS prescribed burning activities within the LC34 land management unit. As necessary, bollards may be installed to protect and more easily locate flush-mounted wells. The bollards will be at least 3 inches in diameter, 6 feet in total length, recessed 3 feet below ground level, set in concrete, and filled with concrete. Bollards will be placed around the pads with spacing that prevents vehicles from driving on the pads, and will also be corrosion-resistant and fireproof for protection during prescribed burning. Locations of new wells will be made available to Space Launch

Delta 45, Civil Engineering, Natural Assets Group (45 CES/CEIE). Well identification tags will be provided in accordance with Florida DEP Standard Operating Procedures (SOPs).

5.3 AIR SPARGING SYSTEM INSTALLATION

This section discusses the installation of the AS network expansion activities to be performed, including installation of AS wells, piping, and new distribution trailers for the HS 6 phase three AS network. Headers for the new AS wells will be connected to the existing HS 6 AS system compressor trailer that is currently operating. The existing AS system trailer, equipment, and utilities were installed during original HS 6 system construction in June 2018.

5.3.1 Air Sparging Well Installation. A total of 192, 1-inch diameter AS wells will be installed using sonic methods to depths identified in Table 3-1 and at the locations shown on Figure A-10. The termination depth for each AS well will be determined via soil coring, in which a soil core will be collected from the bottom 5-10 feet of the screened interval to confirm lithologic conditions are adequate for AS well screen placement. The cores will identify the depth of the confining layer above which the AS wells will be installed. If the confining layer is penetrated, the boring will be backfilled with grout to the top of this layer. Typical construction details for AS wells are presented on Figure A-13.

The Tetra Tech geologist/field engineer will be responsible for direction of the drilling subcontractor, monitoring of drilling operations, logging, and recording the installation and decontamination procedures. A boring log template, provided in Appendix H, will be used to log the soil cores from well drilling activities. The cores will be photographed and managed as investigation-derived waste (IDW).

AS Well Construction: A 4-inch diameter borehole will be drilled to complete each AS well location. Each AS well will be constructed with a 1-inch I.D., 40-micron Schumasoil® diffuser well screen (20-inches in length), and each well casing will be constructed of 1-inch I.D. Schedule 40 PVC. Casing sections will be flush-joint threaded with neoprene O-rings on the male threaded ends to render the joints airtight.

AS Well Annular Space Construction: The filter pack will be silica sand of ASTM gradation 20/30 and will be placed within the annulus in a way to ensure that it will be evenly distributed. Initially, each joined casing and screen will be suspended using a winch line on the drilling rig and then the sand will be poured into the annulus at a rate to avoid sand bridging. The geologist/field engineer will consult with the driller to confirm the appropriate volume of sand required to fill the borehole annulus around each well screen. As sand is being placed, the driller will confirm the depth to sand as well as the overall sand volume required to construct the filter pack. The filter pack will be placed approximately 6 inches above the screened interval and sealed using a bentonite plug. The seal will be composed of pelletized bentonite with sufficient pellet volume to form a seal of approximately 2 feet. The pelletized bentonite will be hydrated to eliminate grout migration during the annular space grouting process. The annular space around the well casing will then be filled with a cement slurry grout mixed in the following proportions by volume:

- Portland cement – 6.5 to 7 gallons of water per 94-pound bag; and
- Bentonite powder – No more than 4 pounds per 94-pound bag of Portland cement.

The grout will be mixed to a uniform consistency and the slurry mix confirmed using an appropriate mud scale. Following placement of the grout, the well annulus will be pressurized to ensure an adequate seal between the grout and native material.

AS Well Surface Completion: Surface completion at each AS well will be conducted following trenching and piping installation activities. All AS wells will be direct-buried and a surveyor-style location hub will be installed above each well. AS well completion details are included on Figure A-13.

IDW generated during the installation of AS wells will be managed in accordance with the KSC IDW management protocols and as detailed in Section 9.1 of this IWP.

5.3.2 Piping and Distribution Trailer Installation. A 24-inch-deep trenching network of sufficient width will be excavated for installation of compressed air conveyance piping. Six new zones (Zones 15 through 20) will be established to supply air to the phase three

expansion treatment areas. Zones 15 to 19 will operate in Area #1 and Zone 20 will operate in Area #2. The trenching layout, proposed location of new distribution trailers, and new AS zones are presented on Figure A-14. The cross-sectional details of the trenches are shown on Figure A-15.

AS wells installed in each zone will be supplied with compressed air from the existing AS system. Compressed air will be conveyed via two 2-inch I.D. standard diameter (SDR) 11 high density polyethylene (HDPE) headers from the AS system to new distribution manifold trailers located in the HS 6 phase three expansion areas (one in Area #1 and one in Area #2).

The new distribution trailers will be pre-fabricated for this phase three expansion. Details of the distribution manifolds within the trailer are shown on Figure A-16, and the piping and instrumentation diagram for the AS system is presented as Figure A-17. The air flow at each new AS well will be able to be independently adjusted, and each well will have a dedicated manual flow control valve, flow meter, check valve, and pressure gauge at the distribution manifold. Air will be distributed to each well from the distribution manifolds via lateral lines constructed of 1-inch I.D. HDPE. Connections of HDPE piping sections and fittings will be fused via a heat plate. No barbed or compression fittings will be used for HDPE connections. Wellheads will be modified to accept the AS conveyance piping.

Single-conductor #10 insulated wire and magnetic utility marking tape will be installed within all trenches at a depth of 4 to 8 inches bls for future utility detection. Trenches will be backfilled with native soil, compacted, and resurfaced to match existing conditions.

5.3.3 Air Sparge Trailer and Equipment Information. The AS compressor trailer currently in use for HS 6 will also be used for this phase three expansion. This system was previously used at another remediation site at KSC before it was moved to LC34 for the HS 6 IM in 2018. The location of the AS compressor trailer is shown on Figure A-10. The trailer housing the AS equipment has approximate dimensions of 8 feet by 24 feet and has already been blocked, leveled, and anchored to the subsurface in accordance with the Trailer/Equipment Tiedown Plan (NASA, 2001). Additional information on the AS trailer and

equipment can be found in the LC34 IWP developed for the original HS 6 AS installation (NASA, 2017b).

5.3.4 Vapor Monitoring Points. In order to calculate potential VOC emissions, vertical vapor monitoring points will be installed in the vadose zone. Six vertical vapor monitoring points (five in Area #1 and one in Area #2) will be installed at the locations shown on Figure A-11. Each vapor monitoring point will be constructed with a five-foot long, 1-inch I.D. Schedule 40 PVC riser pipe and 2.5-foot-long screen. From 1.5 to four feet bls, each vapor monitoring point will be constructed of a 0.010-inch, Schedule 40 PVC slotted screen. The PVC riser pipe will extend 1.5 feet bls with a 3.5-foot stickup. The riser pipe to screen connection will be a flush- joint threaded with a neoprene "O" ring on the male threaded end to render the joint air-tight. Silica sand with ASTM gradation 20/30 will be placed within the annulus around screen and riser pipe. A PVC ball valve will be installed at the top of the stickup. Construction details for the vertical vapor monitoring points are shown on Figure A-18. During each measurement event, the valve will be opened, and vapor readings will be measured directly from the valve with a photoionization detector (PID) or tubing will be attached to allow collection via Summa cannister.

5.3.5 As-Built Survey. Surveying will be conducted to provide as-built details for this project. The survey will include new monitoring (before and after installation) and AS wells (before installation). Surveying will be performed in accordance with the following requirements:

- Surveys will be conducted by a Florida-licensed land surveyor;
- Each monitoring well will be marked with a notch on the riser pipe to indicate the proper survey (and water level measurement) location;
- Horizontal locations will be third order, in meters, and relative to the Florida State Plane Coordinate System, East Zone (North American Datum [NAD] of 1983);

- Vertical locations will be referenced to the North American Vertical Datum (NAVD) of 1988 with the following accuracy:
    - Ground elevations: 0.1 foot; and
    - Top of casing (TOC) elevations: 0.01 foot.

SECTION VI
SYSTEM COMMISSIONING, VERIFICATION, AND OPERATION AND MAINTENANCE

This section discusses the activities to be conducted to commission, operate, and maintain the expanded AS system for HS 6 at LC34. As previously stated in this IWP, the original AS system was installed for HS 6 in 2018. The AS system is still operating portions of the original and first and second phase expansions; although, some zones have been turned off based on performance monitoring results below NADCs, and in some locations, below GCTLs. All startup and prove-out procedures were completed as part of the original HS 6 IM (NASA, 2017b). Details specific to each step of system operation are included under Section 6.1 and general operation and maintenance (O&M) procedures are discussed under Section 6.2. Vadose zone VOCs will be monitored in-situ during start-up so that potential emissions can be calculated. The procedure and calculations are described in Section 8.3. O&M checklists and forms to be used during the tasks described in this section are provided in Appendix H.

6.1 AIR SPARGING SYSTEM COMMISSIONING AND OPERATION

6.1.1 Air Sparging System Commissioning. The objectives for commissioning the phase three expanded LC34 HS 6 AS system are to confirm that the newly installed AS wells with new distribution trailers and the existing AS compressor system operate as specified, to facilitate any necessary modifications in the AS system trailer, and to gather and evaluate initial operational data. Modification of the programmable logic controller (PLC) and system manifold pressure regulator set points will be conducted.

The commissioning process is composed of three primary activities:

- Pre-commissioning check;
- Functional performance tests of individual components; and
- Pre-startup functional performance system testing of the combined components.

The commissioning process will verify that all of the components of the expanded system, below and above ground, have been properly installed and mechanically operate as designed and intended for the IM.

A site-specific commissioning checklist (Appendix H) will be completed to ensure that all equipment and instrumentation have been properly prepared and lubricated and that protective covers on rotating equipment are in place. Inspections of equipment lockouts, safety valves and/or other pressure relief devices, and site security devices will also be completed. Any deficiencies will be corrected to meet operational requirements. The checklist will be initialed by the appropriate team member at the completion and acceptance of each particular item.

Checks and individual component testing will be performed to verify that the manifold legs cycle appropriately. Any deficiencies in the system must be corrected and performance checks successfully completed before the expanded system can be accepted.

6.1.2 System Verification. Upon completion of the commissioning process and baseline performance monitoring (see Section 7.1), the phase three expanded AS system will be operated at the LC34 site until the network reaches the desired pressures and flowrates at a steady state. The strategy for verification is to start up the system, comparing observations and test data to design and performance criteria. The check-out will demonstrate proper functionality of the following:

- Fail-safe instrumentation and logic; and
- All valves, fittings, and gauges.

All related health, safety, and emergency response procedures will be in place and reviewed before this phase of operation. Before process systems are started, a final check on the alignments and positioning of all valves, safety devices, and control set points will be conducted.

The general startup sequence for normal operation of the AS system is as follows:

- Ensure that all valves are in proper position (including valves at the distribution trailers and manifolds);
- Ensure that the electrical disconnects are in the energized position;
- Ensure that all alarm conditions on the control panel are cleared;
- Verify that the solenoid valve programming is set for pre-set pulse intervals and set in AUTO position (entries for spare manifold legs should be set as "OFF", if applicable);
- Turn the selector switch for the refrigerated air dryer to the AUTO position;
- Turn the selector switch for the rotary screw compressor to the AUTO position; and
- Verify operating pressures, flows, and temperatures throughout the system and at the system discharge manifolds.

The system is now in automatic operation, and ON/OFF and START/STOP functions of the system are controlled by the PLC.

After operation has been verified and acceptable at the air sparge system location, conditions will be inspected at the distribution trailers. Flow pressure and flow rate will be verified and balanced at each distribution manifold. The following table shows design wellhead flow and pressure and design manifold pressure for the two new areas associated with the phase three expanded system.

	Area #1					**Area #2**
Zone	**15**	**16**	**17**	**18**	**19**	**20**
Wellhead Flow (scfm)	5	5	5	5	5	5
Wellhead Pressure (psig)	21.4	21.4	21.4	21.4	21.4	21.4
Manifold Pressure (psig)	36.4	36.4	36.4	36.4	36.4	33.6

At the distribution manifolds, all AS wells will be set at a flow of 5 scfm for the six new zones. Based on friction loss estimates, the initial pressure regulator settings at the system

legs for the LC34 HS 6 phase three expansion header lines are designed to operate at 36.4 psig for Zones 15 through 19 and 33.6 psig for Zone 20. The distribution manifolds will be checked to ensure that the wellhead pressure applied to each well is within the design wellhead pressure. The pressure regulator at the manifolds will be adjusted to reach a pressure of 21.4 psig at the lateral pressure gauges. Design calculations for the pressure requirements are provided in Appendix E.

The sequence terminates when the design and equipment performance is documented to comply with specifications, and the system is ready for transition into the O&M phase. Data will be collected on the startup and O&M checklists (Appendix H) as well as in a field logbook.

Temperature and pressure readings at the air dryer discharge and AS system manifold legs will be documented. Total flow from the discharge of the air compressor and manifold legs will be verified and documented. Observations, sampling, and other performance testing will be performed during startup to ensure that the expanded system is operating as expected. After startup criteria have been satisfied, the same startup procedure will be conducted remotely to ensure that the system can be fully operated remotely should there be a need for remote shutdown in the future.

Soil heterogeneities across the AS areas may present conditions under which specific design points cannot be reached. In these cases, the operational curves for the specified equipment will be consulted to verify that the equipment is operating as designed. Adjustments may be required to ensure proper AS application and/or equipment operation.

6.1.3 System Operation. After the system has been commissioned and verified operational, the system is considered to be ready to be put online in conjunction with the existing HS 6 AS well network. Each of the legs of the phase three expanded well network will be put into service as existing legs from the HS 6 IM well network are taken offline as part of pulse sequencing. At this point, remote monitoring of the system will be relied on, and O&M will be performed as needed for performance monitoring requirements and equipment maintenance schedules.

6.2 GENERAL O&M PROCEDURES

6.2.1 Routine Operation/Process Monitoring. In general, routine O&M consists of observing and adjusting process conditions and checking the system for abnormal conditions (e.g., noise, leaks, temperature, and vibration). Routine system observations will be recorded on the data sheets and forms included in Appendix H. All site activities will be recorded. During each site visit, the following activities will be performed:

- Inspection of the AS system for leakage and excessive vibration, noise, or temperature;
- Inspection of oil levels and lubrication;
- Inspection of the refrigerated air dryer;
- Assessment of differential pressures across filtration units and process equipment;
- Recording of system operational data and comparing data to design conditions and previous operating data; and
- Performing housekeeping.

6.2.2 Routine Maintenance. This section describes the routine maintenance and replacement of expendable materials associated with the phase three expanded AS system. Maintenance will be executed in a manner that prevents emergencies or unscheduled shutdowns. Drawings showing each unit, piping, valves, and electrical schematics are available on site for reference.

If electrical power maintenance is performed on any energized unit, the electrical disconnect located at the service connection will be de-energized, tagged, and locked out. Without prior coordination with NASA and Tetra Tech Health and Safety personnel (for contact information, see the 2021 LC34 Site-Specific Health and Safety Plan [SSHASP] for Air Sparge Pilot Study and Hot Spot 6 Air Sparge System Expansion and System Operations, Maintenance, and Monitoring), no maintenance or work will be conducted on the primary

voltage lines located upstream of the transformer associated with all LC34 systems. The AS system (including receiver tank, manifolds, etc.) and associated process lines will be fully depressurized prior to conducting maintenance activities.

AS Well Maintenance: The new AS wells may require maintenance when excessive solids accumulate in the wells or when pressure and/or flow rates indicate potential well fouling. If either of these situations occur, well rehabilitation may be necessary. Typical issues may be caused by sediment infiltration, chemical scaling, biomass growth, or physical damage. Well maintenance activities will be dictated by flow and pressure performance monitoring at each AS well. The diagnosis of maintenance required will be on a case-by-case basis, and appropriate actions may include repair, chemical treatment, and/or physical surging.

Air Compressor, Refrigerated Air Dryer, and Air Filters: Routine maintenance of the air compressor and refrigerated air dryer will be conducted in accordance with manufacturer recommendations. An inspection of the compressor and refrigerated air dryer will be conducted and recorded at least monthly. At a minimum, the following activities will be performed for the air compressor and refrigerated air dryer during monthly O&M visits:

- Inspection of all safety guards on blowers;
- Inspection of all mechanical components and foundation hardware and fittings for tightness;
- Inspection for excessive vibration;
- Inspection of the inlet for particulate fouling;
- Inspection of belts/drive alignment;
- Inspection of oil level and lubrication; and
- Draining of any accumulated condensate within the refrigerated air dryer and receiver tank.

Inlet filters will be replaced on an as-needed basis. Routine lubrication will be performed per manufacturer recommendations. If excessive vibration or heat is encountered, troubleshooting per manufacturer recommendations will be performed.

All O&M activities, including prove-out, will be documented on the site-specific O&M sheets (Appendix H).

SECTION VII
PERFORMANCE MONITORING PROGRAM

Performance monitoring will be conducted to evaluate the effectiveness of the LC34 HS 6 AS IM. Performance monitoring will help determine if the entire system is operating properly and if additional actions or adjustments are needed. This section discusses the performance monitoring program to evaluate the progress of the phase three expansion for the HS 6 IM. Performance monitoring for the original HS 6 IM and expansions is on-going and being documented in routine Annual Performance Monitoring Reports. Performance monitoring for this phase three expansion will also be incorporated into routine reports. Additionally, process monitoring, as discussed in Section 7.3, will be performed to evaluate IM operations and aid in maintenance and optimization reviews.

In the HS 6 phase three expansion areas, performance monitoring will be conducted during baseline and quarterly events. Baseline and quarterly samples will be collected at 18 existing and six new monitoring wells in Area #1 and six new monitoring wells in Area #2, as shown on Figure A-11. Sampling procedures will be in accordance with Section 5.2.1.2 of the KSC SAP for the RCRA Corrective Action Program (NASA, 2017a), and Florida DEP field and laboratory SOPs which are incorporated into the KSC SAP. Table 7-1 summarizes performance monitoring program locations, monitoring functions, frequencies, and analytes.

Low flow sampling techniques will be employed during groundwater sampling activities. Prior to sampling events, the AS system will be turned off at least 48-hours in advance of the sampling event. Each monitoring well will be purged and sampled using a peristaltic pump and dedicated Teflon™ or HDPE tubing. Sample tubing will be placed at the mid-point of the well screen. All purge water generated through sampling will be containerized on-site in new 55-gallon drums. The drums will be placed on a NASA-provided spill pallet and the bell cover will be secured with a strap. The bell cover and drums will be labeled. Each drum of purge water will be sampled and characterized for disposal (further discussed in Section IX).

7.1 BASELINE MONITORING

Baseline monitoring for the HS 6 phase three expanded system will be conducted at 30 performance monitoring wells to develop a baseline of groundwater concentrations immediately prior to initiating AS in Area #1 (24 monitoring wells) and Area #2 (six monitoring wells). The monitoring well locations were selected based on the HS footprint, depth, and monitoring functions. Groundwater level measurements will be collected from the monitoring wells to provide an overall summary of groundwater elevations but will not be used for groundwater contouring purposes for this specific area. Groundwater contours are periodically developed for LC34 as a whole, and water level measurements from wells within the HS 6 area will be factored into site-wide groundwater contours when prepared for the site.

All samples collected will be analyzed for the standard list of VOCs via USEPA Method 8260D. Field parameter data will also be collected, to include dissolved oxygen, pH, oxidation/reduction potential, water level, temperature, and conductivity. Following interpretation of the baseline data set, the cycling times for the total system will be determined.

7.2 QUARTERLY PERFORMANCE MONITORING

Performance monitoring for the phase three expansion areas will include groundwater sampling and collection of field parameter data at 30 monitoring well locations during quarterly sampling events. Field parameter data will include dissolved oxygen, pH, oxidation/reduction potential, water level, temperature, and conductivity. All samples collected will be analyzed for the standard list of VOCs by a fixed-based laboratory via USEPA Method 8260D. Quarterly performance monitoring events will be used to evaluate the performance of the system and to determine whether operational adjustments are needed (e.g., cycling modification, flow/pressure adjustment, etc.).

7.3 PROCESS MONITORING

Startup and routine monthly monitoring of the phase three expanded AS system will be conducted as part of O&M activities at LC34. Process monitoring of the expanded system will

be performed at the AS compressor and distribution trailers. The readings at the distribution trailers will be collected while the respective AS manifolds are active. Forms for AS data acquisition are provided in Appendix H. The following text summarizes the minimum process monitoring required for the phase three expanded AS system and distribution trailers/manifolds.

The following will be monitored for the AS system:

- Voltage and load of each service feeder (to verify adequate electrical supply);
- Voltage and load at the compressor and refrigerated air dryer;
- Compressor discharge flow, temperature, and pressure;
- Receiver tank flow and pressure;
- Refrigerated air dryer flow, temperature, pressure, and dewpoint; and
- System manifold flow and pressure (collected while the manifold is active).

The following will be monitored at the distribution manifolds:

- Distribution manifold pressures;
- Manifold leg pressures and flows; and
- Manifold conditions and whether condensate is evident at the manifolds.

Table 7-1. Groundwater Performance Monitoring Plan - Phase Three Expansion (Year 1)

Well Location*	Screened Interval (ft bls)	Monitoring Function	Baseline Sampling	Sampling Frequency - Year 1	Analytes	
					VOCs	Field Parameters
IW0010SR	1-11	Monitor edge of treatment area	✓	Quarterly	✓	✓
IW0010IR	23-28	Monitor edge of treatment area	✓	Quarterly	✓	✓
IW0016S	1-11	Monitor edge of treatment area	✓	Quarterly	✓	✓
IW0016I	25-30	Monitor edge of treatment area	✓	Quarterly	✓	✓
IW0052S	1-11	Monitor edge of treatment area	✓	Quarterly	✓	✓
IW0052I	23-28	Monitor edge of treatment area	✓	Quarterly	✓	✓
IW0053I	23-28	Monitor treatment area	✓	Quarterly	✓	✓
IW0053D	38-43	Monitor bottom of treatment area	✓	Quarterly	✓	✓
IW0054S	2-12	Monitor edge of treatment area	✓	Quarterly	✓	✓
IW0054I	23-28	Monitor edge of treatment area	✓	Quarterly	✓	✓
IW0069S	1-11	Monitor edge of treatment area	✓	Quarterly	✓	✓
IW0069I	23-28	Monitor edge of treatment area	✓	Quarterly	✓	✓
IW0111	1-11	Monitor treatment area	✓	Quarterly	✓	✓
IW0112	1-11	Monitor edge of treatment area	✓	Quarterly	✓	✓
IW0115	23-28	Monitor treatment area	✓	Quarterly	✓	✓
IW0116	23-28	Monitor edge of treatment area	✓	Quarterly	✓	✓
IW0187	16-21	Monitor treatment area	✓	Quarterly	✓	✓
IW0188	16-21	Monitor treatment area	✓	Quarterly	✓	✓
A*	16-21	Monitor edge of treatment area	✓	Quarterly	✓	✓
B*	17-27	Monitor treatment area	✓	Quarterly	✓	✓
	30-35	Monitor bottom of treatment area	✓	Quarterly	✓	✓
C*	16-21	Monitor edge of treatment area	✓	Quarterly	✓	✓
D*	16-21	Monitor edge of treatment area	✓	Quarterly	✓	✓
E*	16-21	Monitor edge of treatment area	✓	Quarterly	✓	✓
F*	15-25	Monitor treatment area	✓	Quarterly	✓	✓
G*	29-34	Monitor edge of treatment area	✓	Quarterly	✓	✓
H*	29-34	Monitor edge of treatment area	✓	Quarterly	✓	✓
I*	29-34	Monitor edge of treatment area	✓	Quarterly	✓	✓
J*	30-40	Monitor treatment area	✓	Quarterly	✓	✓
K*	30-40	Monitor treatment area	✓	Quarterly	✓	✓

*Monitoring wells will be re-named and numbered, as appropriate, during field installation.
Field parameters - dissolved oxygen, pH, oxidation/reduction potential, water level, temperature, and conductivity.
ft bls - Feet below land surface.
VOC - Volatile organic compound.

SECTION VIII
SITE CONTROLS

Tetra Tech will maintain controls over the work areas at the site during IM implementation to manage potential impacts from site activities on the environment, NASA and U.S. Space Force operations, and personnel both on and near the site. Because CCSFS has an agreement with NASA which allows NASA to conduct environmental remediation at LC34, personnel will follow KSC guidelines for site controls. Note, CCSFS approval is required to take any photographs at LC34 to document remediation work activities; authorization will need to be coordinated through the NASA RPM.

8.1 SITE SECURITY

Site security will be maintained to protect the health and safety of personnel and to preserve the integrity of NASA operations. General security requirements, project-specific security requirements, site security measures, and standard security measures are described in the following subsections.

8.1.1 General Security Requirements. Personnel with long-term KSC badges may enter CCSFS to access LC34. Short-term KSC visitor badges are not accepted at CCSFS; therefore, personnel requiring short-term access to LC34 (i.e., to deliver equipment) will require a Defense Biometric Identification System (DBIDS) badge from CCSFS.

Long-term KSC badges are only for those who work routinely at KSC or LC34 and require access for more than 30 days in a calendar year. Long-term KSC badges will be obtained in coordination with the NASA RPM through formal application to KSC Security. All personnel must be naturalized United States citizens. Badges assigned by KSC Security must be clearly displayed on the person above the waist, on the outermost garment, and with the picture and expiration date facing outward at all times while on site. Identification badges are not to be worn off site.

When applying for a long-term KSC visitor badge, the following information must be provided to the NASA RPM:

- Name (exactly as it appears on the individual's driver's license or other identification);
- Date of birth;
- Place of birth (city, state);
- Dates of visit;
- Social Security number;
- Citizenship (if not a United States citizen by birth, provide naturalization or alien registration number);
- Employer's company name and address;
- Email address for the applicant;
- Areas to be visited (e.g., LC34); and
- Purpose of visit.

Long-term badge request applicants will be instructed to complete a National Crime Information Center check, fingerprinting, enrollment in NASA's Identification Management System, and enrollment at the KSC Badging Office. Personnel reporting to the KSC Badging Office to enroll or pick up a badge should be prepared with two forms of identification, one of which must be a government-issued photo identification. The two forms of identification must display identical names (e.g., middle name either included or excluded in the same manner).

Personnel requiring short-term access to LC34 will be required to obtain a DBIDS badge through CCSFS Security. Information for a DBIDS badge will be provided by Tetra Tech to one of KSC's personnel designated for CCSFS badging. Information to be provided includes:

- Name (exactly as it appears on the individual's driver's license or other identification);

- Date of birth;
- Driver's license number and state;
- Dates of visit;
- Social Security number;
- Citizenship (if not a United States citizen by birth, provide naturalization or alien registration number);
- Employer's company name; and
- Gender, height, weight, and eye and hair color.

A 72-hour lead time is required for DBIDS badge requests to be processed by CCSFS Security. Personnel reporting to the CCSFS Badging Center to pick up a DBIDS badge should be prepared with the required documentation, as requested by the badging authorities. Display requirements for DBIDS badges must follow CCSFS Security guidance.

Prior to arriving at LC34, all personnel will be required to notify the Tetra Tech Construction Supervisor. A list of all personnel arriving and/or working at the site will be maintained and provided to the NASA RPM. Entry to CCSFS and KSC property or into controlled areas is a privilege that can be denied, suspended, or revoked.

8.1.2 Project-Specific Security Requirements. Tetra Tech will seek the NASA RPM's assistance in obtaining identification badges assigned to Tetra Tech personnel and vendors for the duration of IM activities. Personnel will present the KSC-issued or CCSFS-issued identification badges to the security guard at the KSC or CCSFS entrance gate (see Section 8.1.1 for requirements on KSC or CCSFS badging). All identification badges will be returned to KSC or CCSFS Security upon expiration of the badge, upon completion of the IM, or when possession of the badge is no longer necessary (i.e., upon removal of temporary personnel

from the IM). Personnel transporting heavy equipment which needs inspection will follow CCSFS badging guidelines and enter through the CCSFS South Gate.

8.1.3 Site Security Measures. Security equipment including traffic cones, signs, and hazard tape will be used to deter entry of unauthorized personnel to the exclusion areas. All vehicles, trailers, and equipment will be secured when not in use. Keys will be removed from construction equipment and placed in a secure location when not in use.

8.1.4 Standard Security Measures. The site is not subject to restrictions during normal security conditions and routine work hours. All employees and subcontractors will receive training on site security before they begin working on the site. Training records will be maintained. There is no need for project personnel to enter any Temporary Area Access restricted areas.

Standard security measures will include the following practices:

- The Visitor Logbook will be completely filled out by any visitors to the site and will be kept on site.
- If a visitor refuses to properly register, acts suspiciously, or has no reason to visit the work areas, the Tetra Tech Construction Supervisor will contact the NASA RPM and CCSFS/KSC Security. If the visitor continues to be uncooperative or acts suspiciously, work will stop until the matter has been resolved.
- When entering and departing the work area, all access controls will be followed.
- No alcohol, illegal drugs, or weapons will be permitted on site. Vehicles may periodically be searched for these items.
- Personnel at the site are allowed to conduct only site-related business.

Details of security incidents will be documented and reported to the NASA RPM. These incidents include trespassers on site, vandalism to property or equipment, and accidents or damage to any on-site vehicles. All site workers will comply with CCSFS/KSC traffic

enforcement requirements, as stated in KSC Security Procedural Requirements 1600.1, Chapter 16. Specifically, speed limits must be maintained, and use of cell phones while driving is prohibited (hands-free only).

8.1.5 Use and Maintenance of Site Control Measures. The Tetra Tech Construction Supervisor is responsible for ensuring that site work zones and support areas are properly delineated. Signs posted as part of site control must be legible and unobstructed. The Tetra Tech Construction Supervisor will direct the replacement of damaged or expended control equipment and materials.

8.1.6 Procedures to Detect Violations of Security Measures. During work hours, all site employees will be responsible for detecting violations of security measures. If a violation is detected, the Tetra Tech Construction Supervisor will be notified immediately.

If employees, subcontractor personnel, or visitors are found to be violating any security or site rules during work hours, the Tetra Tech Construction Supervisor will be contacted. The Tetra Tech Construction Supervisor will then discuss the violation with the appropriate personnel. After-hour security violations, as detected by signs such as tampering with gates or site facilities, will be duly recorded. Such indications will be reported by the Tetra Tech Construction Supervisor to the NASA RPM and KSC/CCSFS Security.

8.2 EROSION AND SEDIMENTATION CONTROL

This section presents the erosion and sediment control devices proposed for the IM. A limited amount of ground disturbance will occur during drilling and trenching operations; however, based on the estimated disturbance area (greater than one acre), a NPDES permit will be required (see Section 4.1.7). A SWPPP is also required and is included as Appendix G. If the controls are identified to be ineffective (e.g., if the controls are not collecting debris) or if there is a change in design, construction processes, or maintenance activities that will significantly affect the potential for discharge of pollutants to surface water, the controls will be modified accordingly and recorded in construction completion documentation.

Erosion and Sediment Control Best Management Practices: The following describes the types of erosion and sediment control BMPs to be implemented on an as-needed basis by the Construction Supervisor to prevent sediments (contaminated or uncontaminated) from being transported beyond the limits of disturbance. The references presented along with the erosion and sediment control BMPs refer to the Florida Storm Water and Erosion and Sedimentation Control Inspector's Manual (Florida DEP, 2018).

Filter Sock (Inspector's Manual BMP 3.4.3): A filter sock is a temporary sediment barrier and storm water runoff filtration device consisting of a three-dimensional, tubular, sediment control filled with biodegradable material placed on the ground and attached to supporting posts. The purpose of a filter sock is to intercept and detain small amounts of sediment from disturbed areas during construction operations and to decrease the velocity of sheet flows and low- to moderate-level channel flows.

Permanent Seeding (Inspector's Manual BMP 4.5): Permanent seeding is the establishment of perennial vegetative cover on disturbed areas by planting seed. The purpose of permanent seeding is to reduce erosion and decrease sediment yield from disturbed areas. Additionally, permanent seeding permanently stabilizes disturbed areas in a manner that is economical, adaptable to site conditions, and allows selection of the most appropriate plant material. Permanent seeding will be used within the limits of disturbance in all areas that will not be restored with access roads.

Other prevention and response measures will be used to prevent surface water contamination and transportation of contamination. These controls are not identified in the Florida Storm Water and Erosion and Sedimentation Control Inspectors Manual and are as follows:

- Contaminated equipment will be decontaminated before exiting the exclusion zone.
- Any release of hazardous waste or hazardous material will be contained and cleaned up immediately. A spill kit will be maintained on site.
- In the unlikely event of a release of contaminated groundwater to land surface, the NASA RPM will be notified.

- Soil cuttings generated from drilling activities will be collected in 55-gallon drums or a roll-off container, sampled, and disposed of appropriately.

8.3 FUGITIVE EMISSIONS AND AIR QUALITY MONITORING

As discussed in Section 4.1.8, the expanded AS system and the LC34 site as a whole, are not expected to exceed annual HAP emission limits. As a screening step to ensure that KSC's Air Operation Permit's HAP requirements are met at HS 6, fugitive gas emissions will be estimated from groundwater contaminant results at the monitoring wells during baseline sampling. If concentrations are estimated at levels that could indicate individual HAP emissions greater than 1,000 pounds per year or total HAP emissions greater than 2,500 pounds per year, an evaluation of system operations and permit requirements will be performed to determine appropriate AS system construction or operation modifications.

To confirm that the total air emissions do not exceed 5.5 pounds per day for any single HAP or 13.7 pounds per day for total HAPs (62-780[3][f], F.A.C), air monitoring and sampling will be conducted prior to and during startup and verification of the expanded AS system using the six vadose zone vapor monitoring points shown on Figure A-11. The proposed locations were selected based on the areas of highest groundwater VOC concentrations. Prior to start-up, direct total VOC measurements will be made with a PID at each vapor monitoring point to establish a baseline dataset. In addition, soil vapor samples will be collected from each point using Summa canisters. During startup and operation, total VOCs will be measured by PID at a frequency of approximately once per hour. If PID detections above background are encountered at the vapor monitoring points, a 6-liter Summa canister with an 8-hour composite pressure regulator will be deployed at the location with the highest PID reading to collect an air sample. If no PID readings are above background, a Summa cannister air sample will be collected from the location with the highest groundwater concentrations. Soil vapor samples will be collected at a frequency of one sample per day for the first five workdays followed by a weekly sample for the next three weeks to provide data for air emissions calculations. The vapor samples will be analyzed for of VOCs via USEPA Method TO-15 to determine individual and total HAP concentrations. The potential emissions will be calculated in pounds per day for tetrachloroethene, TCE and VC. Based on a 5 scfm air flow

rate per AS well and 192 AS wells, the total air flow rate injected into the subsurface is 960 scfm (850 scfm in Area #1 and 110 scfm in Area #2). Based on standard conditions of 14.7 psi and 77 degrees Fahrenheit (conditions used for determining flow rate of the Summa cannister), atmospheric conditions at LC34 are closely representative of the standard conditions. Therefore, the flow rate of air emissions for Area #1 and Area #2 are assumed to be 850 and 110 cubic feet per minute (24.1 and 3.1 cubic meters per minute), respectively. Zones 15 through 20 are anticipated to operating for six hours per day (360 minutes per day) each based on the capacity and current availability of the AS system. Using these parameters, daily emissions in pounds per day will be determined for each expansion area using the following calculations.

Area #1 Daily Air Emissions (in pounds per day):

$$Air\ Sample\ Concentration\ in\ \frac{\mu g}{m^3} \times \frac{1\ pound}{453{,}600{,}000\ \mu g} \times \frac{24.1\ m^3}{1\ minute} \times \frac{360\ minutes}{1\ day}$$

Area #2 Daily Air Emissions (in pounds per day):

$$Air\ Sample\ Concentration\ in\ \frac{\mu g}{m^3} \times \frac{1\ pound}{453{,}600{,}000\ \mu g} \times \frac{3.1\ m^3}{1\ minute} \times \frac{360\ minutes}{1\ day}$$

For Area #1, the daily air emissions will be calculated using both the maximum and average sampling results from the five vapor monitoring points. Area #2 daily air emissions will be calculated using the sole vapor monitoring point sampling results. The results will be summed for Area #1 and #2 to calculate the total daily air emissions mass rate for the phase 3 expansion.

Data from soil vapor monitoring will be provided to the Florida DEP by the NASA RPM weekly. If air sample concentrations indicate potential emissions greater than either daily or yearly criteria, operation of the AS system will be modified such that emissions remain less than permitted HAP limitations. These modifications may include, but are not limited to, reductions in the number of AS wells being operated or adjustments to duration of operation.

For protection of worker and visitor health, real-time field monitoring of ambient air will be conducted within the AS field with a PID to establish a baseline dataset, and then during startup and operation of each zone at a frequency of approximately once per hour to determine if background conditions in breathing zones are affected by AS activities.

8.4 DECONTAMINATION

A temporary decontamination pad (most likely consisting of a plastic tarp and PVC piping to create a collection basin) will be constructed on site and will be used by the drilling subcontractor during installation of monitoring and AS wells. Decontamination fluids will be collected, sediments removed, and water characterized to determine proper disposal. IDW will be properly handled in accordance with the KSC IDW Management protocols.

Decontamination fluids will be placed into 55-gallon drums or staged in double-walled bulk containers for on-site treatment and appropriately labeled. The drums will be transported to a designated IDW staging area and secured on spill pallets with secondary containment. Waste management is further discussed in Section 9.1.

8.5 SPILL PREVENTION AND CONTROL

The impact to health and the environment due to any spill will depend on the quantity of material spilled and the physical, chemical, and toxic effects of the material. The following items are considered for spill and discharge control:

- Equipment used for installation and operation of the system that may include petroleum, oil, and lubricant products;
- Contaminated groundwater extracted during site sampling activities; and
- Untreated air compressor condensate.

8.5.1 Control Procedures and Protective Measures. The potential for release of contaminants to the ground will be controlled by containment, proper equipment service, and maintenance practices. Equipment operators will be required to inspect equipment for leaking

seals, fittings, and lines during every site visit and will not use the equipment until any deficiencies are corrected. If a release of contamination to soil occurs, the soil will be excavated and properly treated or disposed of off-site.

8.5.2 Spill Response. Tetra Tech will maintain readily accessible spill control/response equipment. Spill supplies including, but not limited to, organic sorbent material, personal protective equipment (PPE), a portable eye wash, and overpacks will be maintained. An inventory of spill control supplies will be maintained and inspected by the Tetra Tech Construction Supervisor throughout installation of the expanded AS IM.

The Tetra Tech Construction Supervisor will be notified if a spill occurs, and the NASA RPM will be notified verbally within 8 hours of the incident. If the spill leads to personnel injury or fire, the initial notification will be made to the emergency telephone number found in the 2021 LC34 SSHASP for Groundwater Interim Measures and System Operations, Maintenance, and Monitoring (NASA, 2021), and a subsequent notification will be made to the NASA RPM. The Tetra Tech Construction Supervisor will direct emergency activities at the spill and will ensure that all health and safety equipment and supplies needed for a spill are readily available and properly used. The personnel responding to the emergency will be instructed on the characteristics of the spilled material(s) and special cleanup procedures. During a hazardous materials spill cleanup, the Tetra Tech Construction Supervisor will designate a Hazardous Waste Operations and Emergency Response trained person to monitor for exposures to chemical contamination to determine the need for protective equipment and apparel, to identify any restricted work areas and controlled access areas, and to provide cleanup guidance.

SECTION IX
WASTE MANAGEMENT PROCEDURES

Types of waste generated during the performance of IM operations may include soil cuttings, well development and purge water, decontamination fluids, and PPE. Based on historical site activities and types of contaminants present, none of these IDW materials is expected to present a significant risk to human health or the environment if properly managed. The following describes the waste management procedures to be conducted during IM implementation, which will follow the general guidelines as outlined in the KSC IDW management protocols.

9.1 IDW MANAGEMENT

Grab samples (one from each drum or roll-off container generated, with separate containers for soil and water) will be collected from the IDW generated during well installation and groundwater sampling activities to classify the material for disposal. The samples will be submitted to the laboratory for VOC, Toxicity Characteristic Leaching Procedure, reactivity, corrosivity, and ignitability analyses.

Soil cuttings and excess soil core material resulting from well installation activities will be placed directly into Department of Transportation (DOT)-approved 55-gallon drums or roll-off container. Proper management and staging of these wastes will be performed by Tetra Tech after waste sample analytical results are received from the laboratory and reviewed. Appropriate waste profiles and/or manifests provided by the company providing waste transportation and disposal will be completed prior to off-site removal of wastes.

Well development, purge, and decontamination waters will be pumped into DOT-approved 55-gallon drums. The drums will be labeled and logged, and the pH of the contents will be measured. If the pH of the contents of any drum is less than 6 or greater than 8.5, the pH of the IDW contents will be adjusted using either base (to increase pH) or acid (to decrease pH). Logs containing pH levels, pH adjustment summary information, waste quantities, and drum identification information will be documented on the IDW log provided in Appendix H. IDW analytical results will be forwarded to the NASA RPM for proper characterization and

disposal. Note, purge and decontamination water generated through baseline and performance sampling may be transferred to the HCS treatment system for processing as done for routine site sampling events.

9.2 DECONTAMINATION FLUIDS

Fluids generated during the decontamination of equipment will be disposed of in the same manner as described for IDW.

9.3 PPE AND MISCELLANEOUS TRASH

PPE and clothing will be wiped clean and disposed of in trash containers. All empty, spent, broken, unusable, or unwanted aerosol cans are considered “waste aerosol cans” and must be properly collected, stored, labeled, and disposed of through the KSC Waste Management Office. Waste aerosol cans cannot be discarded in regular trash or in solid waste dumpsters.

SECTION X
REMEDIATION MANAGEMENT

10.1 RESOURCES MANAGEMENT

The activities described in the IWP will be implemented by NASA through Tetra Tech. Tetra Tech is responsible for performance of these activities.

10.2 SCHEDULE AND TIME MANAGEMENT

The schedule for implementation of the IM at the site is dependent on the critical path, which consists of obtaining necessary authorizations and permit approvals, performing mobilization activities, installing AS and monitoring wells, trenching and installation activities, baseline sampling, system verification, system O&M, and performance monitoring. Field activities may also be affected by launch delays and weather conditions including wind and lightning, which are addressed in the 2019 and 2021 LC34 SSHASPs (NASA, 2019b and 2021).

10.3 COMMUNICATIONS

An initial project kick-off meeting will be held with Tetra Tech, KSC Safety and Health personnel, and the NASA RPM to review project information. Prior to the start of field activities, a health and safety meeting will be held with the field crew to discuss the project. In addition, a health and safety meeting will be conducted whenever a new subcontractor is scheduled to be on site. Site personnel will meet daily for morning tailgate meetings during IM installation to discuss operations and safety issues and to coordinate activities such as personnel assignments and action items for that day.

Once a week, a project meeting will be held with the Tetra Tech Construction Supervisor, Tetra Tech Site Safety Supervisor, and Tetra Tech Project Manager. The NASA RPM is invited to all meetings and for general site visits. The topics will be safety, progress since the last meeting, potential concerns or conflicts, ideas and suggestions, and quality. Comments from NASA will be discussed, and a response given or action taken, as appropriate.

The following is a list of the project meetings that will be held to enhance communication among other members of the project team:

- Post-Award Kick-Off Meeting – A contract pre-performance meeting will be held following the notice to proceed. The meeting will address planned site activities and project tasks, schedule, deliverables, technical matters, and coordination with KSC and pertinent CCSFS entities.

- Daily Tailgate Meetings – Daily tailgate meetings will be led by the Construction Supervisor or field geologist/engineer and will detail operations for the day and discuss safety components associated with work activities. All site personnel and subcontractors will participate in the daily meetings and sign the meeting attendance form.

- Site Kick-Off Meeting – A site kick-off meeting and "Nuts and Bolts Meeting" will be held as part of mobilization. The Tetra Tech Project Manager, Tetra Tech Construction Supervisor, and key personnel will attend. The NASA RPM, KSC Safety and Health personnel, and key KSC personnel identified by the NASA RPM (e.g., security, facility manager, locate/excavate personnel, etc.) will be invited to attend.

- Weekly Progress Briefings – Throughout field work, the Tetra Tech Project Manager or Construction Supervisor will brief the NASA RPM weekly on scheduled work, progress, and upcoming activities. Notification will be provided of changes in personnel or equipment. Issues arising from the daily site meetings will be brought to the Tetra Tech Project Manager's attention, and potential problems will be noted.

- Subcontractor Health and Safety Meeting – Along with attendance at daily tailgate meetings, subcontractors will meet with the Construction Supervisor prior to initiating site work and discuss the work activities, the SSHASP, and hazard analyses for the tasks being completed. Attendance of the meeting will be documented in the SSHASP.

- Final Inspection Conference – A post-construction final inspection conference will be held to discuss and resolve any outstanding issues prior to final inspection of the work. The schedule and procedures for the final inspection will be finalized during this conference.

10.4 DOCUMENTATION, RECORDKEEPING, AND REPORTING

Information to be documented and maintained during IM implementation as required by the KSC SAP (NASA, 2017a), 2019 LC34 SSHASP for Groundwater Interim Measures and System Operations, Maintenance, and Monitoring (NASA, 2019b), and Air Sparge System Expansion SSHASP (NASA, 2021) consists of the following:

- CCSFS Utility Locate/Excavation Permit;
- Site Planning Request and Authorization;
- Hot Work Permit (if required);
- Digital imaging documentation of site and field activities obtained as part of mobilization activities, during each major phase of the IM, for each area of the IM, whenever unforeseen site conditions are encountered, after restoration activities are complete, and as directed by the NASA RPM. Digital images will be provided in Joint Photographic Experts Group (JPEG) format.
- Waste profile sheets, waste characterization results, waste shipment records, waste manifest documentation, and certificates of disposal;
- Analytical results from performance monitoring;
- Data collected during system operation; and
- Documentation required per the SSHASP.

The following text summarizes the reporting requirements and documents to be submitted to NASA as part of IM implementation.

Remediation Information System: All analytical data and supporting information will be compiled and input into the Tetra Tech database management system to update the KSC Remediation Information System (RIS). The Tetra Tech database will be used to prepare tag maps, compare site data to KSC RCRA screening criteria, determine frequencies of detection, generate summary tables, and generate figures.

Construction Completion Reporting: Following startup of the phase three expanded system for HS 6, Construction Completion will be reported and will include a summary of installation activities conducted as part of IM implementation. Drawings and survey information for the trenching and well locations will be provided as part of Construction Completion reporting. Project-related documents such as waste manifests, permits, inspections, well construction logs, daily field logs, and photo logs will be provided. Construction Completion, including initial AS system start-up activities, has already been reported for the initial HS 6 AS IM and first phase of expansion in the 2018 Operation, Maintenance, and Monitoring (OM&M) Report and Hot Spot 6 Construction Completion Report (NASA, 2019a). Construction Completion reporting for the second phase of expansion is currently in preparation, and the third phase of expansion will be incorporated into a future annual monitoring report.

O&M Manual: The AS system O&M Manual is maintained on-site in the AS compressor trailer to provide details about equipment upkeep and operation. The manual includes a complete list of system components, spare parts list, and cut sheets for each individual component. A routine maintenance schedule for mechanical equipment is also included in the manual. Instructions for equipment maintenance are provided according to manufacturer recommendations.

Advance Data Packages: A combined Construction Completion and Performance Monitoring ADP will be developed and presented to the KSCRT for the HS 6 phase three expansion. The ADP will include a summary of installation activities, permitting, deviations from the work plan, safety procedures, construction photographs, schedule, baseline

monitoring, and lessons learned from the implementation. The ADP will also present performance monitoring data from baseline, startup, and the first quarter of operation. Year 1 Performance Monitoring data for the phase three expansion will be incorporated into LC34's Annual ADP. The ADPs will include tables, maps, and other photographs/figures necessary to present findings. The data packages will be submitted to KSCRT members three weeks prior to the appropriate team meeting. The ADP will be presented in PowerPoint format during the KSCRT meeting.

Operations, Maintenance, and Monitoring / Performance Monitoring Reports: The existing LC34 HS 6 AS system and HCS are currently combined in one OM&M / Performance Monitoring Report and submitted to NASA and Florida DEP on an annual basis. The phase three HS 6 expansion will be integrated into the Annual Report. Results from performance groundwater monitoring and IM activities conducted during each operating year will be included in the reports. The reports will also include detailed descriptions of IM implementation operations completed during the reporting period and provide site contaminant and system data sets used to evaluate remedial performance. The annual reports will be sealed by a Florida-registered professional engineer, presented to the KSCRT, and submitted to Florida DEP.

10.5 DATA QUALITY AND SUBMITTAL REQUIREMENTS

The LC34 HS 6 phase three expansion IM will be subject to the data quality and submittal requirements established in the KSC SAP (NASA, 2017a).

SECTION XI
REFERENCES

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NASA, 2023. 2022 DNAPL Source Zone Operations, Maintenance, and Monitoring, Site-wide Long-term Monitoring, and Hot Spot 6 Air Sparge System Annual Performance Monitoring Report, Launch Complex 34, SWMU CC054, Cape Canaveral Air Force Station, Florida. December.

NASA, 2024. Launch Complex 34, SWMU CC054, Hot Spot 6 Area Expansion Phase Three Implementation Work Plan ADP. February.

APPENDIX A

FIGURES

ACRONYMS, ABBREVIATIONS, AND REGULATORY REFERENCE TABLE

The following list of acronyms and abbreviations are for figures included in Appendix A. The regulatory references table is for figures where contaminant contours are presented for cDCE and VC.

AS	air sparge
ASTM	American Society of Testing and Materials
ASW	air sparge well
bls	below land surface
CCSFS	Cape Canaveral Space Force Station
cDCE	cis-1,2-dichloroethene
DIA.	diameter
DNAPL	dense non-aqueous-phase liquid
DPT	direct-push technology
DSZ	DNAPL Source Zone
FNPT	Female National Pipe Thread
ft	feet
GALV.	galvanized
GCTL	Groundwater Cleanup Target Level
HCP	high concentration plume
HCS	hydraulic containment system
HDPE	high-density polyethylene
HS 6	Hot Spot 6
I.D.	inside diameter
IPS	iron pipe size
IWP	Implementation Work Plan
I	laboratory qualifier indicating estimated value
KSC	Kennedy Space Center
L	laboratory qualifier indicating actual results is greater than reported
LC34	Launch Complex 34

ACRONYMS, ABBREVIATIONS, AND REGULATORY REFERENCE TABLE

(CONTINUED)

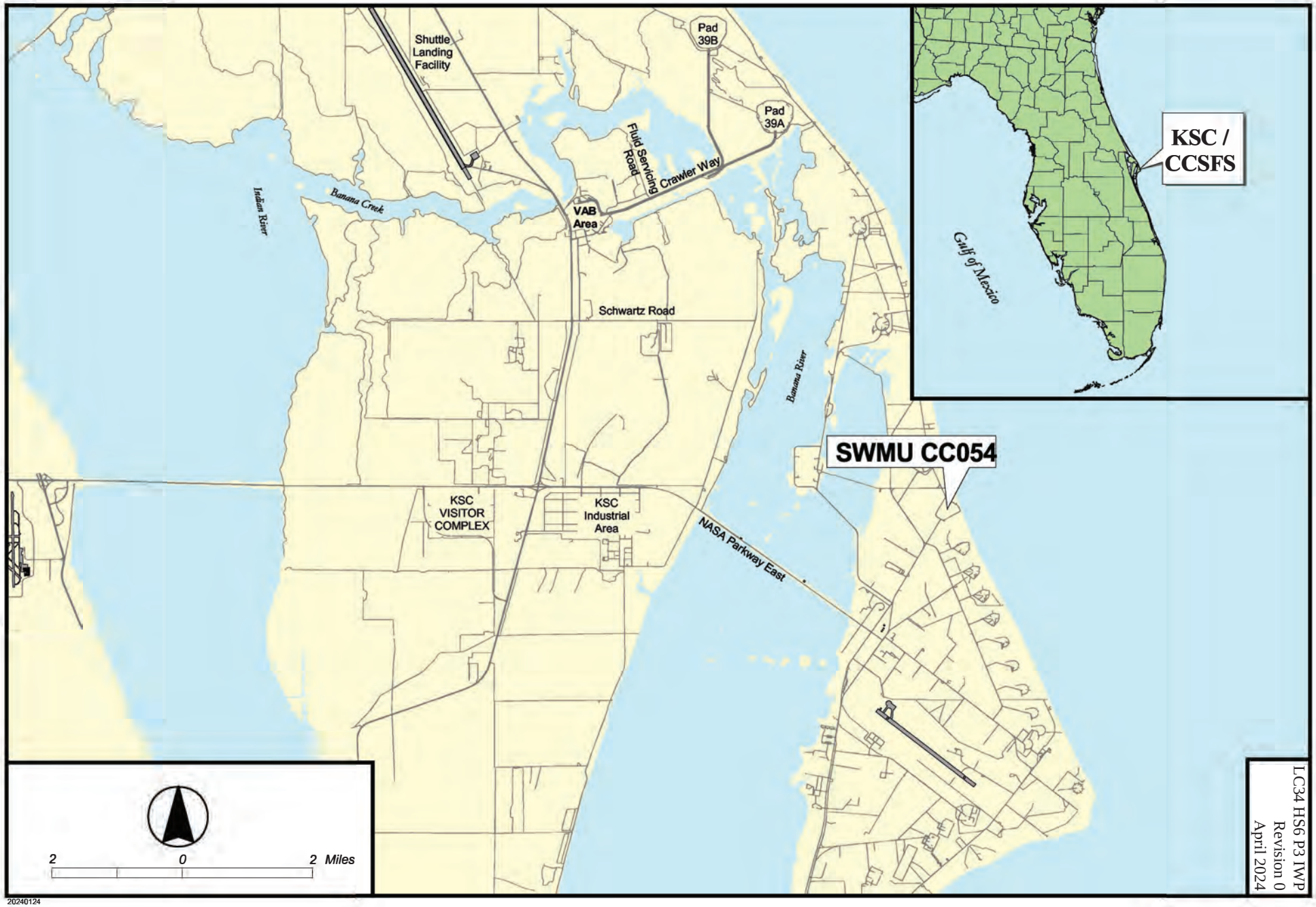
LCP	low concentration plume
MAX.	maximum
MIN.	minimum
MNPT	Male National Pipe Thread
NADC	Natural Attenuation Default Concentration
NASA	National Aeronautics and Space Administration
NPT	National Pipe Thread
NPTF	National Pipe Thread – Fuel
PVC	polyvinyl chloride
Q	laboratory qualifier indicating sample was held beyond acceptable holding time
SCH.	Schedule
SDR	standard diameter ratio
STL	steel
SWMU	Solid Waste Management Unit
TCE	trichloroethene
tDCE	trans-1,2-dichloroethene
TYP.	typical
U	laboratory qualifier indicating compound was analyzed for but not detected
µg/L	microgram per liter
VAB	Vertical Assembly Building
VC	vinyl chloride

Regulatory Reference Table

	cDCE	VC
GCTL (LCP)	70	1
NADC (HCP)	700	100
10x NADC (Hot Spot)	7,000	1,000
100x NADC (10x Hot Spot)	70,000	10,000

All concentrations in µg/L

FIGURE A-1 LOCATION OF CAPE CANAVERAL SPACE FORCE STATION AND LAUNCH COMPLEX 34
SWMU CC054, LAUNCH COMPLEX 34, CAPE CANAVERAL SPACE FORCE STATION, FLORIDA

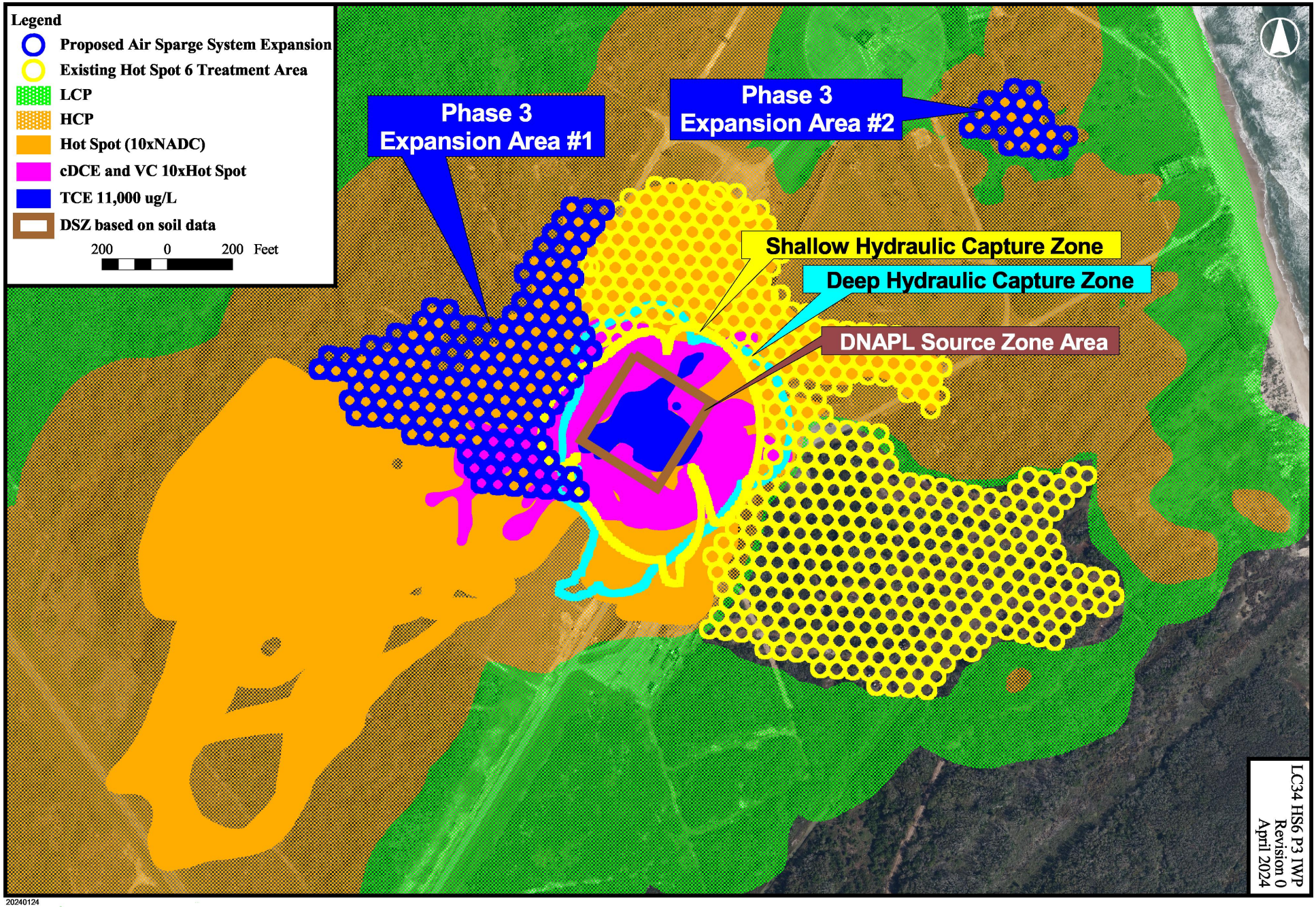


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FIGURE A-2 SITE LOCATION MAP
SWMU CC054, LAUNCH COMPLEX 34, CAPE CANAVERAL SPACE FORCE STATION, FLORIDA



FIGURE A-3 HOT SPOT LOCATION MAP
SWMU CC054, LAUNCH COMPLEX 34, CAPE CANAVERAL SPACE FORCE STATION, FLORIDA



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FIGURE A-4
2023 DPT INVESTIGATION RESULTS
SWMU CC054, LAUNCH COMPLEX 34
CAPE CANAVERAL SPACE FORCE STATION
FLORIDA

DPT0924	TCE		cDCE		tDCE		VC	
8'	0.20	U	15		0.34	U	21	09/2023
13'	0.65	I	90		0.81	I	40	09/2023
18'	2.0	U	880		10		140	09/2023
25'	2.0	U	90		3.4	U	4	U 09/2023
34'	0.20	U	0.50	I	0.34	U	0.40	U 09/2023
38'	0.20	U	0.51	I	0.34	U	0.40	U 09/2023

DPT0964	TCE		cDCE		tDCE		VC	
8'	0.20	U	4.8		0.34	U	9.6	10/2023
13'	0.20	U	140		2.4		72	10/2023
18'	0.20	U	510		9.5		210	10/2023
25'	2.0	U	1900		53		480	10/2023
34'	0.20	U	79		0.34	U	0.97	I 10/2023
38'	0.20	U	0.63	I	0.34	U	0.40	U 10/2023

DPT0925	TCE		cDCE		tDCE		VC	
8'	0.20	U	13		0.34	U	14	09/2023
13'	0.20	U	72		0.89	I	48	09/2023
18'	2.0	U	870		6.1	I	240	09/2023
25'	0.40	U	140		0.68	U	6.1	09/2023
34'	0.20	U	0.37	I	0.34	U	0.40	U 09/2023
38'	0.20	U	0.47	I	0.34	U	0.40	U 09/2023

DPT0962	TCE		cDCE		tDCE		VC	
8'	0.20	U	2.7		0.34	U	1.9	10/2023
13'	0.20	U	12		0.34	U	10	10/2023
18'	0.20	U	94		1.7		48	10/2023
25'	1.0	U	710		8.7		610	10/2023
34'	5.0	U	360		8.5	U	2400	10/2023
38'	5.0	U	320		8.5	U	890	10/2023
38'	1.0	U	76		1.7	U	350	10/2023
43'	0.20	U	2.9		0.34	U	52	10/2023

DPT0926	TCE		cDCE		tDCE		VC	
8'	0.20	U	5.6		0.34	U	5.6	09/2023
13'	0.20	U	34		0.52	I	21	09/2023
18'	1.0	U	420		7.3		200	09/2023
25'	5.0	U	1300		8.5	U	130	09/2023
34'	0.20	U	53		0.34	U	8.8	09/2023
38'	0.20	U	0.33	I	0.34	U	0.40	U 09/2023

DPT0914	TCE		cDCE		tDCE		VC	
8'	0.20	U	13		0.34	U	50	09/2023
13'	0.20	U	31		0.34	U	110	09/2023
18'	0.20	U	33		0.34	U	130	09/2023
25'	0.20	U	540		6.7		460	09/2023
34'	0.20	U	0.25	U	0.34	U	0.40	U 09/2023
38'	0.20	U	0.25	U	0.34	U	0.40	U 09/2023

DPT0961	TCE		cDCE		tDCE		VC	
8'	0.20	U	2.3		0.34	U	7.8	10/2023
13'	0.20	U	10		0.34	U	26	10/2023
18'	0.20	U	180		6.1		480	10/2023
25'	2.0	U	960		8.1	I	350	10/2023
34'	1.0	U	3600		10		480	10/2023
38'	0.20	U	800		0.55	I	15	10/2023
38'	1.0	U	600		1.7	U	7.6	10/2023
43'	0.20	U	0.25	U	0.34	U	0.40	U 10/2023

DPT0927	TCE		cDCE		tDCE		VC	
8'	0.20	U	5.8		0.34	U	6.8	09/2023
13'	1.0	U	66		1.7	U	340	09/2023
18'	1.0	U	330		5.5		210	09/2023
25'	2.0	U	820		9.5	I	180	09/2023
34'	0.20	U	85		0.34	U	11	09/2023
38'	0.20	U	0.25	U	0.34	U	0.40	U 09/2023

DPT0915	TCE		cDCE		tDCE		VC	
8'	0.20	U	48		0.34	U	160	09/2023
13'	0.20	U	87		0.34	U	350	09/2023
18'	0.20	U	700		4.5		690	09/2023
25'	0.20	U	390		1.1		110	09/2023
34'	0.20	U	0.98	I	0.34	U	0.40	U 09/2023
38'	0.20	U	0.25	U	0.34	U	0.40	U 09/2023

DPT0960	TCE		cDCE		tDCE		VC	
8'	0.20	U	1.4		0.34	U	6.5	10/2023
13'	0.20	U	4.4		0.34	U	44	10/2023
18'	0.20	U	22		0.34	U	41	10/2023
25'	5.0	U	930		9.1	I	1800	10/2023
34'	0.20	U	1.6		2.5		3600	10/2023
38'	0.20	U	24		0.34	U	2300	10/2023
38'	5.0	U	6.3	U	8.5	U	2300	10/2023
43'	0.20	U	36		0.34	U	39	10/2023

DPT0993	TCE		cDCE		tDCE		VC	
8'	0.20	U	41		0.34	U	110	10/2023
13'	2.0	U	160		3.4	U	280	10/2023
18'	2.0	U	1100		8.8	I	540	10/2023
25'	2.0	U	1200		3.4	U	300	10/2023
34'	0.20	U	130		0.34	U	8.3	10/2023
38'	0.20	U	0.67	I	0.34	U	0.40	U 10/2023

DPT0928	TCE		cDCE		tDCE		VC	
8'	0.79	U	12		0.37	U	22	09/2023
13'	0.79	U	19		0.37	U	53	09/2023
18'	7.9	U	1100		9.9	I	660	09/2023
25'	0.79	U	1100	14			220	09/2023
34'	0.79	U	0.46	U	0.37	U	0.43	U 09/2023
38'	0.79	U	0.46	U	0.37	U	0.43	U 09/2023

DPT0963	TCE		cDCE		tDCE		VC	
8'	0.20	U	1.4		0.34	U	2.0	10/2023
13'	0.20	U	12		0.34	U	94	10/2023
18'	0.20	U	63		3.1		360	10/2023
25'	0.40	U	30		4.2		350	10/2023
34'	5.0	U	3100	15	I		3100	10/2023
38'	1.0	U	2500		1.7	I	53	10/2023
38'	5.0	U	1700		8.5	U	930	10/2023
43'	0.20	U	170		0.34	U	1.2	10/2023

DPT0991	TCE		cDCE		tDCE		VC	
8'	0.20	U	26		0.34	U	46	10/2023
13'	1.0	U	300		1.7	U	570	10/2023

DPT0916	TCE		cDCE		tDCE		VC	
8'	0.20	U	18		0.34	U	55	09/2023
13'	0.20	U	110		0.34	U	340	09/2023
18'	0.20	U	190		0.34	U	590	09/2023
25'	1.0	U	1200	27			740	09/2023
34'	0.20	U	15		0.34	U	7.5	09/2023
38'	0.20	U	1.2		0.34	U	0.40	U 09/2023

DPT0959	TCE		cDCE		tDCE		VC	
8'	0.20	U	10		0.34	U	11	10/2023
13'	0.20	U	24		0.34	U	35	10/2023
18'	0.40	U	41		0.48	I	60	10/2023
25'	0.40	U	350		3.6		360	10/2023
34'	5.0	U	1600		8.5	U	820	10/2023
38'	0.20	U	240		0.34	U	17	10/2023
38'	2.0	U	1200		3.4	U	200	10/2023
43'	0.20	U	7.7		0.34	U	0.40	I 10/2023

DPT0992	TCE		cDCE		tDCE		VC	
8'	0.20	U	0.25	U	0.34	U	1.0	10/2023
13'	1.0	U	140		1.7	U	470	10/2023
18'	5.0	U	1000		8.5	U	540	10/2023
25'	2.0	U	840		7.6	I	170	10/2023
34'	0.40	U	150		0.68	U	8.4	10/2023
38'	0.20	U	0.53	I	0.34	U	0.40	U 10/2023

DPT0929	TCE		cDCE		tDCE		VC	
8'	0.79	U	33		0.37	U	61	09/2023
13'	0.79	U	38		0.37	U	84	09/2023
18'	7.9	U	1600	10			820	09/2023
25'	7.9	U	1700		8.0	I	170	09/2023
34'	0.79	U	0.46	U	0.37	U	0.43	U 09/2023
38'	0.79	U	0.46	U	0.37	U	0.43	U 09/2023

DPT0965	TCE		cDCE		tDCE		VC	
8'	0.20	U	13		1.2		1.1	10/2023
13'	0.20	U	10		0.34	I	130	10/2023
18'	4.0	U	190		6.8	U	1200	10/2023
25'	13	I	130	24	I		3200	10/2023
34'	10	I	13	U	17	U	3200	10/2023
38'	4.0	U	160		6.8	U	1300	10/2023
38'	2.0	U	710		3.4	U	1900	10/2023
43'	0.20	U	190		0.34	U	36	10/2023

DPT0917	TCE		cDCE		tDCE		VC	
8'	0.20	U	44		0.34	U	130	09/2023
13'	0.20	U	300		0.34	U	830	09/2023
18'	0.20	U	770		4.2		1100	09/2023
25'	1.0	U	1400	17			790	09/2023
34'	0.20	U	36		0.34	U	15	09/2023
38'	0.20	U	0.70	I	0.34	U	0.40	U 09/2023

DPT0958	TCE		cDCE		tDCE		VC	
8'	0.20	U	19		0.34	U	10	10/2023
13'	0.20	U	19		0.34	U	50	10/2023
18'	0.20	U	44		0.34	U	96	10/2023
25'	1.0	U	480		4.9	I	690	10/2023
34'	5.0	U	120		8.5	U	3100	10/2023
38'	2.0	U	40		3.4	U	3200	10/2023
38'	2.0	U	43		3.4	U	1400	10/2023
43'	0.40	U	44		0.68	U	120	10/2023

DPT0923	TCE		cDCE		tDCE		VC	
8'	0.40	U	1.4	I	0.68	U	0.80	U 09/2023
13'	1.0	U	320		1.7	U	260	09/2023
18'	0.20	U	2100	Q	9.4		570	Q 09/2023
25'	0.20	U	1600	Q	2.3		160	09/2023
34'	0.40	U	1.3	I	0.68	U	0.80	U 09/2023
38'	2.0	U	3.4	I	3.4	U	4	U 09/2023

DPT0930	TCE		cDCE		tDCE		VC	
8'	0.79	U	24		0.37	U	53	09/2023
13'	0.79	U	56		0.37	U	120	09/2023
18'	0.79	U	200		0.37	U	350	09/2023
25'	7.9	U	1200	19			260	09/2023
34'	0.79	U	3.2		0.37	U	5.5	09/2023
38'	0.79	U	0.49	I	0.37	U	0.43	U 09/2023

DPT0966	TCE		cDCE		tDCE		VC	
8'	0.42	I	0.37	I	0.34	U	0.40	U 10/2023
13'	0.20	U	1.7		0.34	U	27	10/2023
18'	0.20	U	3.8		0.34	U	14	10/2023
25'	4.0	U	52		6.9	I	890	10/2023
34'	0.40	U	8.5		19		4800	10/2023
38'	5.0	U	11	I	8.5	U	2400	10/2023
38'	2.0	U	3.5	I	3.4	U	1500	10/2023
43'	1.0	U	1.4	I	1.7	U	560	10/2023

DPT0918	TCE		cDCE		tDCE		VC	
8'	0.20	U	8.1		0.34	U	38	09/2023
13'	0.20	U	460		0.90	I	1200	09/2023
18'	0.20	U	2300		87		2000	09/2023
25'	2.0	U	2300		53		1100	09/2023
34'	0.20	U	40		0.34	U	12	09/2023
38'	0.20	U	2.7		0.34	U	0.40	U 09/2023

DPT0957	TCE		cDCE		tDCE		VC	
8'	0.20	U	73		1.1		24	10/2023
13'	0.20	U	77		0.34	U	140	10/2023
18'	0.40	U	84		0.68	U	290	10/2023
25'	1.0	U	1600	34			1200	10/2023
34'	0.40	U	350		9.3		340	10/2023
38'	0.20	U	0.36	I	0.34	U	0.40	I 10/2023

DPT0994	TCE		cDCE		tDCE		VC	
8'	200		91		3.9	I	2.0	U 10/2023
13'	83		66		0.68	U	10	10/2023
18'	0.68	I	2.4		0.34	U	42	10/2023
25'	2	U	9.6	I	10		1600	10/2023
34'	10	U	23	I	17	U	5700	10/2023
38'	10	I	15	I	17	U	4200	10/2023
38'	5.0	U	6.3	U	8.5	U	2700	10/2023
43'	1.0	U	1.3	I	1.7	U	370	10/2023

DPT0922	TCE		cDCE		tDCE		VC	
8'	0.20	U	0.84	I	0.34	U	0.59	I 09/2023
13'	1.0	U	17		1.7	U	35	09/2023
18'	0.20	U	2700	Q	39		3300	Q 09/2023
25'	0.20	U	2200	Q	28		860	Q 09/2023
34'	0.20	U	77		0.34	U	10	09/2023
38'	0.20	U	1.5		0.34	U	0.40	U 09/2023

DPT0931	TCE		cDCE		tDCE		VC	
8'	0.79	U	35		0.37	U	98	09/2023
13'	0.79	U	61		0.37	U	140	09/2023
18'	7.9	U	1300	13			440	09/2023
25'	20	U	3100	42			680	09/2023
34'	0.79	U	0.92	I	0.37	U	1.9	I 09/2023
38'	0.79	U	0.46	U	0.37	U	0.43	U 09/2023

DPT0967	TCE		cDCE		tDCE		VC	
8'	0.20	U	0.38	I	0.34	U	0.40	U 10/2023
13'	0.58	I	23		0.59	I	23	10/2023
18'	0.28	I	69		1.7		82	10/2023
25'	2.0	U	1400	26			1300	10/2023
34'	5.0	U	2700	12	I		760	10/2023
38'	1.0	U	490		1.7	U	14	10/2023
38'	0.68	I	190		0.68	U	6.4	10/2023
43'	0.20	U	2.0		0.34	U	0.40	U 10/2023

DPT0919	TCE		cDCE		tDCE		VC	
8'	0.20	U	7.4		0.34	U	60	09/2023
13'	0.40	U	25		0.68	U	330	09/2023
18'	1.0	U	1700	53			2200	09/2023
25'	1.0	U	2100	79			2500	09/2023
34'	2.0	U	240		3.4	U	89	09/2023
38'	0.20	U	1.3		0.34	U	0.40	U 09/2023

DPT0956	TCE		cDCE		tDCE		VC	
8'	0.40	U	72		1.9	I	29	10/2023
13'	0.40	U	210		2.5		250	10/2023
18'	5.0	U	780		12	I	320	10/2023
25'	20	U	3500		71	I	1300	10/2023
34'	2.0	U	440		4.7	I	140	10/2023
38'	0.20	U	0.84	I	0.34	U	0.71	I 10/2023

DPT0995	TCE		cDCE		tDCE		VC	
8'	35		2.8		0.34	U	0.44	I 10/2023
13'	29		6.5		0.34	U	10	10/2023
18'	3.8	I	500		15		1400	10/2023
25'	27	I	4000		130		7000	10/2023
34'	10	U	250		24	I	6800	10/2023
38'	2.0	U	5.4	I	3.4	U	2300	10/2023
38'	4.0	U	19	I	6.8	U	2800	10/2023
43'	1.0	U	5.7		1.7	U	670	10/2023

DPT0932	TCE		cDCE		tDCE		VC	
8'	0.79	U	19		0.37	U	79	09/2023
13'	0.79	U	410		2.4		360	09/2023
18'	0.79	U	10000		210		1400	09/2023
25'	0.79	U	780		8.7		100	09/2023
34'	0.79	U	1.1		0.37	U	0.43	U 09/2023
38'	0.79	U	0.46	U	0.37	U	0.43	U 09/2023

DPT0968	TCE		cDCE		tDCE		VC	
8'	0.32	I	1.6		0.34	U	0.40	U 10/2023
13'	1.2		6.9		0.34	U	2.5	10/2023
18'	0.33	I	72		1.3		18	10/2023
25'	5.0	U	2300		39		1500	10/2023
34'	2.0	U	1300		3.4	U	150	10/2023
38'	0.20	U	48		0.34	U	2.9	10/2023

DPT0920	TCE		cDCE		tDCE		VC	
8'	0.20	U	0.36	I	0.34	U	6.0	09/2023
13'	3.6	I	170		3.4	U	220	09/2023
18'	10	U	2100		79		1200	09/2023
25'	1.0	U	8200	Q	140		2000	Q 09/2023
34'	2.0	U	170		3.4	U	53	09/2023
38'	0.20	U	2.3		0.34	U	3.0	09/2023

DPT0955	TCE		cDCE		tDCE		VC	
8'	0.20	U	73		1.1		160	10/2023
13'	1.0	U	340		1.7	I	470	10/2023
18'	10	U	2300	59			1900	10/2023
25'	100	U	23000	440	I		8000	10/2023
34'	50	U	8600	97	I		3100	10/2023
38'	0.20	U	3.4		0.34	U	1.0	10/2023

DPT0996	TCE		cDCE		tDCE		VC	
8'	6.6		2.3		0.34	U	1.0	10/2023
13'	8.7		3.6		0.34	U	2.2	10/2023
18'	5.1		3.9		0.34	U	1.3	10/2023
25'	0.20	U	33		1.3		3.3	10/2023
34'	0.20	U	160		21		180	10/2023
38'	10	U	5400		79		7200	10/2023
38'	5.0	U	5200		100		4000	10/2023
43'	20	U	14000		34	U	8300	10/2023

DPT0933	TCE		cDCE		tDCE		VC	
8'	0.79	U	0.46	U	0.37	U	23	09/2023
13'	0.79	U	34		0.37	U	100	09/2023
18'	0.79	U	7600		220		3100	09/2023
25'	0.79	U	850		8.8		170	09/2023
34'	0.79	U	2.0		0.46	I	0.43	U 09/2023
38'	0.79	U	0.46	U	0.37	U	0.43	U 09/2023

DPT0969	TCE		cDCE		tDCE		VC	
8'	0.20	U	8.1		0.34	U	9.1	10/2023
13'	0.20	U	19		0.34	U	27	10/2023
18'	0.20	U	78		0.34	U	130	10/2023
25'	10	U	3500	130			820	10/2023
34'	470		58000	2100			9600	10/2023
38'	50	I	21000	290			3700	10/2023
38'	20	U	13000	130			2300	10/2023
43'	0.20	U	0.84	I	0.34	U	0.40	U 10/2023

DPT0954	TCE		cDCE		tDCE		VC	
8'	0.20	U	19		0.34	U	150	10/2023
13'	2.0	U	220		5.6	I	960	10/2023
18'	20	U	5700	180			6000	10/2023
25'	2.0	U	500		3.8	I	270	10/2023
34'	0.20	U	0.57	I	0.34	U	0.40	U 10/2023
38'	0.20	U	0.26	I	0.34	U	0.40	U 10/2023

DPT1010	TCE		cDCE		tDCE		VC	
8'	0.53	I	0.69	I	0.34	U	0.50	I 10/2023
13'	0.20	U	0.99	I	0.34	U	2.9	10/2023
18'	0.20	U	2.0		0.34	U	3.6	10/2023
25'	0.20	U	4.7		0.34	U	12	10/2023
34'	0.20	U	22		0.98	I	87	10/2023
38'	40	U	20000		400		5100	10/2023

DPT0970	TCE		cDCE		tDCE		VC	
8'	0.20	UQ	14	Q	0.34	UQ	21	Q 10/2023
13'	0.20	UQ	72	Q	0.91	IQ	150	Q 10/2023
18'	0.20	UQ	8800	Q	200	Q	2200	Q 10/2023
25'	20	UQ	42000	Q	1700	Q	12000	Q 10/2023
34'	40	UQ	27000	Q	380	Q	8800	Q 10/2023
38'	16	IQ	2300	Q	17	UQ	20	UQ 10/2023
38'	1.0	U	460		1.7	U	77	10/2023
43'	0.20	U	0.25	U	0.34	U	0.40	U 10/2023

DPT0971	TCE		cDCE		tDCE		VC	
8'	0.20	UQ	3.9	Q	0.34	UQ	5.7	Q 10/2023
13'	0.20	U	7.2		0.34	U	47	10/2023
18'	1	UQ	400	Q	1.7	UQ	380	Q 10/2023
25'	50	UQ	29000	Q	500	Q	5800	Q 10/2023
34'	5.0	U	17	I	8.5	U	10	U 10/2023
38'	0.2	UQ	7.3	Q	0.34	UQ	1.0	Q 10/2023

DPT1009	TCE		cDCE		tDCE		VC	
8'	0.20	U	2.5		0.34	U	14	10/2023
13'	0.20	U	5.2		0.34	U	43	10/2023
18'	1.0	U	210		1.7	U	610	10/2023
25'	1.0	U	170		1.7	U	730	10/2023
34'	5.0	U	1900	97			3300	10/2023
38'	40	U	33000	560			8000	10/2023

DPT0986	TCE		cDCE		tDCE		VC	
8'	0.20	U	42		0.34	U	54	10/2023
13'	0.20	U	40		0.34	U	48	10/2023
18'	0.40	U	200		2.0		110	10/2023
25'	0.20	U	200		4.7		210	10/2023
34'	0.20	U	21		0.34	U	79	10/2023
38'	0.20	U	0.25	U	0.34	U	0.40	U 10/2023

Legend

- Direct Push Technology (DPT) location

Sample Location
TCE (Trichloroethene)
cDCE (cis-1,2-Dichloroethene)
tDCE (trans-1,2-Dichloroethene)
VC (Vinyl Chloride)

Sample Date

Concentration in ug/L,
Pink highlighting indicates greater than
Groundwater Cleanup Target Level (GCTL) ug/L
TCE: 3
cDCE: 70
tDCE:100
VC: 1

Sample Interval (feet bls)

50 0 50 Feet

Area #1

DPT1014	TCE		cDCE		tDCE		VC	
8'	0.20	U	10		0.34	U	35	10/2023
13'	0.20	U	200		0.52	I	220	10/2023
18'	0.40	U	190		3.3		340	10/2023
25'	0.20	U	3.1		0.34	U	29	10/2023
34'	0.20	U	250		0.51	I	16	10/2023
38'	0.20	U	0.31	I	0.34	U	0.40	U 10/2023

DPT1016	TCE		cDCE		tDCE		VC	
8'	0.20	U	25		0.34	U	35	10/2023
13'	0.31	I	190		2.7		56	10/2023
18'	1.0	U	380		7.6		150	10/2023
25'	2.0	U	980		4.9	I	68	10/2023
34'	0.20	U	90		0.34	U	73	10/2023
38'	0.20	U	0.25	U	0.34	U	0.40	U 10/2023

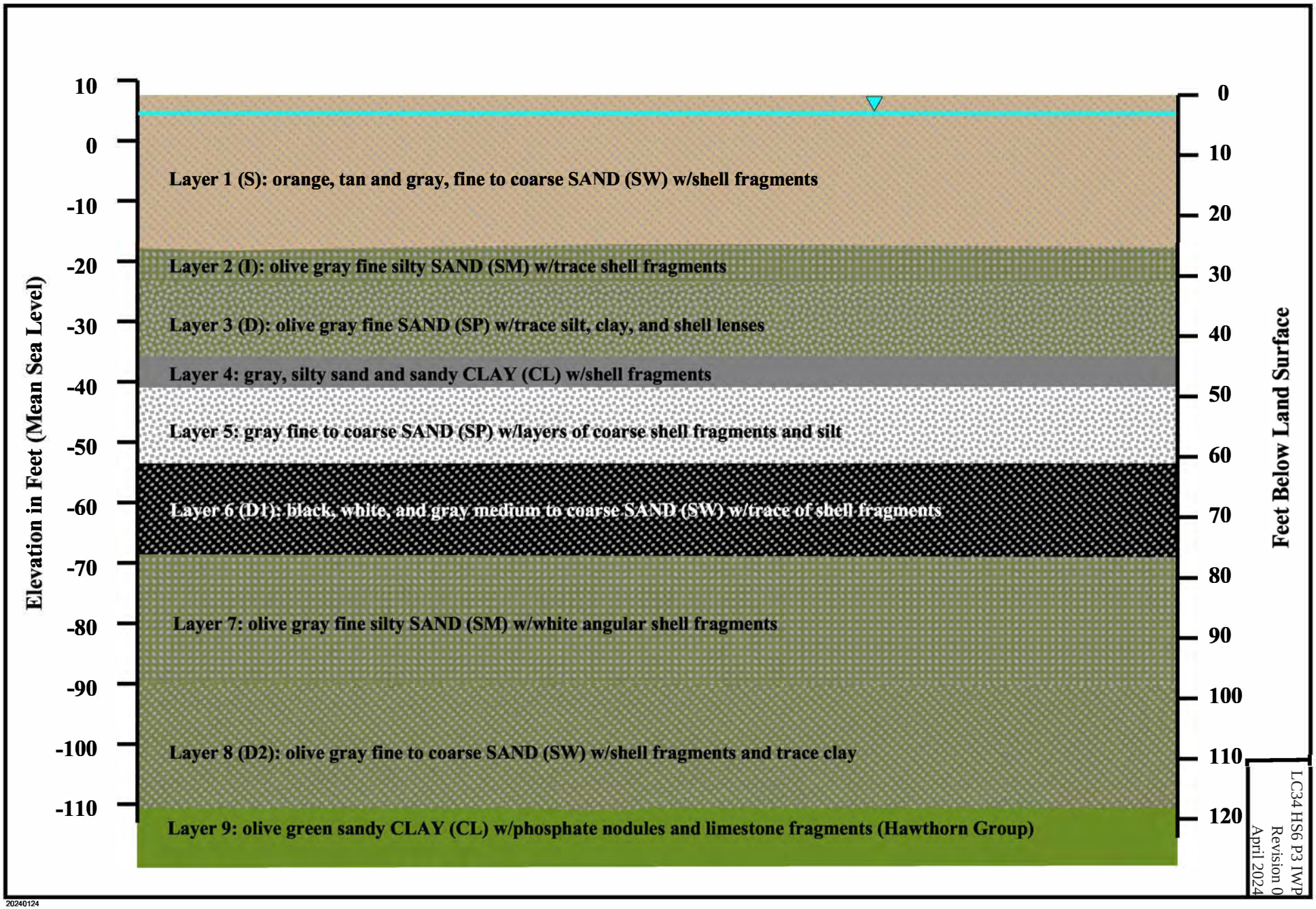
DPT1017	TCE		cDCE		tDCE		VC	
8'	0.20	U	3.6		0.34	U	17	10/2023
13'	2.1		160		0.68	U	79	10/2023
18'	0.20	U	160		1.1		7.2	10/2023
25'	0.20	U	30		0.55	I	38	10/2023
34'	0.65	I	220		0.68	U	19	10/2023
38'	0.20	U	1.6		0.34	U	0.40	U 10/2023

DPT0985	TCE		cDCE		tDCE		VC	
8'	0.20	U	30		0.34	U	53	10/2023
13'	0.20	U	60		0.34	U	79	10/2023
18'	1.0	U	400		7.1		440	10/2023
25'	2.0	U	2.5	U	3.4	U	1500	10/2023
34'	0.20	U	16		0.34	U	79	10/2023
38'	0.20	U	0.25	U	0.34	U	0.40	U 10/2023

DPT1013	TCE		cDCE		tDCE		VC	
8'	0.20	U	11		0.34	U	38	10/2023
13'	0.20	U	93		0.34	U	170	10/2023
18'	0.20	U	100		0.75	I	150	10/2023
25'	0.20	U	0.42	I	0.34	U	4.1	10/2023
34'	0.20	U	2.8		0.34	U	59	10/2023
38'	0.20	U	0.25	U	0.34	U	0.40	U 10/2023

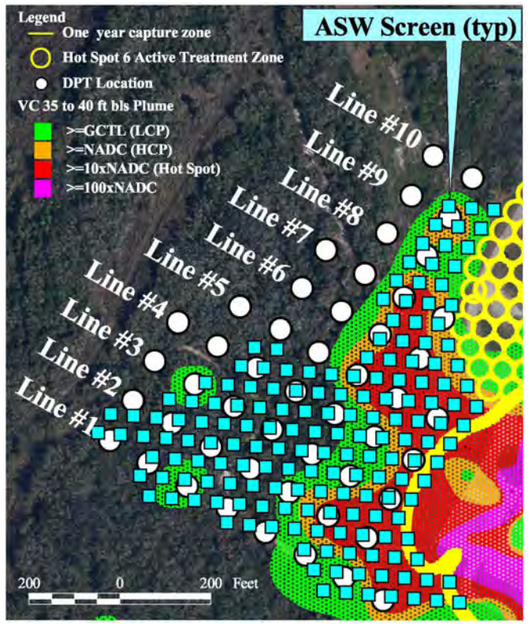
DPT0937	TCE		cDCE		tDCE		VC	
8'	0.79	U	28		0.37	U	58	09/2023
13'	0.79	U	320		0.37

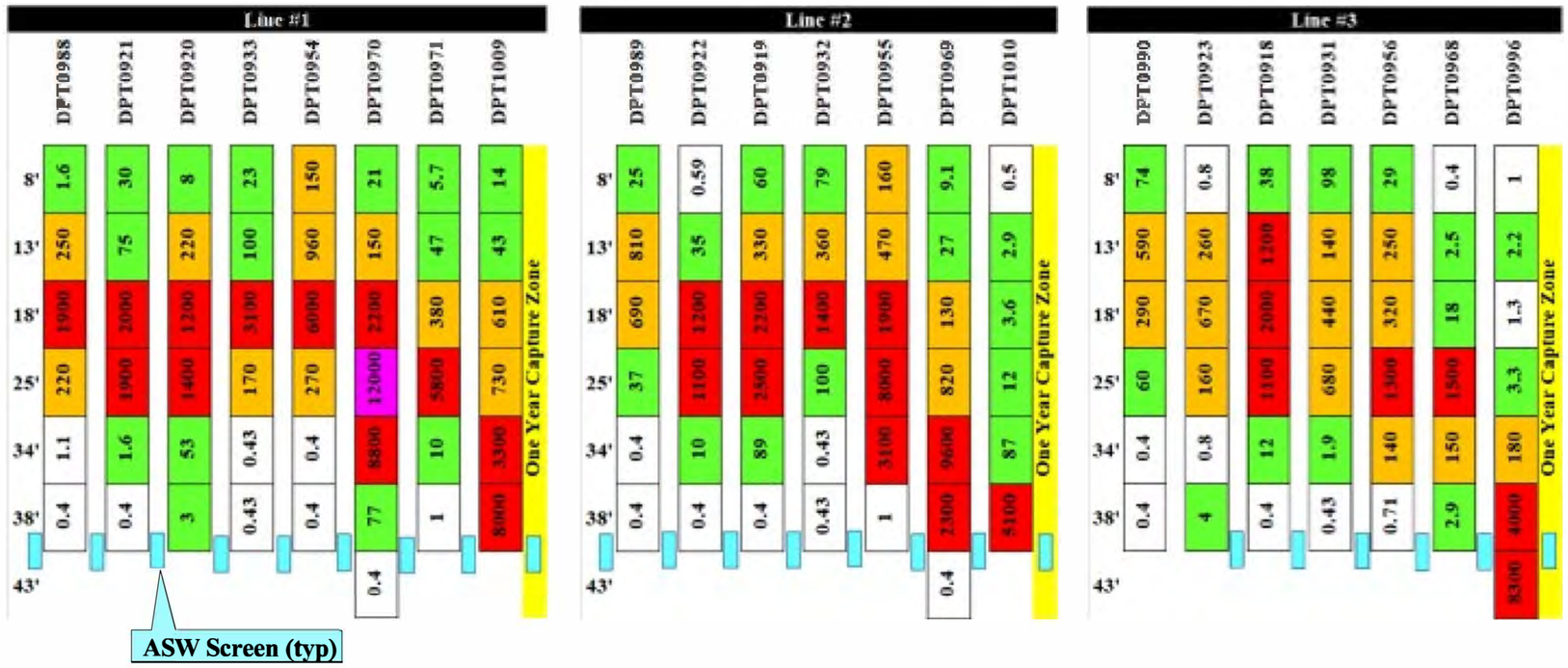
FIGURE A-5 LITHOLOGY
SWMU CC054, LAUNCH COMPLEX 34, CAPE CANAVERAL SPACE FORCE STATION, FLORIDA



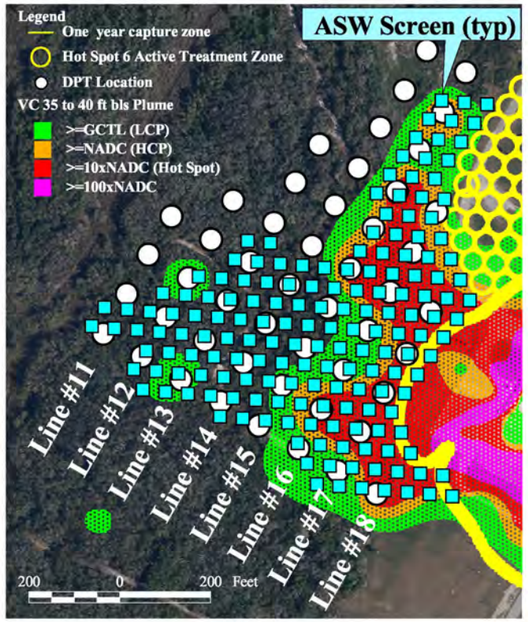
LC34 HS6 P3 IWP
Revision 0
April 2024

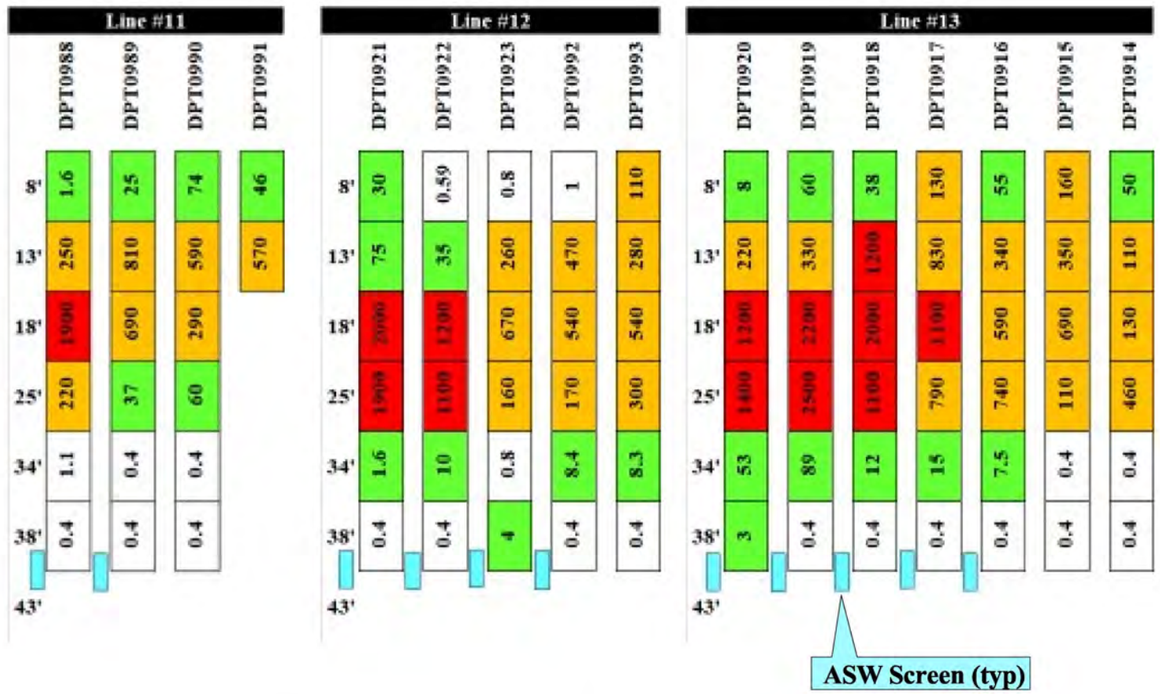
20240124


Legend
One year capture zone
Hot Spot 6 Active Treatment Zone
DPT Location
VC 35 to 40 ft bls Plume
>=GCTL (LCP)
>=NADC (HCP)
>=10xNADC (Hot Spot)
>=100xNADC
ASW Screen (typ)
Line #1
Line #2
Line #3
Line #4
Line #5
Line #6
Line #7
Line #8
Line #9
Line #10
200 0 200 Feet

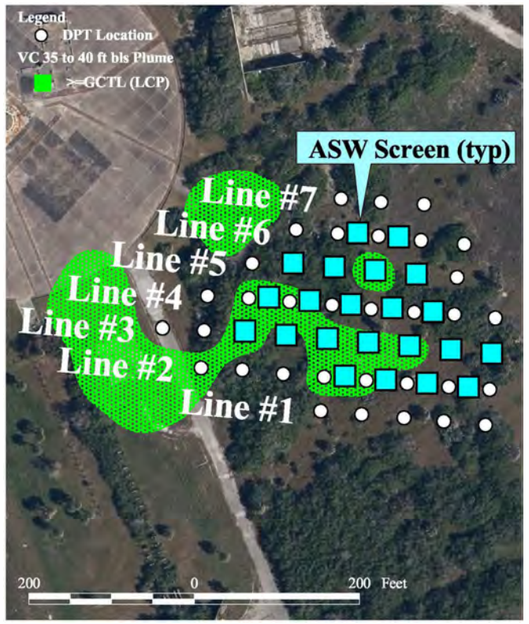

Line #1
DPT0988 DPT0921 DPT0920 DPT0933 DPT0954 DPT0970 DPT0971 DPT1009
8' 1.6 30 8 23 150 21 5.7 14
13' 250 75 220 100 960 150 47 43
18' 1900 2000 1200 3100 6000 2200 380 610
25' 220 1900 1400 170 270 12000 5800 730
34' 1.1 1.6 53 0.43 0.4 8800 10 3300
38' 0.4 0.4 3 0.43 0.4 77 1 8000
43' 0.4
One Year Capture Zone
ASW Screen (typ)
Line #2
DPT0989 DPT0922 DPT0919 DPT0932 DPT0955 DPT0969 DPT1010
8' 25 0.59 60 79 160 9.1 0.5
13' 810 35 330 360 470 27 2.9
18' 690 1200 2200 1400 1900 130 3.6
25' 37 1100 2500 100 8000 820 12
34' 0.4 10 89 0.43 3100 9600 87
38' 0.4 0.4 0.4 0.43 1 2300 5100
43' 0.4
One Year Capture Zone
Line #3
DPT0990 DPT0923 DPT0918 DPT0931 DPT0956 DPT0968 DPT0996
8' 74 0.8 38 98 29 0.4 1
13' 590 260 1200 140 250 2.5 2.2
18' 290 670 2000 440 320 18 1.3
25' 60 160 1100 680 1300 1500 3.3
34' 0.4 0.8 12 1.9 140 150 180
38' 0.4 4 0.4 0.43 0.71 2.9 8300
43' 4000
One Year Capture Zone
Line #4
DPT0991 DPT8992 DPT0917 DPT0930 DPT0957 DPT0967 DPT0995
8' 46 1 130 53 24 0.4 0.44
13' 570 470 830 120 140 23 10
18' 540 1100 350 270 82 1400
25' 170 790 260 1200 1300 7000
34' 8.4 15 5.5 340 760 6800
38' 0.4 0.4 0.43 0.4 6.4 2800
43' 0.4 670
One Year Capture Zone
Line #5
DPT0993 DPT0916 DPT0929 DPT0958 DPT0966 DPT0994
8' 110 55 61 10 0.4 2
13' 280 340 84 50 27 10
18' 540 590 820 96 14 42
25' 300 740 170 690 890 1600
34' 8.3 7.5 0.43 3100 4800 5700
38' 0.4 0.4 0.43 1400 1500 2700
43' 120 560 370
One Year Capture Zone
Line #6
DPT0915 DPT0928 DPT0959 DPT0965
8' 160 22 11 1.1
13' 350 53 35 130
18' 690 660 65 1200
25' 110 220 360 3200
34' 0.4 0.43 820 3200
38' 0.4 0.43 200 1900
43' 0.4 36
Hot Spot 6 ASW Treatment
Line #7
DPT0914 DPT0927 DPT0960 DPT0963
8' 50 6.8 6.5 2
13' 110 340 44 94
18' 130 210 41 360
25' 460 180 1800 350
34' 0.4 11 3500 3100
38' 0.4 0.4 2300 930
43' 39 1.2
Hot Spot 6 ASW Treatment
Line #8
DPT0926 DPT0961
8' 5.6 7.8
13' 21 26
18' 200 480
25' 130 350
34' 8.8 480
38' 0.4 7.6
43' 0.4
Hot Spot 6 ASW Treatment
Line #9
DPT0925 DPT0962
8' 14 1.9
13' 48 10
18' 240 48
25' 6.1 610
34' 0.4 2400
38' 0.4 350
43' 52
Hot Spot 6 ASW Treatment
Line #10
DPT0924 DPT0964
8' 21 9.6
13' 40 72
18' 4 140 210
25' 0.4 0.4 480
34' 0.4 0.97
38' 0.4
43'
Hot Spot 6 ASW Treatment

20240124

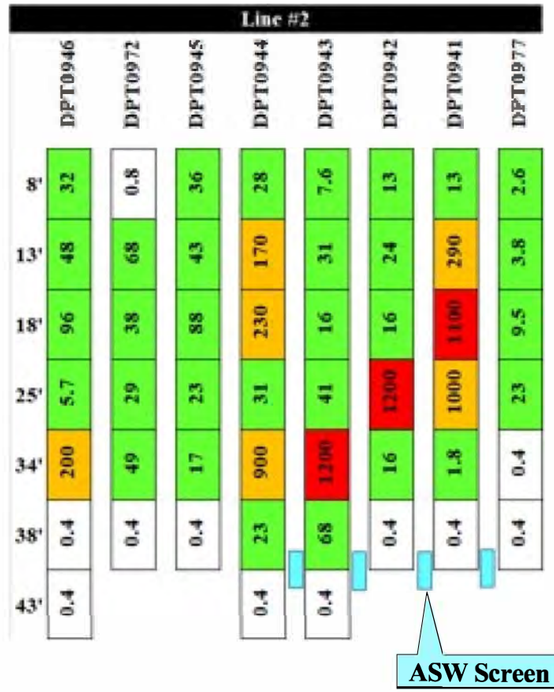

Legend
One year capture zone
Hot Spot 6 Active Treatment Zone
DPT Location
VC 35 to 40 ft bls Plume
>=GCTL (LCP)
>=NADC (HCP)
>=10xNADC (Hot Spot)
>=100xNADC
ASW Screen (typ)
Line #11
Line #12
Line #13
Line #14
Line #15
Line #16
Line #17
Line #18
200
0
200 Feet

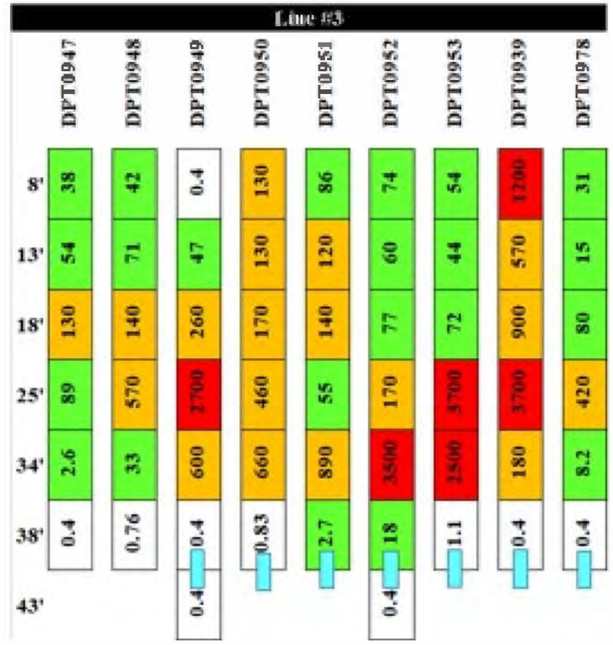

Line #11
DPT0988 DPT0989 DPT0990 DPT0991
8' 1.6 25 74 46
13' 250 810 590 570
18' 1900 690 290
25' 220 37 60
34' 1.1 0.4 0.4
38' 0.4 0.4 0.4
43'
Line #12
DPT0921 DPT0922 DPT0923 DPT0992 DPT0993
8' 30 0.59 0.8 1 110
13' 75 35 260 470 280
18' 2000 1200 670 540 540
25' 1900 1100 160 170 300
34' 1.6 10 0.8 8.4 8.3
38' 0.4 0.4 4 0.4 0.4
43'
Line #13
DPT0920 DPT0919 DPT0918 DPT0917 DPT0916 DPT0915 DPT0914
8' 8 60 38 130 55 160 50
13' 220 330 1200 830 340 350 110
18' 1200 2200 2000 1100 590 690 130
25' 1400 2500 1100 790 740 110 460
34' 53 89 12 15 7.5 0.4 0.4
38' 3 0.4 0.4 0.4 0.4 0.4 0.4
43'
ASW Screen (typ)
Line #14
DPT0933 DPT0932 DPT0931 DPT0930 DPT0929 DPT0928 DPT0927 DPT0926 DPT0925 DPT0924
8' 23 79 98 53 61 22 6.8 5.6 14 21
13' 100 360 140 120 84 53 340 21 48 40
18' 3100 1400 440 350 820 660 210 200 240 140
25' 170 100 680 260 170 220 180 130 6.1 4
34' 0.43 0.43 1.9 5.5 0.43 0.43 11 8.8 0.4 0.4
38' 0.43 0.43 0.43 0.43 0.43 0.43 0.4 0.4 0.4 0.4
43'
Line #15
DPT0954 DPT0955 DPT0956 DPT0957 DPT0958 DPT0959 DPT0960 DPT0961 DPT0962 DPT0964
8' 150 160 29 24 10 11 6.5 7.8 1.9 9.6
13' 960 470 250 140 50 35 44 26 10 72
18' 6000 1900 320 270 96 65 41 480 48 210
25' 270 8000 1300 1200 690 360 1800 350 610 480
34' 0.4 1 140 340 3100 820 3500 480 2400 0.97
38' 0.4 1 0.71 0.4 1400 200 2300 7.6 350 0.4
43' 120 0.4 39 0.4 52
Line #16
DPT0970 DPT0969 DPT0968 DPT0967 DPT0966 DPT0965 DPT0963
8' 21 9.1 0.4 0.4 0.4 1.1 2
13' 150 27 2.5 23 27 130 94
18' 2200 130 18 82 14 1200 360
25' 12000 820 1600 1300 890 3200 350
34' 8800 9400 150 760 4800 3200 3100
38' 77 2300 2.9 6.4 1500 1900 930
43' 0.4 0.4 0.4 560 36 1.2
Line #17
DPT0971 DPT1010 DPT0996 DPT0995 DPT0994
8' 5.7 0.5 1 0.44 2
13' 47 2.9 2.2 10 10
18' 380 3.6 1.3 1400 42
25' 4800 12 3.3 7000 1600
34' 10 87 180 6800 5700
38' 1 5100 4000 2800 2700
43' 8300 670 370
Line #18
DPT1009
8' 14
13' 43
18' 610
25' 730
34' 3300
38' 8000
43'

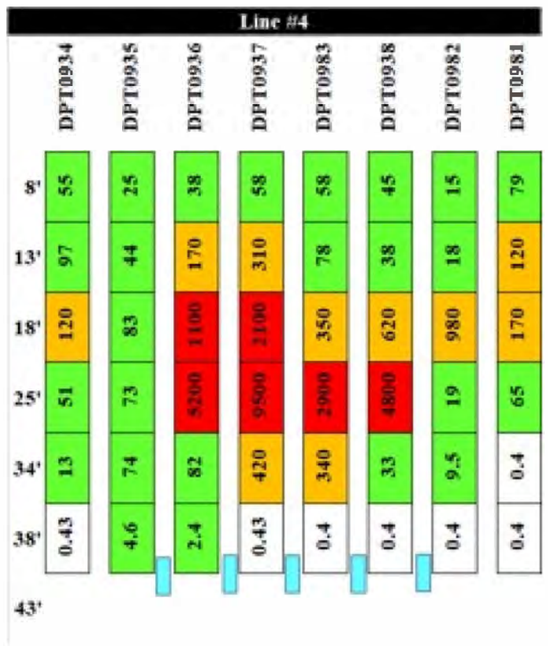
20240124

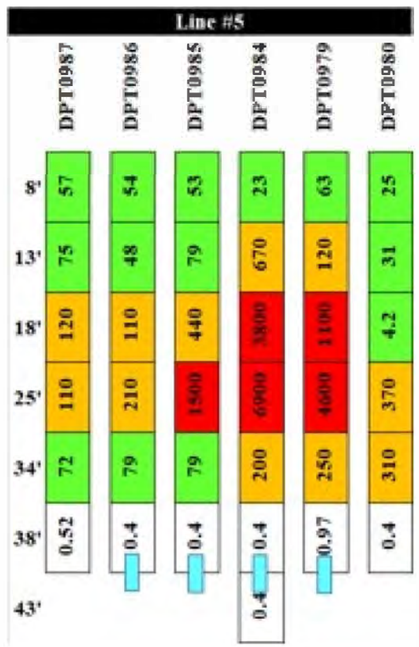

Legend
DPT Location
VC 35 to 40 ft bls Plume
>=GCTL (LCP)
ASW Screen (typ)
Line #7
Line #6
Line #5
Line #4
Line #3
Line #2
Line #1
200
0
200 Feet


Line #1
DPT0973 DPT0974 DPT0975 DPT0940 DPT0976
8' 2.2 5.3 21 2 23
13' 20 25 43 4.9 90
18' 72 82 8.2 3.5 20
25' 31 2.7 61 4.1 34
34' 6.5 0.4 0.4 0.4 0.4
38' 0.4 0.4 0.4 0.4 0.4
43'

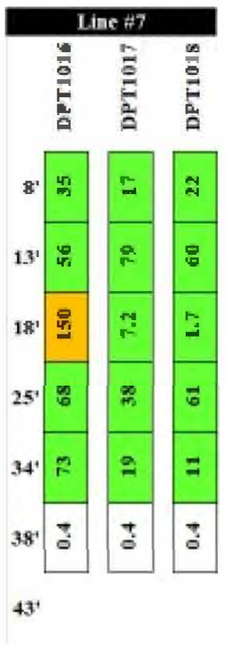

Line #2
DPT0946 DPT0972 DPT0945 DPT0944 DPT0943 DPT0942 DPT0941 DPT0977
8' 32 0.8 36 28 7.6 13 13 2.6
13' 48 68 43 170 31 24 290 3.8
18' 96 38 88 230 16 16 1100 9.5
25' 5.7 29 23 31 41 1200 1000 23
34' 200 49 17 900 1200 16 1.8 0.4
38' 0.4 0.4 0.4 23 68 0.4 0.4 0.4
43' 0.4 0.4 0.4 0.4 0.4
ASW Screen (typ)

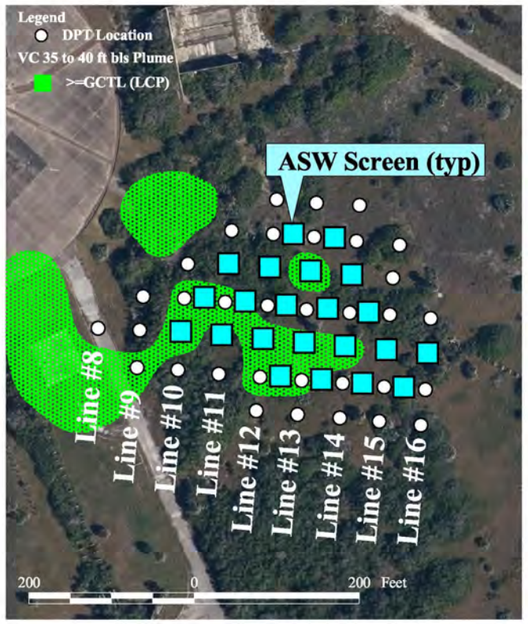

Line #3
DPT0947 DPT0948 DPT0949 DPT0950 DPT0951 DPT0952 DPT0953 DPT0939 DPT0978
8' 38 42 0.4 130 86 74 54 1200 31
13' 54 71 47 130 120 60 44 570 15
18' 130 140 260 170 140 77 72 900 80
25' 89 570 2700 460 55 170 3700 3700 420
34' 2.6 33 600 660 890 3500 2500 180 8.2
38' 0.4 0.76 0.4 0.83 2.7 18 1.1 0.4 0.4
43' 0.4 0.4 0.4


Line #4
DPT0934 DPT0935 DPT0936 DPT0937 DPT0983 DPT0938 DPT0982 DPT0981
8' 55 25 38 58 58 45 15 79
13' 97 44 170 310 78 38 18 120
18' 120 83 1100 2100 350 620 980 170
25' 51 73 5200 9500 2900 4800 19 65
34' 13 74 82 420 340 33 9.5 0.4
38' 0.43 4.6 2.4 0.43 0.4 0.4 0.4 0.4
43'


Line #5
DPT0987 DPT0986 DPT0985 DPT0984 DPT0979 DPT0980
8' 57 54 53 23 63 25
13' 75 48 79 670 120 31
18' 120 110 440 3800 1100 4.2
25' 110 210 1500 6000 4600 370
34' 72 79 79 200 250 310
38' 0.52 0.4 0.4 0.4 0.97 0.4
43' 0.4


Line #6
DPT1015 DPT1014 DPT1013 DPT1012 DPT1011
8' 25 35 38 40 51
13' 74 220 170 620 86
18' 28 340 150 890 440
25' 280 29 4.1 3.8 320
34' 24 16 59 180 3
38' 0.4 0.4 0.4 0.4 0.4
43'


Line #7
DPT1016 DPT1017 DPT1018
8' 35 17 22
13' 56 79 60
18' 150 7.2 1.7
25' 68 38 61
34' 73 19 11
38' 0.4 0.4 0.4
43'

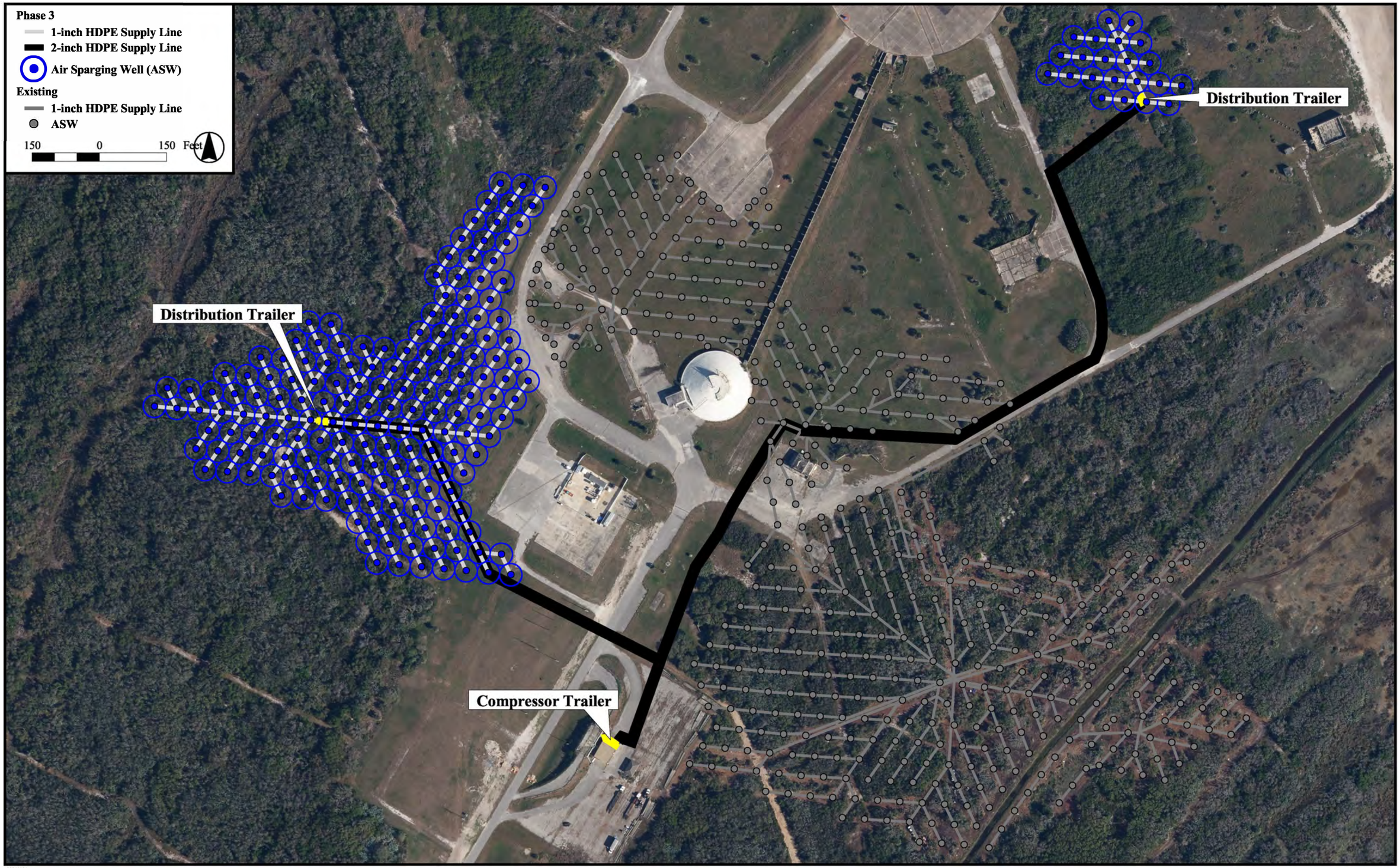

Legend
DPT Location
VC 35 to 40 ft bls Plume
>=GCTL (LCP)
ASW Screen (typ)
Line #8
Line #9
Line #10
Line #11
Line #12
Line #13
Line #14
Line #15
Line #16
200
0
200 Feet


Line #8
DPT0947
8' 38
13' 54
18' 130
25' 89
34' 2.6
38' 0.4
43'
Line #9
DPT0946 DPT0948 DPT0934
8' 32 42 55
13' 48 71 97
18' 96 140 120
25' 5.7 570 51
34' 200 33 13
38' 0.4 0.76 0.43
43' 0.4
Line #10
DPT0972 DPT0949 DPT0935 DPT0987
8' 0.8 0.4 25 57
13' 68 47 44 75
18' 38 260 83 120
25' 29 1700 73 110
34' 49 600 74 72
38' 0.4 0.4 4.6 0.52
43' 0.4
Line #11
DPT0945 DPT0950 DPT0936 DPT0986 DPT1015
8' 36 130 38 54 25
13' 43 130 170 48 74
18' 88 170 1100 110 28
25' 23 460 5200 210 280
34' 17 660 82 79 24
38' 0.4 0.83 2.4 0.4 0.4
43'
ASW Screen (typ)
Line #12
DPT0973 DPT0944 DPT0951 DPT0937 DPT0985 DPT1014 DPT1016
8' 2.2 28 86 58 53 35 35
13' 20 170 120 310 79 220 56
18' 72 230 140 2100 440 340 150
25' 31 31 55 9800 1500 29 68
34' 6.5 900 890 420 79 16 73
38' 0.4 23 2.7 0.43 0.4 0.4 0.4
43' 0.4
Line #13
DPT0974 DPT0943 DPT0952 DPT0983 DPT0984 DPT1013 DPT1017
8' 5.3 7.6 74 58 23 38 17
13' 25 31 60 78 670 170 79
18' 82 16 77 350 3800 150 7.2
25' 2.7 41 170 2900 6900 4.1 38
34' 0.4 1200 3500 340 200 59 19
38' 0.4 68 18 0.4 0.4 0.4 0.4
43' 0.4 0.4
Line #14
DPT0975 DPT0942 DPT0953 DPT0938 DPT0979 DPT1012 DPT1018
8' 21 13 54 45 63 40 22
13' 43 24 44 38 120 620 60
18' 8.2 16 72 620 1100 890 1.7
25' 61 1200 3700 4800 4600 3.8 61
34' 0.4 16 2500 33 250 180 11
38' 0.4 0.4 1.1 0.4 0.97 0.4 0.4
43'
Line #15
DPT0940 DPT0941 DPT0939 DPT0982 DPT0980 DPT1011
8' 2 13 2100 15 25 51
13' 4.9 290 570 18 31 86
18' 3.5 1100 900 980 4.2 440
25' 4.1 1000 3700 19 370 320
34' 0.4 1.8 180 9.5 310 3
38' 0.4 0.4 0.4 0.4 0.4 0.4
43'
Line #16
DPT0976 DPT0977 DPT0978 DPT0981
8' 23 2.6 31 79
13' 90 3.8 15 120
18' 20 9.5 80 170
25' 34 23 420 65
34' 0.4 0.4 8.2 0.4
38' 0.4 0.4 0.4 0.4
43'

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FIGURE A-10 HOT SPOT 6 EXPANSION - PHASE THREE - AIR SPARGE WELL LAYOUT
SWMU CC054, LAUNCH COMPLEX 34, CAPE CANAVERAL SPACE FORCE STATION, FLORIDA

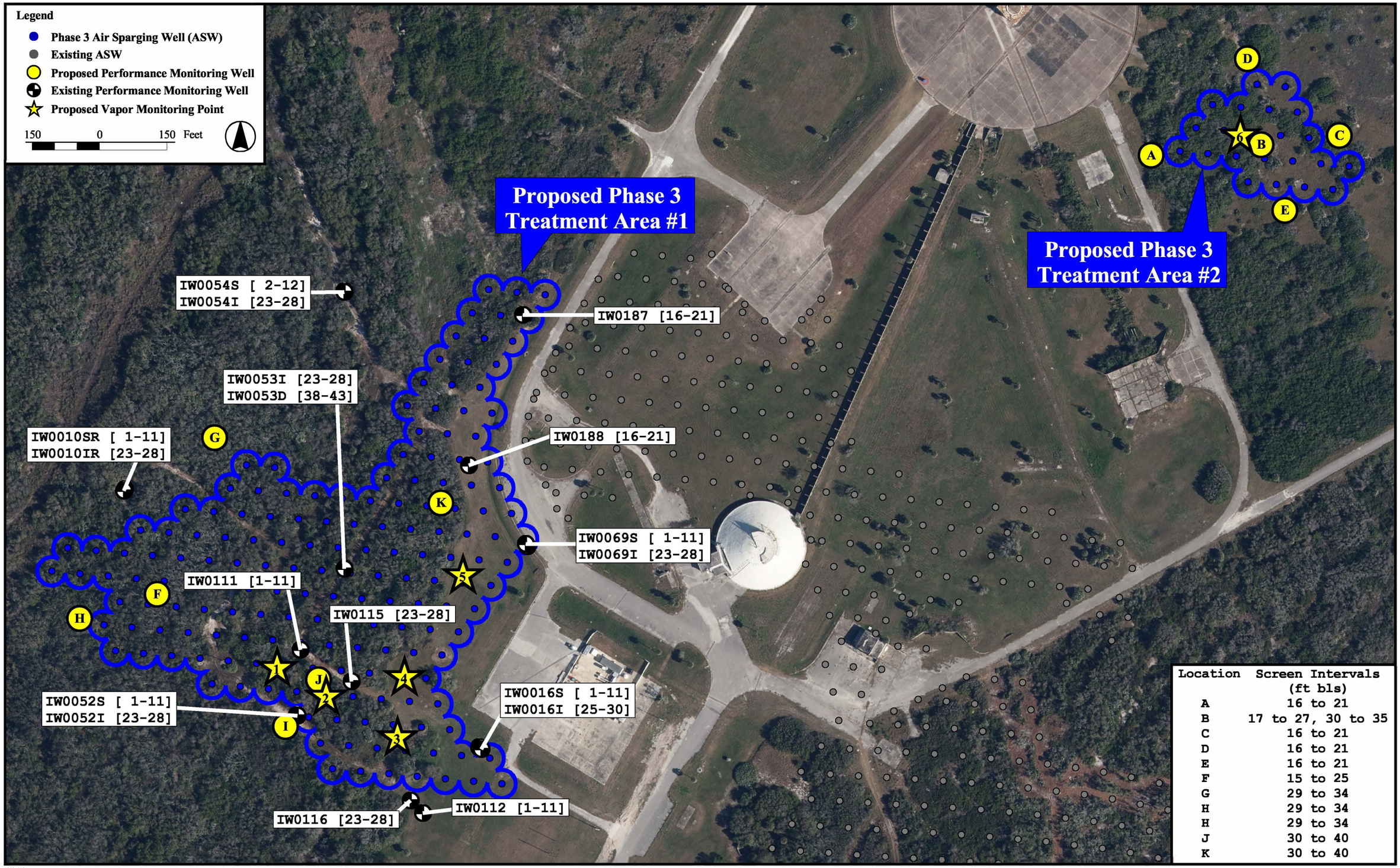
LC34 HS6 P3 IWP
Revision 0
April 2024



20240124

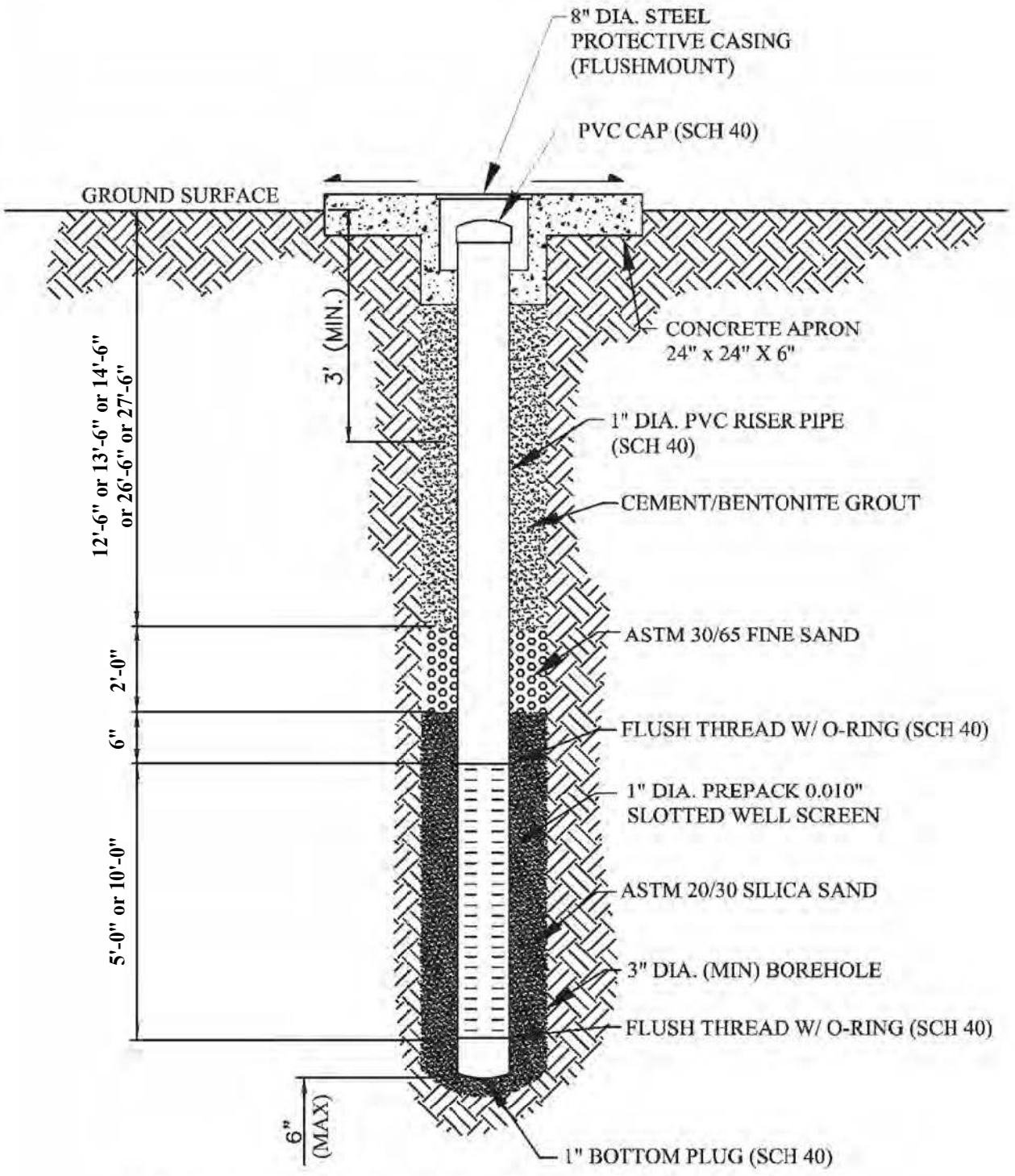
FIGURE A-11 HOT SPOT 6 EXPANSION - PHASE THREE - PROPOSED PERFORMANCE MONITORING WELL LOCATION MAP
SWMU CC054, LAUNCH COMPLEX 34, CAPE CANAVERAL SPACE FORCE STATION, FLORIDA

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Location	Screen Intervals (ft bls)
A	16 to 21
B	17 to 27, 30 to 35
C	16 to 21
D	16 to 21
E	16 to 21
F	15 to 25
G	29 to 34
H	29 to 34
H	29 to 34
J	30 to 40
K	30 to 40

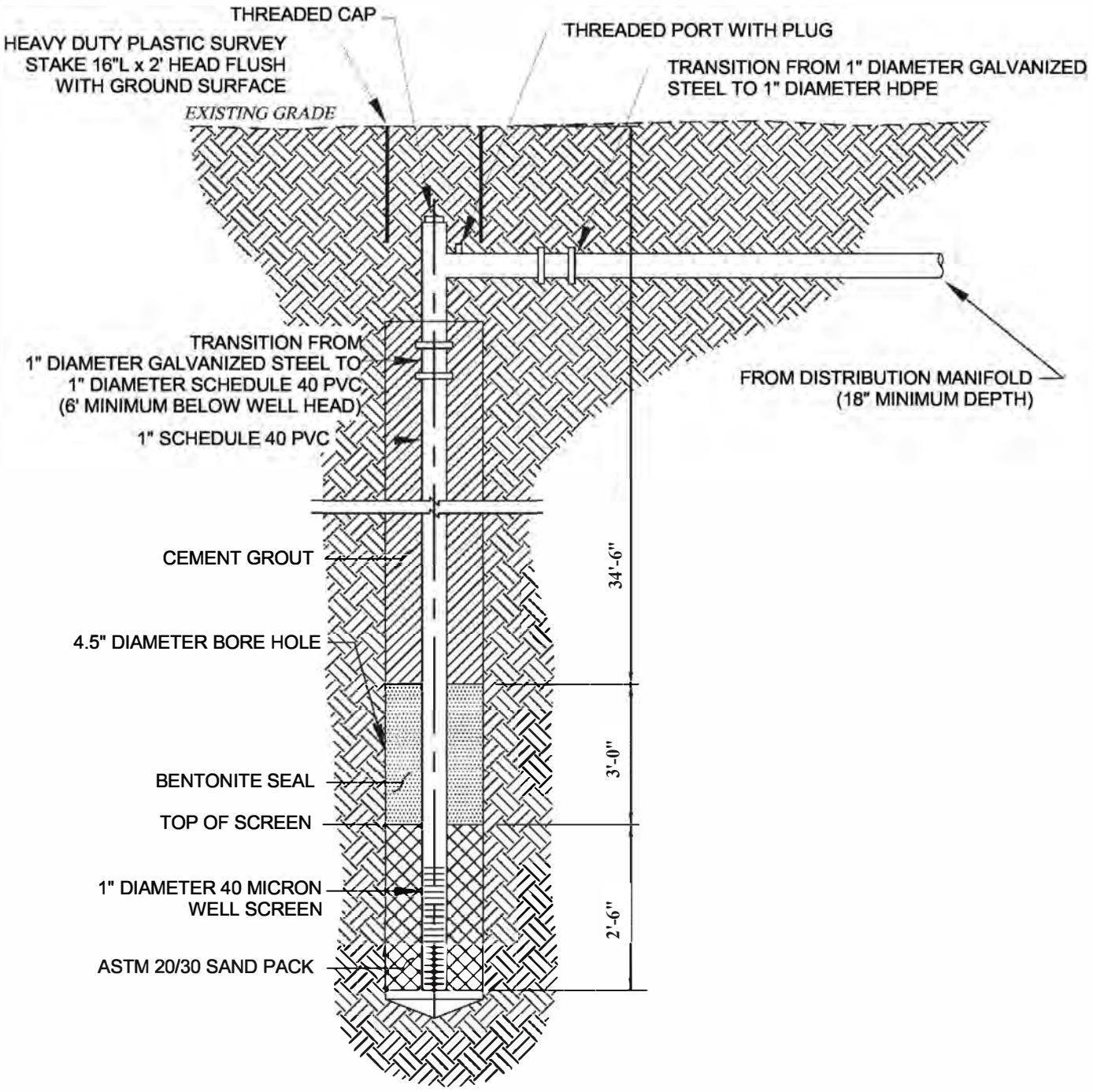
20240124



GROUNDWATER MONITORING WELL DETAIL

NOT TO SCALE

20240124



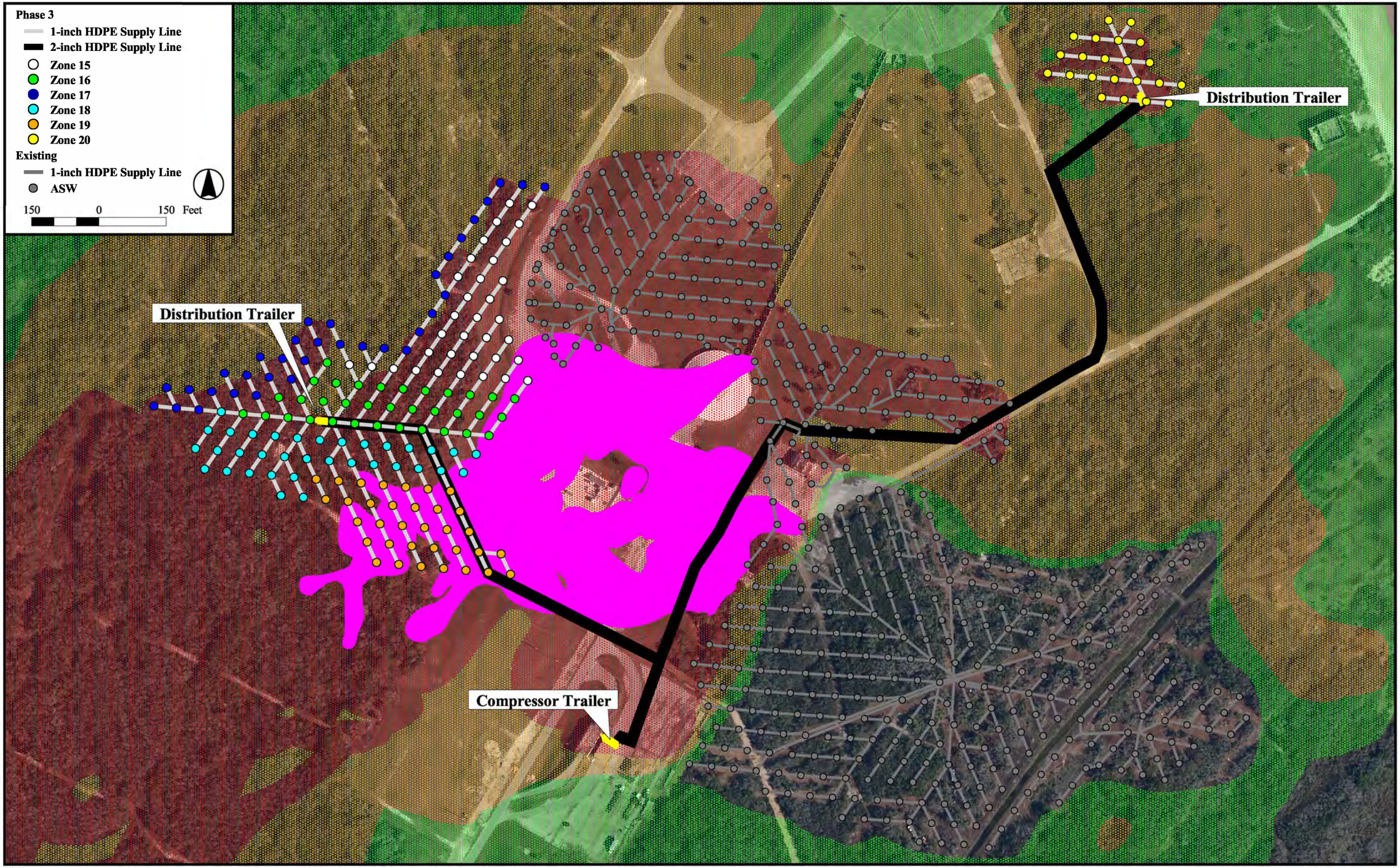
AIR SPARGE WELL DETAIL

NOT TO SCALE

Note: Well head will be direct buried with physical marker placed above grade

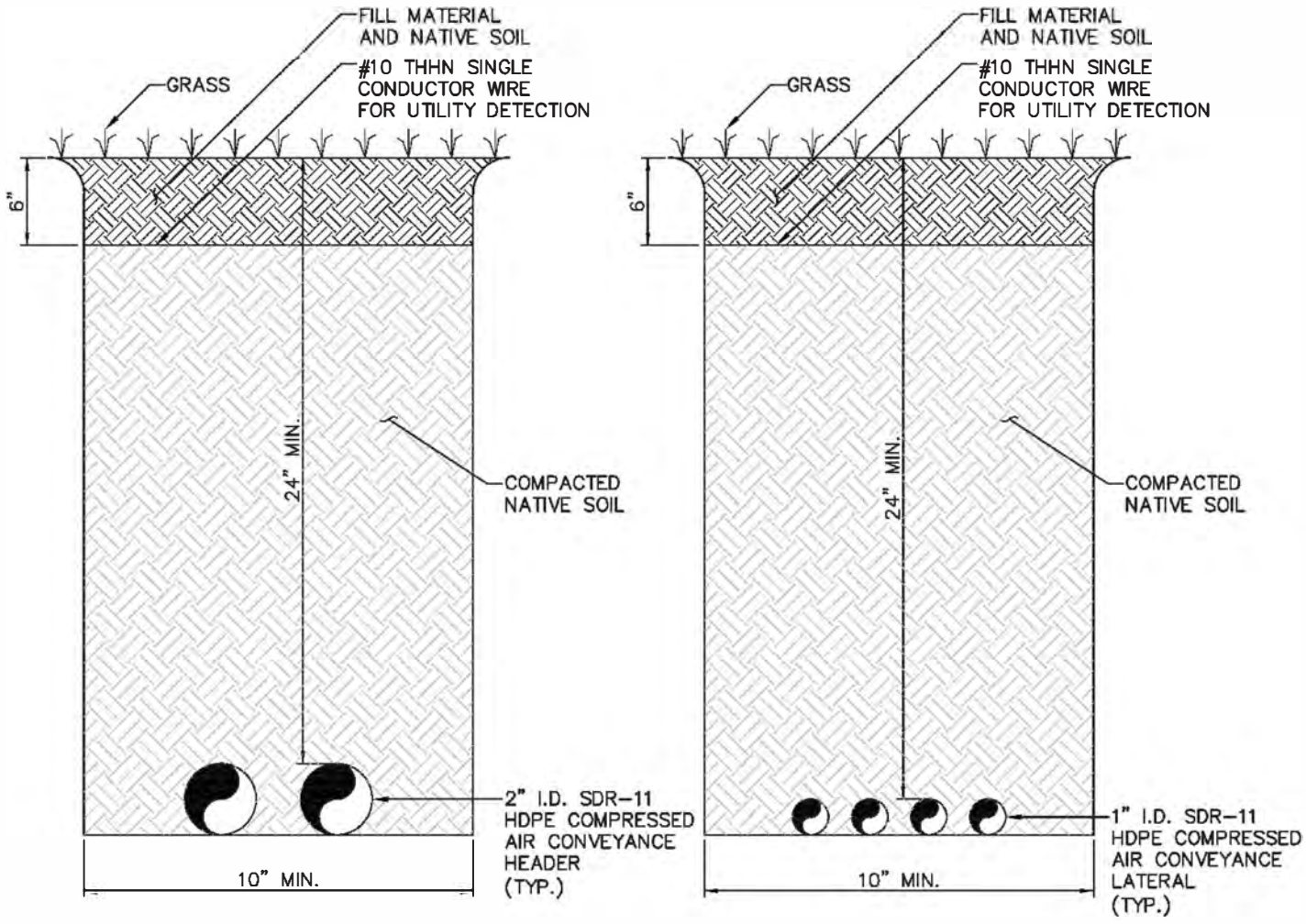
FIGURE A-14 HOT SPOT 6 EXPANSION - PHASE THREE - TRENCHING LAYOUT
SWMU CC054, LAUNCH COMPLEX 34, CAPE CANAVERAL SPACE FORCE STATION, FLORIDA

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Revision 0
April 2024



20240124

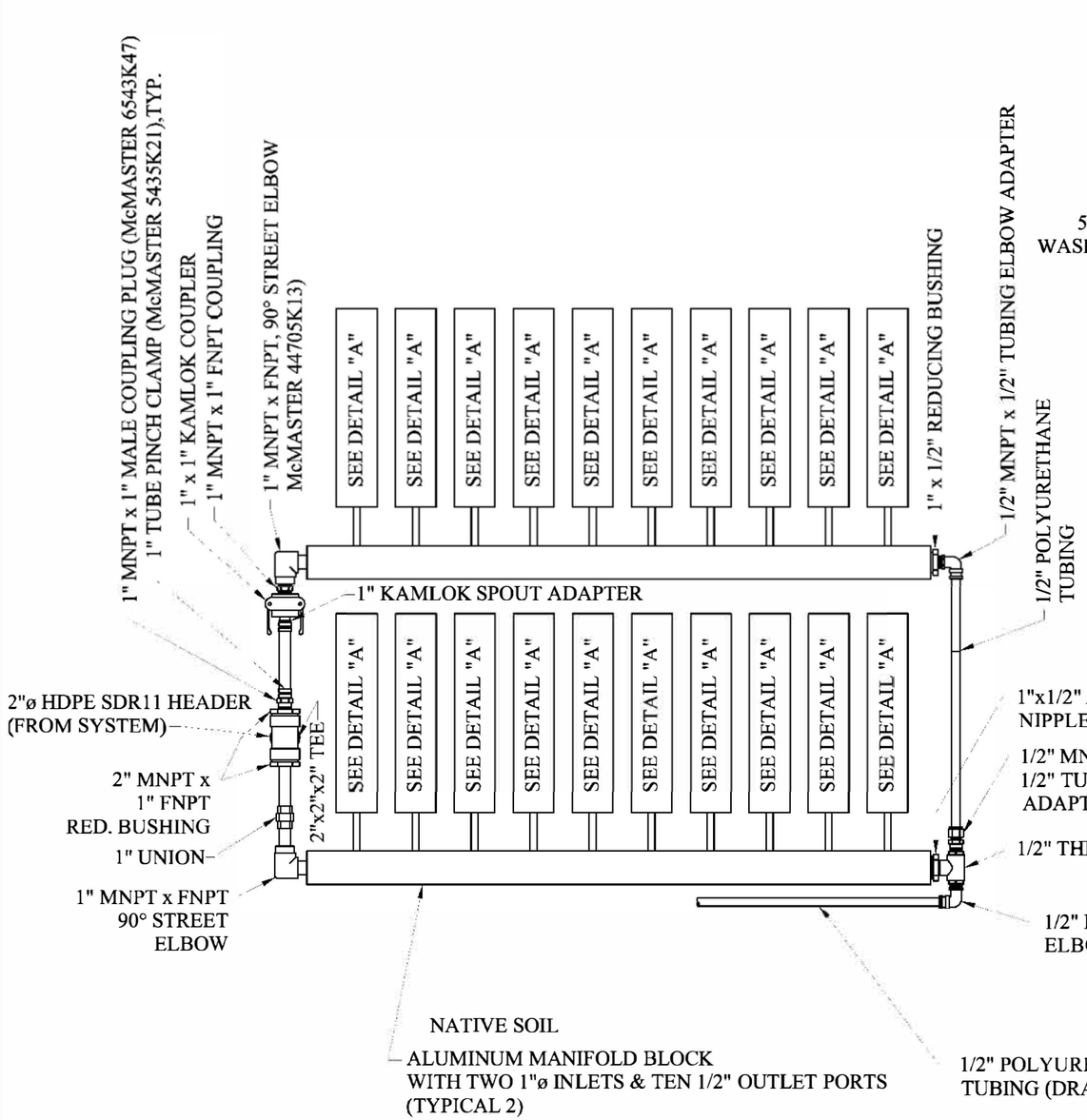
FIGURE A-15 TRENCH CROSS SECTION DETAILS
SWMU CC054, LAUNCH COMPLEX 34, CAPE CANAVERAL SPACE FORCE STATION, FLORIDA



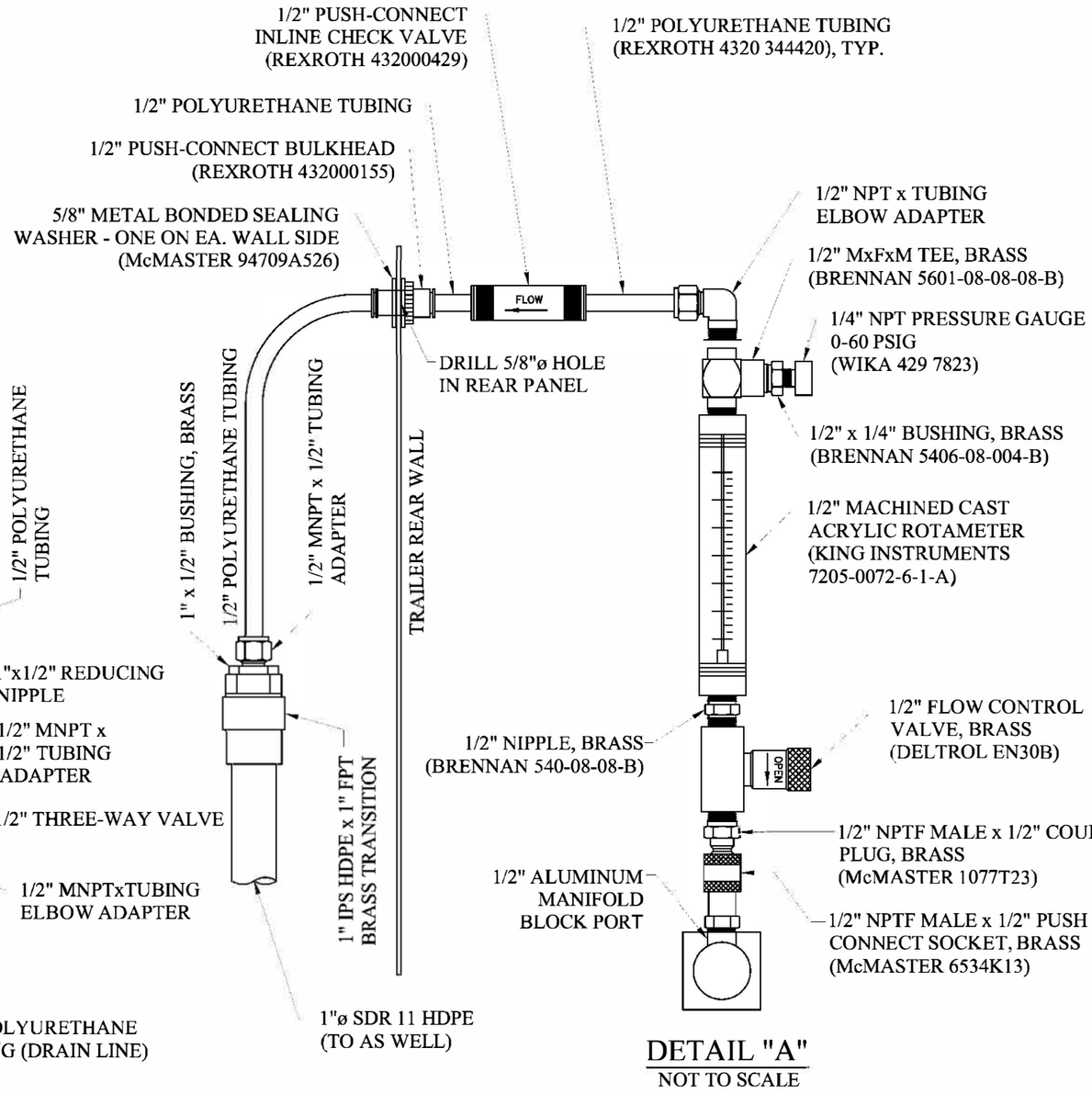
HEADER TRENCHING CROSS SECTION

LATERAL TRENCHING CROSS SECTION

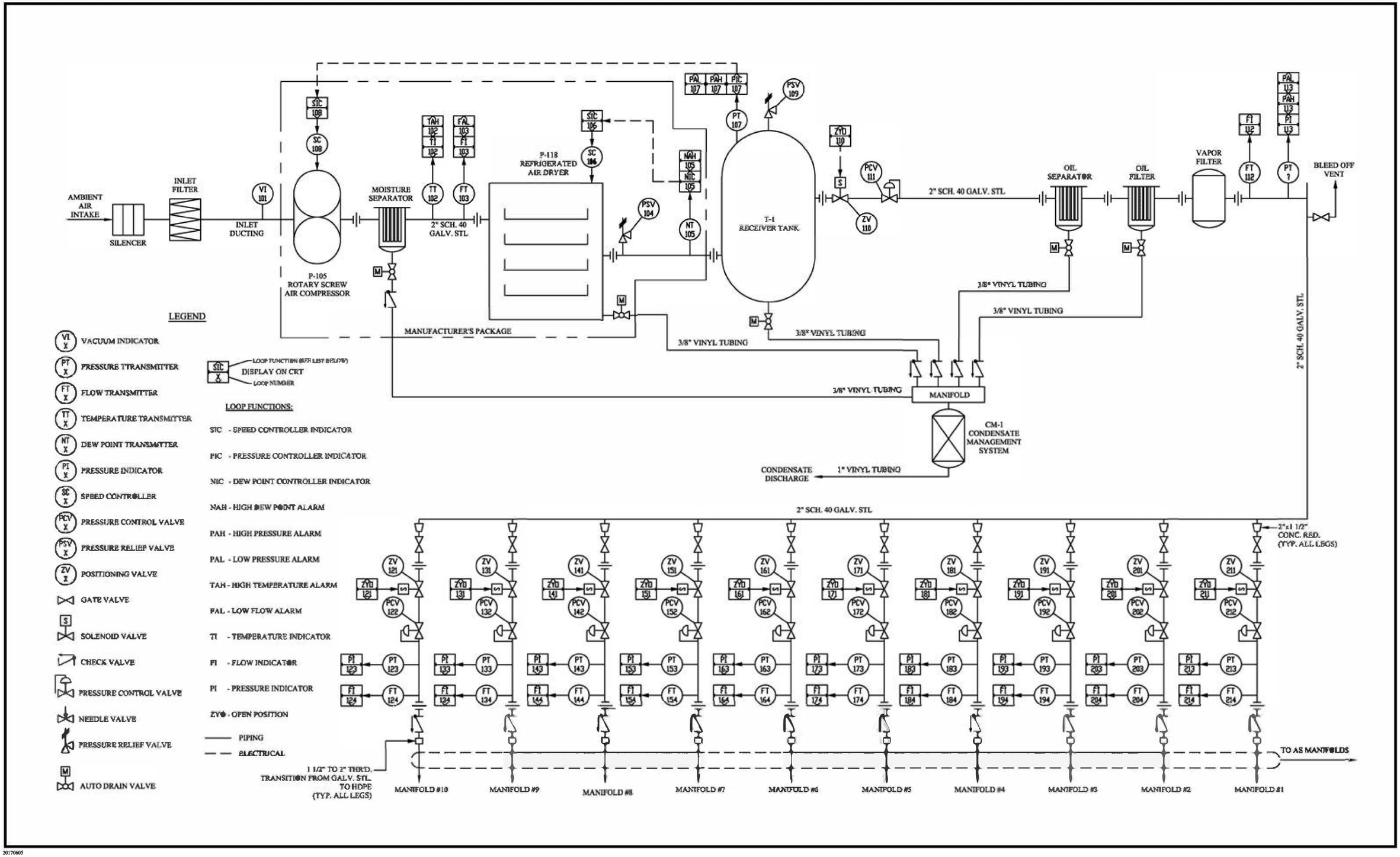
20240124



DISTRIBUTION MANIFOLD CONSTRUCTION DETAIL
NOT TO SCALE



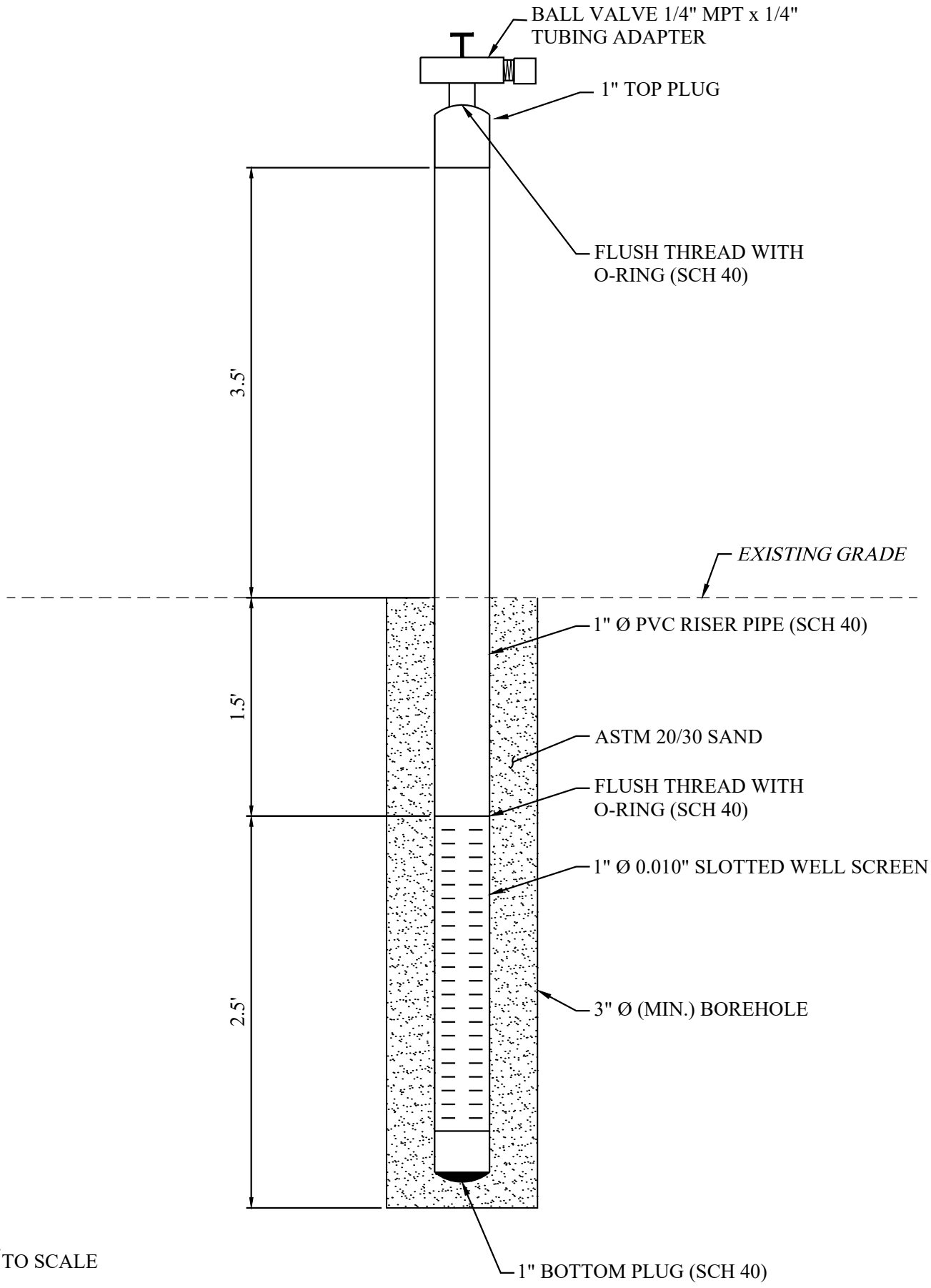
DETAIL "A"
NOT TO SCALE


AMBIENT AIR INTAKE
SILENCER
INLET FILTER
INLET DUCTING
VI 101
P-105 ROTARY SCREW AIR COMPRESSOR
MOISTURE SEPARATOR
TT 102
FT 103
2" SCH. 40 GALV. STL
P-118 REFRIGERATED AIR DRYER
PSV 104
NT 105
T-1 RECEIVER TANK
PSV 109
PT 107
ZV 110
PCV 111
S
2" SCH. 40 GALV. STL
OIL SEPARATOR
OIL FILTER
VAPOR FILTER
FT 112
PT ?
BLEED OFF VENT
MANUFACTURER'S PACKAGE
3/8" VINYL TUBING
MANIFOLD
CM-1 CONDENSATE MANAGEMENT SYSTEM
CONDENSATE DISCHARGE
1" VINYL TUBING
2" SCH. 40 GALV. STL
2"x1 1/2" CONC. RED. (TYP. ALL LEGS)
TO AS MANIFOLDS
1 1/2" TO 2" THRD. TRANSITION FROM GALV. STL. TO HDPE (TYP. ALL LEGS)
MANIFOLD #10
MANIFOLD #9
MANIFOLD #8
MANIFOLD #7
MANIFOLD #6
MANIFOLD #5
MANIFOLD #4
MANIFOLD #3
MANIFOLD #2
MANIFOLD #1
LEGEND
VACUUM INDICATOR
PRESSURE TTRANSMITTER
FLOW TRANSMITTER
TEMPERATURE TRANSMITTER
DEW POINT TRANSMITTER
PRESSURE INDICATOR
SPEED CONTROLLER
PRESSURE CONTROL VALVE
PRESSURE RELIEF VALVE
POSITIONING VALVE
GATE VALVE
SOLENOID VALVE
CHECK VALVE
PRESSURE CONTROL VALVE
NEEDLE VALVE
PRESSURE RELIEF VALVE
AUTO DRAIN VALVE
DISPLAY ON CRT
LOOP FUNCTION (SEE LIST BELOW)
LOOP NUMBER
LOOP FUNCTIONS:
SIC - SPEED CONTROLLER INDICATOR
PIC - PRESSURE CONTROLLER INDICATOR
NIC - DEW POINT CONTROLLER INDICATOR
NAH - HIGH DEW POINT ALARM
PAH - HIGH PRESSURE ALARM
PAL - LOW PRESSURE ALARM
TAH - HIGH TEMPERATURE ALARM
FAL - LOW FLOW ALARM
TI - TEMPERATURE INDICATOR
FI - FLOW INDICATOR
PI - PRESSURE INDICATOR
ZYO - OPEN POSITION
PIPING
ELECTRICAL

20170605

FIGURE A-18 VERTICAL VAPOR MONITORING POINT CONSTRUCTION DETAIL

SWMU CC054, LAUNCH COMPLEX 34, CAPE CANAVERAL SPACE FORCE STATION, FLORIDA



Note:
NOT TO SCALE

APPENDIX B

HOT SPOT AREA 6, PHASE THREE EXPANSION SITE CHARACTERIZATION ADP AND MEEETING MINUTES (FEBRUARY 2024)

Revision 1 Meeting Minutes for February 7, 2024

2402-M03 Mark Jonnet/Tetra Tech

Launch Complex 34 (SWMU CC054) Hot Spot Area 6 Phase Three Expansion Site Characterization

Objective: The goal of the Advanced Data Package (ADP) is to present results of the 2023 direct push technology (DPT) groundwater sampling and the proposed third phase expansion of the Hot Spot 6 air sparging interim measure (IM).

Discussion:

The Hot Spot 6 IM objective is to remediate contaminated groundwater (cis-1,2-dichloroethene [cDCE] and vinyl chloride [VC]) within the treatment zone to prevent impacts to the drainage ditch in the area (applicable to the initial IM phase) and support transition to monitored natural attenuation (MNA). The IM utilizes air sparging to remediate the contaminated groundwater outside the source zone hydraulic containment system. Air sparging is applied in the sandy Layers 1, 2, and 3 to a depth of approximately 40 ft bls, which is the top of Layer 4 that consists of gray silty sand and sandy clay w/shell fragments. The initial Hot Spot 6 IM consisted of implementation of 140 air sparging wells (ASWs) spaced linearly 50 feet, center-to-center, treating 7.5 acres; full-scale operations began in July 2018. The ASWs were constructed with 1-inch PVC with a 24-inch screen and were installed by sonic drilling methods; each ASW had a soil core extracted to determine the top of Layer 4 during installation. The radius of influence was assumed to be 25 feet at a flow rate of 5 cubic feet per minute (CFM) based on the success of similar treatment at CCB Hot Spot 3 at KSC (SWMU 089). Electrical service from the transformer (MOT-1) is 3-phase, 460-volt, 60-hertz, 800-amp service feed. Details for the compressor trailer are listed below. The Hot Spot 6 IM was expanded in early 2019 (Phase One expansion) with an additional 160 ASWs, which began full-scale operations in May 2019.

The compressor trailer components include a 75 horsepower (HP) variable frequency drive (VFD) Rotary Screw Air Compressor with an integrated refrigerated air dryer, coalescing and particulate filters, an oil/water separator, a 400-gallon receiver tank, 10 air distribution

manifolds, and has the capacity to operate 210 ASWs (70 ASWs per 8-hour cycle).

Performance sampling was conducted quarterly for the first three years of operations then semi-annually since October 2021 at 28 monitoring wells and three surface water locations within the drainage ditch. Based on the April 2023 sampling event, the highest cDCE and VC concentrations have decreased from 53,800 µg/L and 13,600 µg/L to 7,300 µg/L and 5,600 µg/L respectively. Based on the April 2023 performance results, 15.1 acres of the treatment area have decreased to less than groundwater cleanup target levels (GCTLs), leaving the upgradient plume edge adjacent to the Hydraulic Containment System (IWs 134 and 135) exceeding GCTLs. The Baseline and April 2023 performance results are summarized on Slide 16 and include: 1) Surface water sample locations were below detection limits, 2) Perimeter wells beyond the treatment area had detections exceeding GCTLs in 3 of the 7 wells, and 3) Monitoring wells within the treatment area had detections exceeding 10 times the natural attenuation default concentration (10xNADC) of cDCE and/or VC in 2 (IWs 134 and 135) of the 21 wells, and the remaining wells were less than GCTLs.

The Hot Spot 6 IM Phase Two was expanded including an additional 190 ASWs treating an additional 11.2 acres. Treatment was discontinued in 252 ASWs where performance results were less than GCTLs when Phase Two began full-scale operations on August 27, 2023. Currently 190 ASWs in the Phase Two area and 48 ASWs on the leading edge of the former treatment area are operating. Performance sampling is conducted quarterly at 21 wells in the Phase Two area and semi-annually in the former treatment area. Based on the November 2023 sampling event, the highest cDCE and VC concentrations have decreased from 6,500 µg/L and 3,800 µg/L to 3,900 µg/L and 3,100 µg/L respectively.

The objective of the 2023 Hot Spot assessment was to delineate areas exceeding 10 times NADC, also referred to as “Hot Spot” criterion in Area #1 and Area #2. The investigation area was beyond the one-year capture zone for the Hydraulic Containment System, as shown on Slide 24. Samples were collected using DPT methods and analyzed by a fixed based laboratory. The Area #1 dataset includes results from 314 samples collected from 49 locations. Freon was not detected in any samples, Trichloroethene (TCE) exceeded GCTL in

16 samples with a sample also exceeding NADC, tDCE exceeded GCTL in 18 samples with two samples also exceeding NADC, and cDCE and VC were detected at concentrations exceeding GCTL and NADCs, and VC exceeded 10 times NADCs. The Area #2 dataset includes results from 275 samples collected from 44 locations. Freon was not detected in any samples, TCE exceeded GCTL in two samples, tDCE exceeded GCTL in five samples, and cDCE and VC were detected at concentrations exceeding GCTL and NADCs, and VC exceeded 10 times NADCs. Results for TCE (within the adjacent source zone), cDCE, and VC are presented on figures for 0 to 10 ft below land surface (bls), 10 to 15 ft bls, 15 to 20 ft bls, 20 to 28 ft bls, 28 to 34 ft bls, 34 to 40 ft bls, and greater than 40 ft bls, as well as vertical profiles. With the exception of southern edge of Area #1 Hot Spot concentrations (10 times NADCs) have been horizontally delineated. Areas #1 and #2 vertical profiles demonstrate Hot Spot vertical delineation for each contaminant.

Based on the success of air sparging in the existing Hot Spot 6 area, which has remediated 15.1 of the 15.7 acres to less than GCTLs, NASA is proposing to expand the existing Hot Spot 6 IM to include the 9.4 acres shown on Slide 61. The Area #1 Hot Spot is adjacent to the existing treatment area and is delineated horizontally and vertically. The proposed treatment area has an estimated mass of 435 pounds, composed of cDCE and VC. The Area #2 Hot Spot is delineated horizontally and vertically. The proposed treatment area has an estimated mass of 34 pounds, composed of cDCE and VC Soil vapor extraction (SVE) is not being proposed for either treatment area based on an estimated remediation timeframe of more than one year, and the total estimated mass of 469 pounds being less than the Hazardous Air Pollutants emission limits of a single and total contaminants of 1,000 and 2,500 pounds annually. The proposed expansion includes an additional 207 ASWs constructed of 1-inch PVC and screened 33 to 35 ft bls, which will be installed by sonic drilling methods and spaced linearly 50 feet, center-to-center. The radius of influence and flows will be 25 feet at a flow rate of 5 CFM. The 185 ASWs in Area #1 will be split into five manifolded zones and the 22 ASWs in Area #2 will be operated as one zone, each being supplied by a two-inch high-density polyethylene (HPDE) supply line from the existing compressor. One-inch HDPE lines will supply each ASW from the manifold distribution trailer. The maximum pressure in Area #1 of 36.8 psi includes 18.5 psi at the well head, 0.4 psi for the longest one-inch HDPE (750 feet)

supply line, 5 psi for ancillary equipment, and 12.9 psi for the two-inch HPDE supply line. The maximum pressure in Area #2 of 30.8 psi includes 18.5 psi at the well head, 0.1 psi for the longest one-inch HDPE (250 feet) supply line, 5 psi for ancillary equipment, and 7.2 psi for the two-inch HPDE supply line. The existing compressor is capable to support the expansion, once GCTLs are attained in the second expansion phase treatment will be discontinued and phase three expansion will come online. The Area #1 proposed expansion includes baseline and performance sampling of 17 existing wells depicted on Slide 65 and installation of 6 wells in Area #2. Performance sampling would continue to be quarterly with the collection of field parameters and samples submitted for VOC analysis via EPA Method 8260B.

The Team reached consensus that Area #1 was adequately delineated horizontally and vertically to support the expansion of the Hot Spot 6 Air Sparging Interim Measure (IM) (**2402-D02**).

The Team reached consensus that Area #2 is adequately delineated horizontally and vertically to support expansion of the HS6 AS IM (**2402-D03**).

The Team reached consensus on the implementation of the Phase 3 expansion of the Hot Spot 6 Air Sparging IM based on this ADP and submission of the Implementation Work Plan to FDEP, which will include what was reviewed today and IW0053D and 6 new monitoring wells (**2402-D04**).

Results: Decision 2402-D02, D03, D04

Hot Spot Area 6, Launch Complex 34 (LC34), SWMU CC054
Phase Three Expansion Site Characterization

TETRA TECH



February 2024

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This Advance Data Package (ADP) was prepared for NASA to aid in evaluation of site conditions and remedial actions. This is not a decision document. New information may come to light that makes this ADP outdated.

Objectives

Overview

- The presentation will focus on the installation and operation of the Hot Spot 6 (HS6) Air Sparge System Phase Two Expansion as well as the DPT investigation conducted for the Phase Three Expansion

Background

- Site History focused on groundwater investigation and remediation
- Lithology and groundwater flow direction

HS6 Interim Measures

- Prior to Phase Two Expansion
- Phase Two Expansion
- Hot Spot Assessment
- Proposed Phase Three Expansion

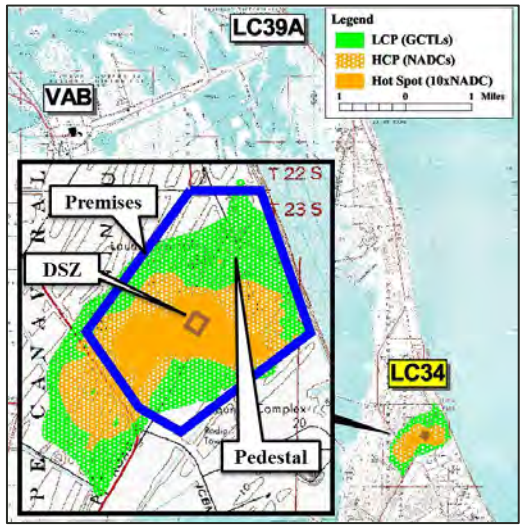
Team Consensus:

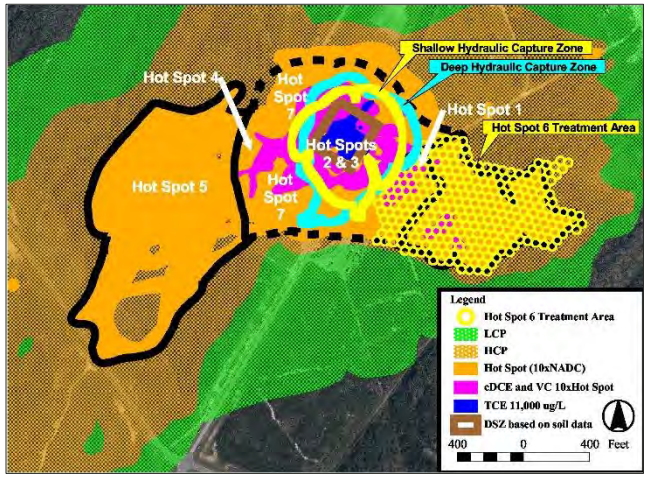
- Implement the Phase 3 expansion of the Hot Spot 6 Air Sparging IM based on this ADP and submission of the Implementation Work Plan to FDEP

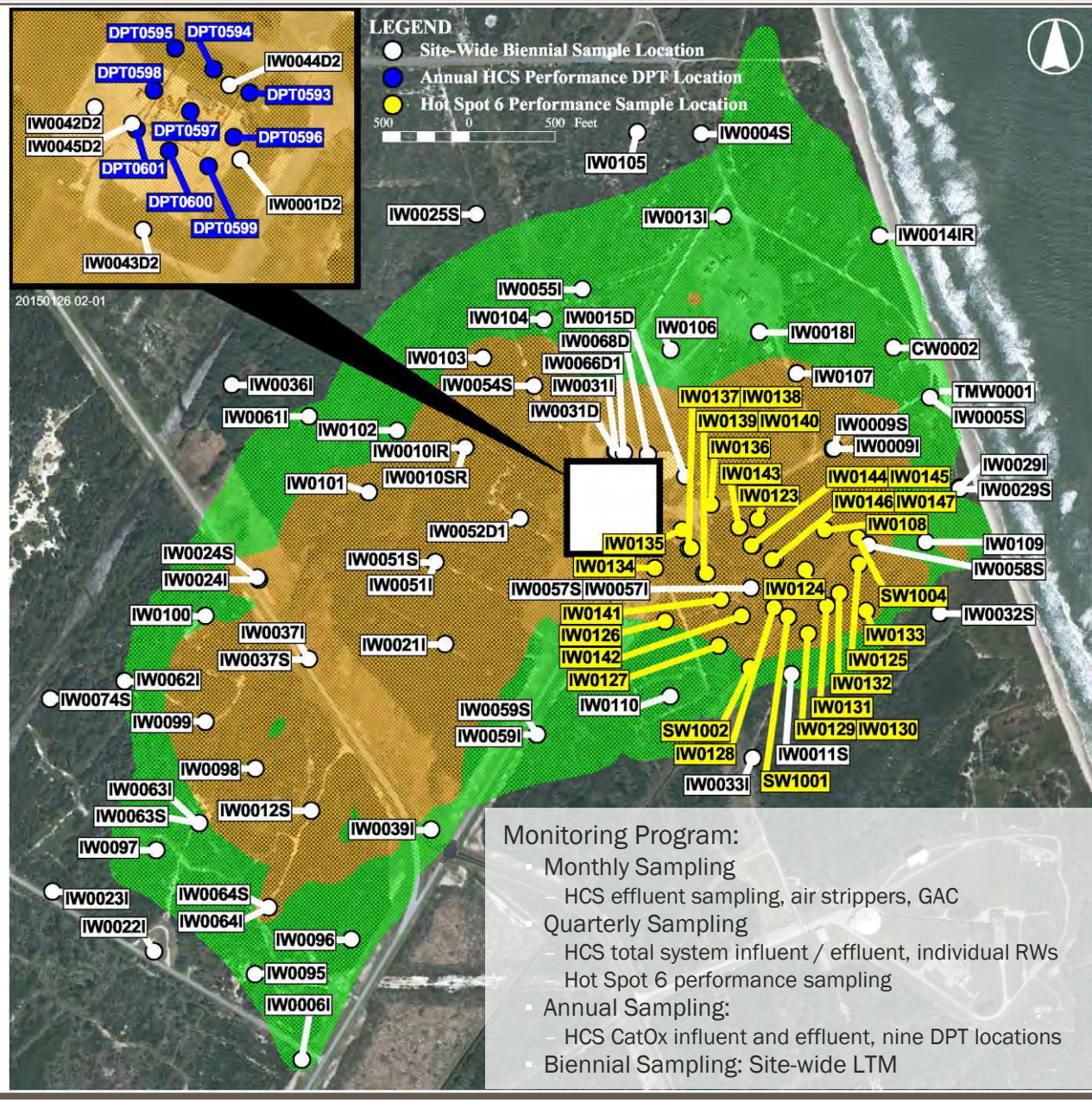


Site History

- Located on a barrier island bounded by the Banana River and Atlantic Ocean
- Pedestal is a regular stop for the KSC Visitor Bus and CCSFS tours
- The Air Force has issued NASA a permit granting the privilege for the use of real property and facilities referred to as the “Premises” for environmental restoration
- Current plume footprint: 315 acres ≥ GCTLs, low concentration plume (LCP); 157 acres ≥ NADCs, high concentration plume (HCP); 53 acres ≥ 10xNADC, Hot Spot; 9 acres ≥ 10x Hot Spot
- The 2.0-acre DNAPL source zone (DSZ) was originally characterized using soil data, included significant dissolved and sorbed mass TCE > 300 mg/kg and transition zone to 100 mg/kg and recharacterized in 2018-2019 with groundwater data where TCE > 11,000 µg/L







Monitoring Program:
- Monthly Sampling
  - HCS effluent sampling, air strippers, GAC
- Quarterly Sampling
  - HCS total system influent / effluent, individual RWs
  - Hot Spot 6 performance sampling
- Annual Sampling:
  - HCS CatOx influent and effluent, nine DPT locations
- Biennial Sampling: Site-wide LTM

Site History

Construction of Complex 34 began in 1959, designed to support NASA's Saturn 1 and 1B programs

Seven launches between 1961 and 1968

- Historical records suggest TCE used to flush rocket engines and for precision cleaning of spaceflight hardware

1967: Apollo 1 cabin fire during a launch rehearsal test taking the lives of Grissom, White, and Chaffee

1972: Service structures and operational equipment scrapped, leaving majority of on-site buildings and structures abandoned-in-place

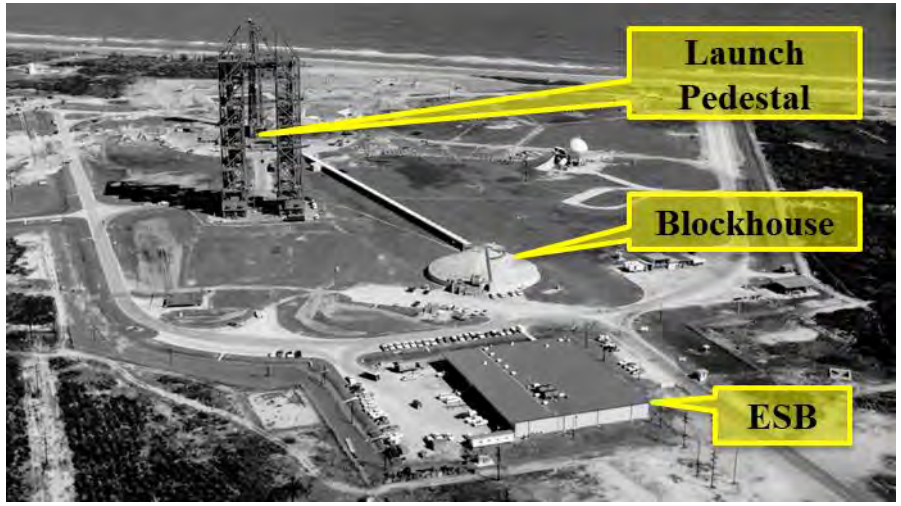
1984: Declared part of the Man In Space National Historic Landmark

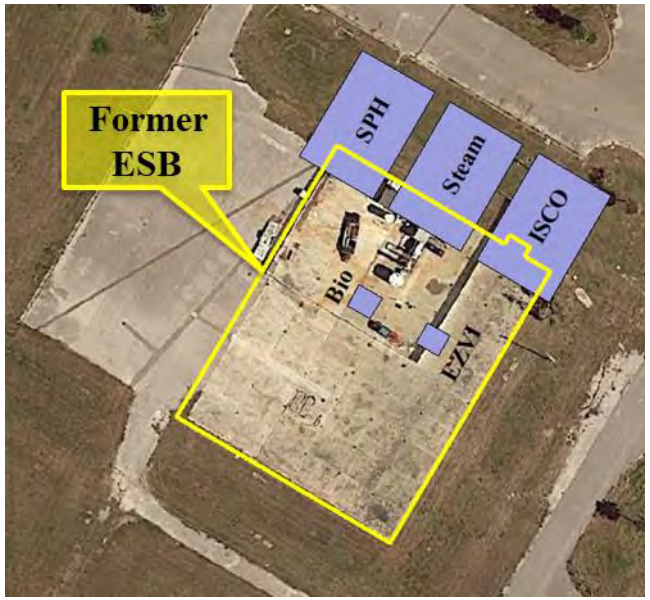
1990s: Environmental investigations revealed chlorinated solvent contamination including dense non-aqueous phase liquid (DNAPL) in groundwater

1999 to 2003: In situ remediation demonstration projects at the Engineering Support Building (ESB) included test cells for:

- Chemical Oxidation (ISCO), TCE reduction of 12,700 pounds (43' bls)
- Six-Phase Heating (SPH), TCE reduction of 22,719 pounds (43' bls)
- Steam Injection, TCE reduction of 23,629 pounds (43' bls)
- Emulsified zero-valent iron (EZVI), TCE reduction of 40 pounds (16' to 24' bls)
- Bioaugmentation, TCE reduction of 60 pounds (16' to 24' bls)

2004: Groundwater long-term monitoring (LTM) and corrective measures study (CMS) initiated





Site History (Groundwater Contamination)

2007: CMS recommended corrective action alternative

- P&T to provide hydraulic containment of the DSZ,
- MNA with supplemental investigations and follow-up Interim Measures to target CVOC Hot Spots in the HCP,
- MNA in the LCP
- LUCIP to prohibit groundwater use

2008: IM Design for Hydraulic Containment of the DSZ and Deep TCE Groundwater Plume

2009:

- Began groundwater investigation(s) to refine Hot Spot delineation, ongoing
- Installation and operation of the DSZ Hydraulic Containment System (HCS)

2015: Cat-Ox Refurbishment and HCS Expansion

2016: Hot Spot 6 Site Characterization (cDCE and VC exceeded NADCs and 10xNADCs)

2018: Hot Spot 6 Air Sparging IM implemented

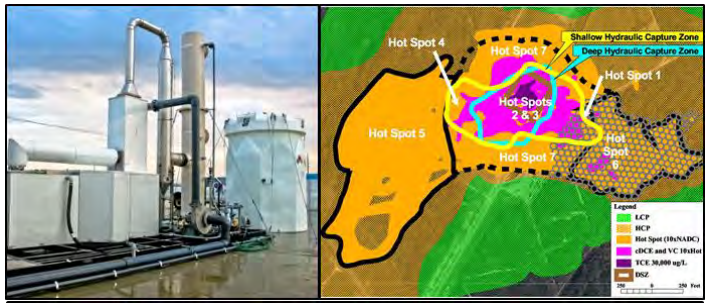
2019: DSZ Supplemental Site Characterization

2020: Hot Spot 6 Expansion Phase Two Work Plan

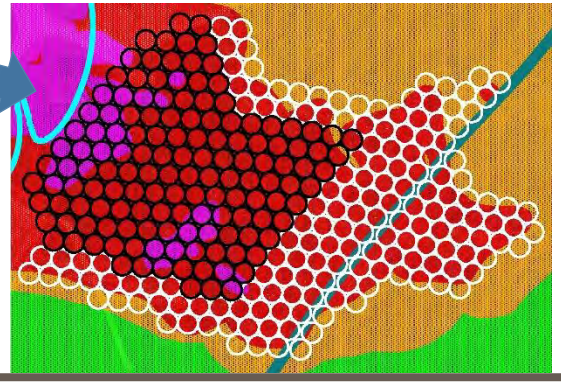
2022: DNAPL Source Zone Remedial Alternate Evaluation (RAE) and Pilot Study

2023:

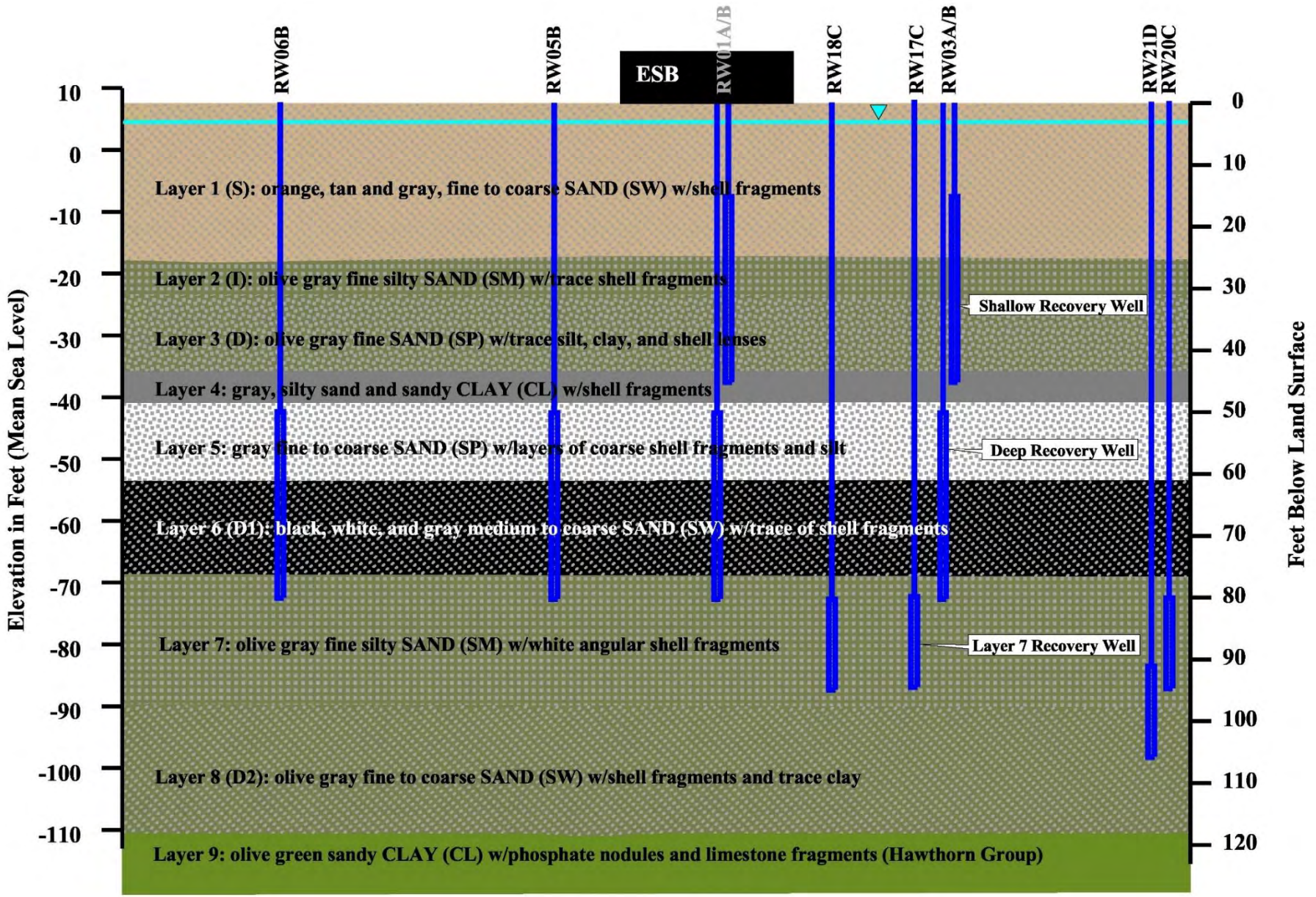
- Hot Spot 6 Expansion Phase Two Work Plan
- Installed and began operation RW21D to address TCE in IW162



- IM Objective: Hydraulically control the DSZ and TCE HCP within Hot Spots 2, 3, and 4 by hydraulic containment and ex-situ treatment
- Current process system components:
  - 10 shallow recovery wells (~15 to 45 ft bls)
  - 7 deep recovery wells (~50 to 80 ft bls)
  - 5 deeper recovery wells (80 to 95 ft bls)
  - 1 deeper recovery well (86 to 106 ft bls)
  - Equalization tank and discharge pump
  - Air stripping, discharge pump, and carbon treatment
  - Catalytic oxidizer and scrubbing unit
  - Deep well injection and infiltration gallery discharge
- To date 335 million gallons have been processed and 94,300 pounds of VOCs have been destroyed



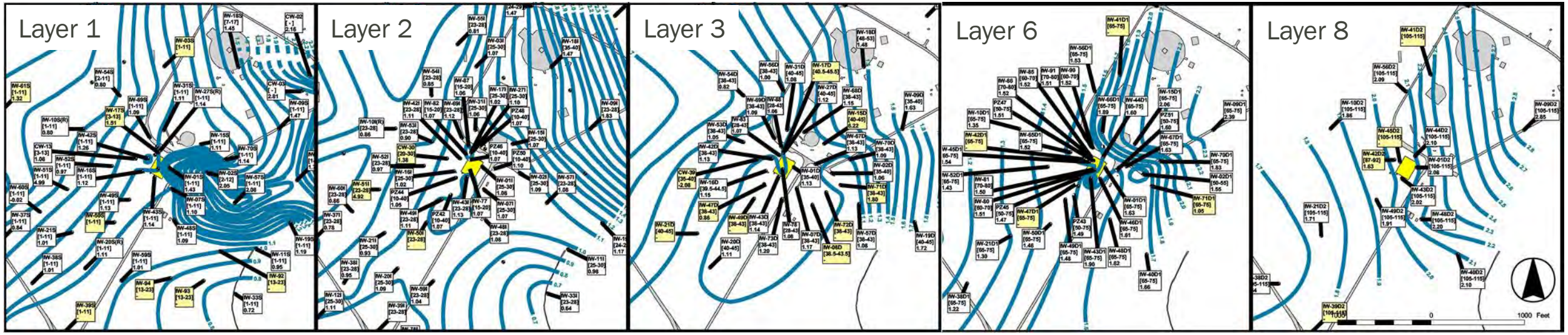
Lithology with Recovery Wells



Lithology

Layer	Description	Photo
1 (S)	orange, tan and gray, fine to coarse SAND (SW) w/shell fragments	
2 (I)	olive gray fine silty SAND (SM) w/trace shell fragments	
3 (D)	olive gray fine SAND (SP) w/trace silt, clay, and shell lenses	
4	gray, silty sand and sandy CLAY (CL) w/shell fragments	
5	gray fine to coarse SAND (SP) w/layers of coarse shell fragments and silt	
6 (D1)	black, white, and gray medium to coarse SAND (SW) w/trace shell fragments	
7	olive gray fine silty SAND (SM) w/white angular shell fragments	
8 (D2)	olive gray fine to coarse SAND (SW) w/shell fragments and trace clay	Description from Deep Soil Coring completed in 2002, no photos available
9	olive green sandy CLAY (CL) w/phosphate nodules and limestone fragments (Hawthorn Group)	

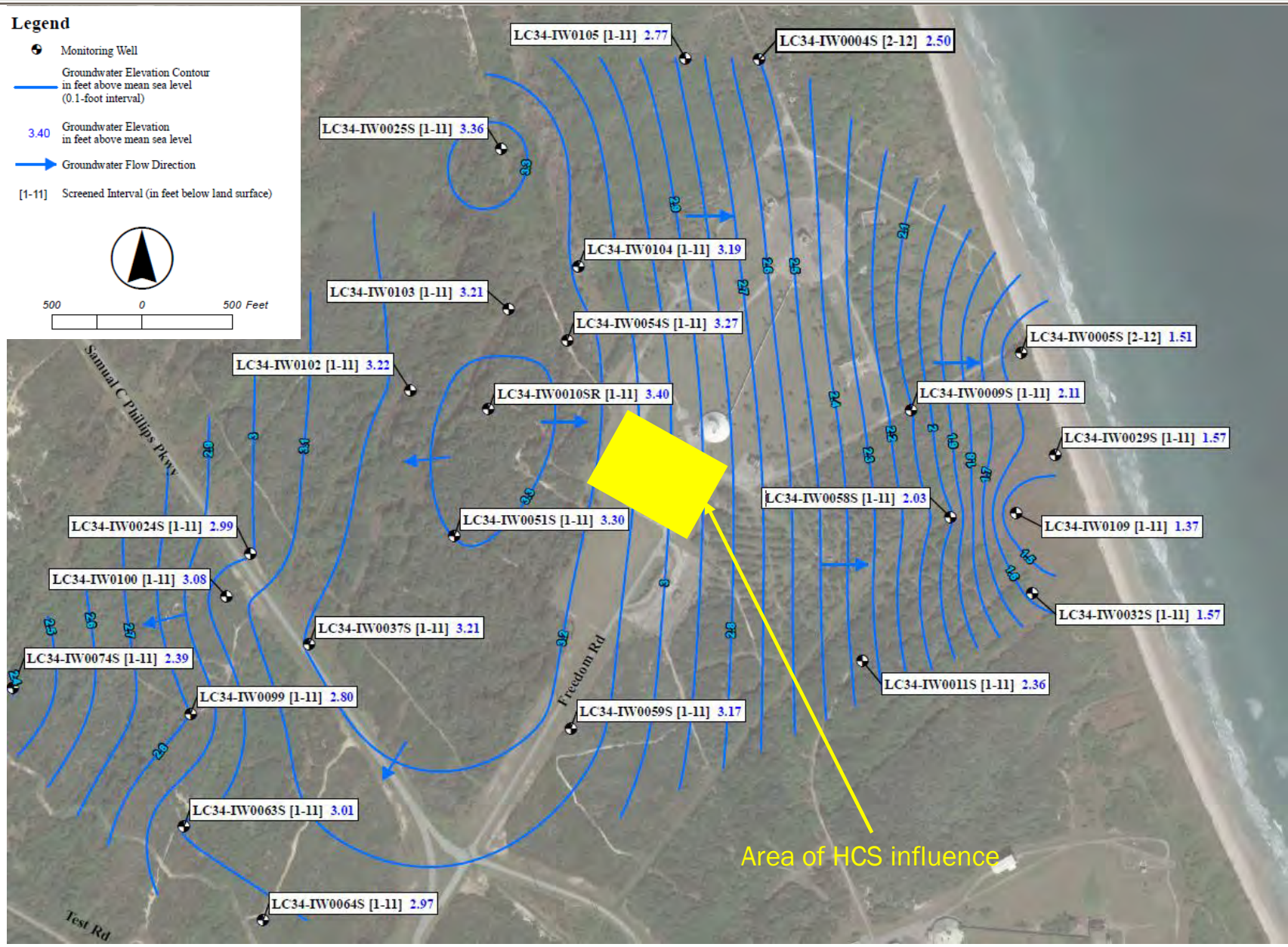
Site Overview: Groundwater Contours



- Potentiometric maps show groundwater flow patterns prior to HCS operation in December 2009
- In the shallow intervals (Layers 1, 2, and 3) there is localized groundwater mounding near the HCS Compound
- In the deep intervals (Layers 6 and 8) flow is generally to the southeast, southwest, and west
- Decision to discontinue water levels was made during April 2012 KSCRT Meeting (1204-M13, Decision 1204-D24)
- Water levels were collected February 22, 2023 at sampled wells during biennial LTM event (Layers 1 and 2) contoured to verify consistency with historic readings (shown on next slides)

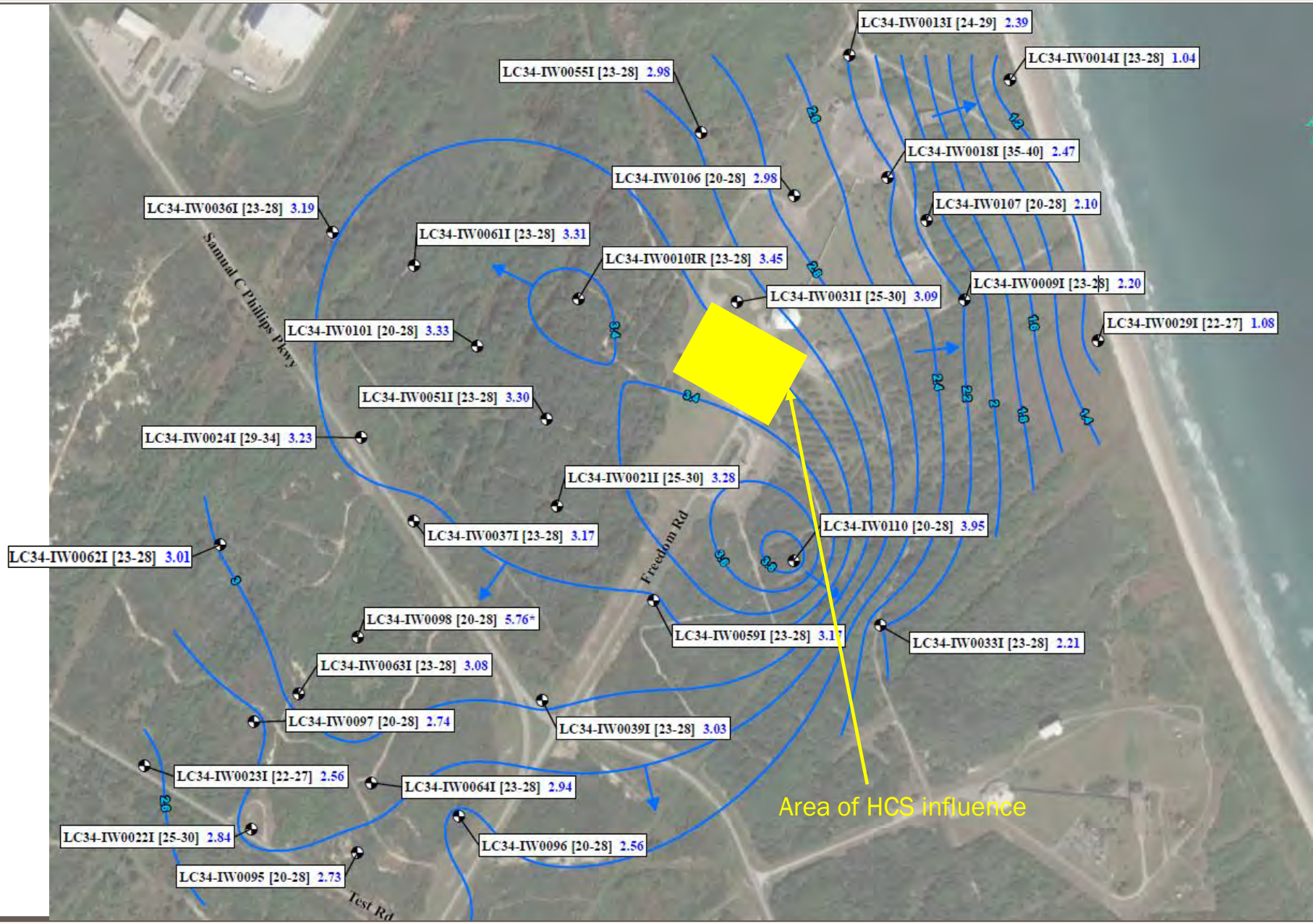
Site Overview: Groundwater Contours

- Layer 1 (screened 0 to 25 ft bls)
- 24 biennial LTM wells used for contouring
- Elevations ranged from 1.37 feet above mean sea level (ft amsl) in well IW0109 to 3.40 ft amsl in well IW0010SR
- Flow is radial at wells IW0025S and IW0010SR. Generally, flow is to the east towards the Atlantic Ocean on eastern half of site and generally flows west on western half of site.
- Wells used for contouring were outside of the HCS influence area



Site Overview: Groundwater Contours

- Layer 2 (screened 25 to 30 ft bls)
- 30 biennial LTM wells used for contouring
- IW0098 damaged, not used for contouring
- Elevations ranged from 1.04 ft amsl in well IW0014I to 3.95 ft amsl in well IW0110
- Groundwater flow appears to be radial from wells IW0010IR and IW0110. Generally, flow is to the east towards the Atlantic Ocean on eastern half of site and generally flows southwest on western half of site
- Wells used for contouring were beyond influence of the HCS



Hot Spot 6 Interim Measure Air Sparge System Overview

COCs: cDCE and VC exceeding 10xNADCs

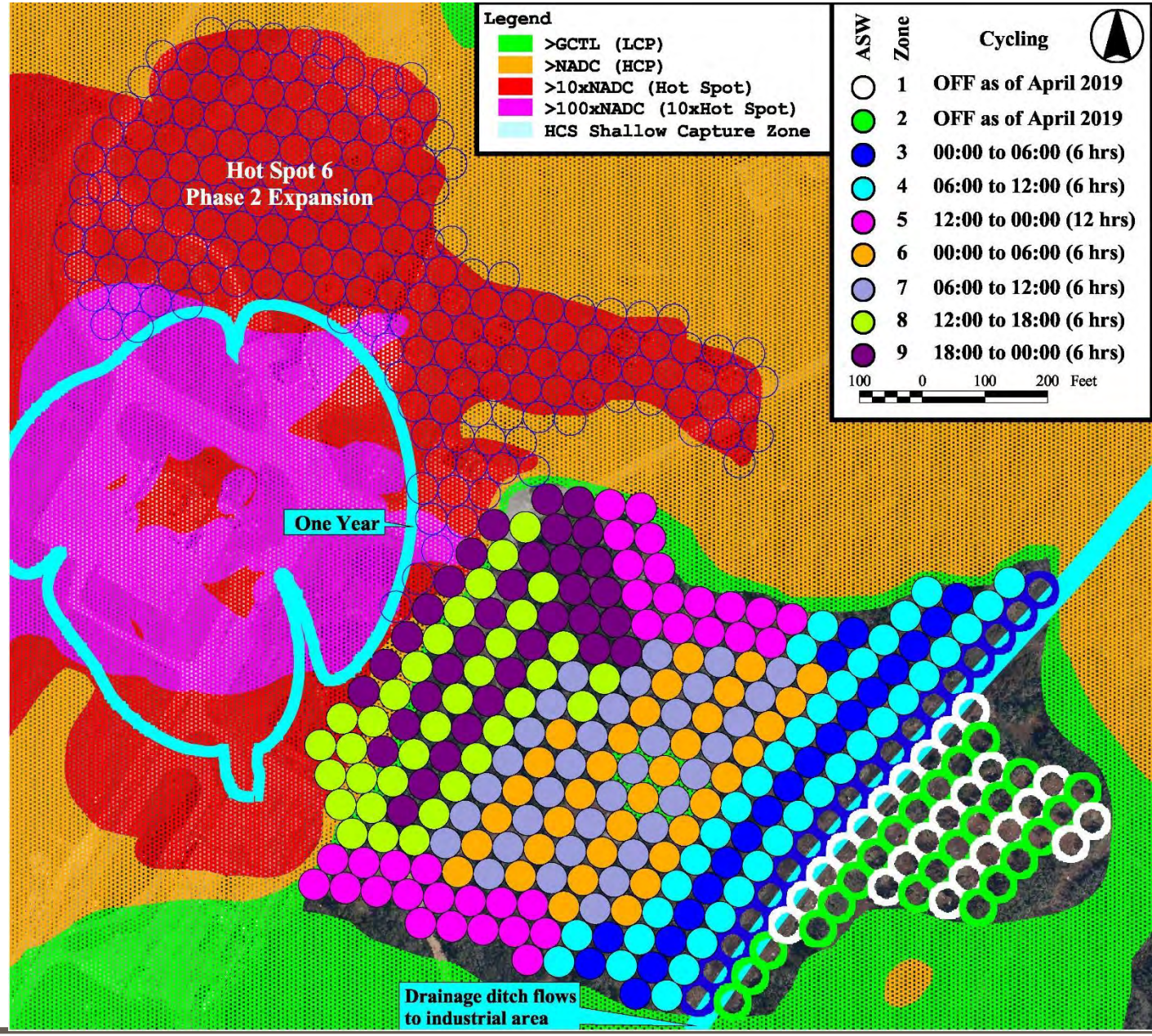
Objective: To remediate contaminated groundwater within treatment zone to prevent impacts to drainage ditch and support transition to MNA

Operations:

- Full-scale operations of initial 9 zones:
  - Zones 1 to 5 began July 2018
  - Zones 6 to 9 began May 2019
- System Design
  - 300 AS Wells (ASWs) in 9 treatment zones
    - Zones 1 and 2 turned off April 2019
    - Selected wells in Zones 3 and 4 turned off January 2020
    - Operated 199 ASWs from January 2020 through July 2023
  - Installation depth ~40' bls (Top of Layer 4)
  - 25' ROI, spaced 50' on center (c/c)
  - 5 CFM per ASW

Sampling Plan

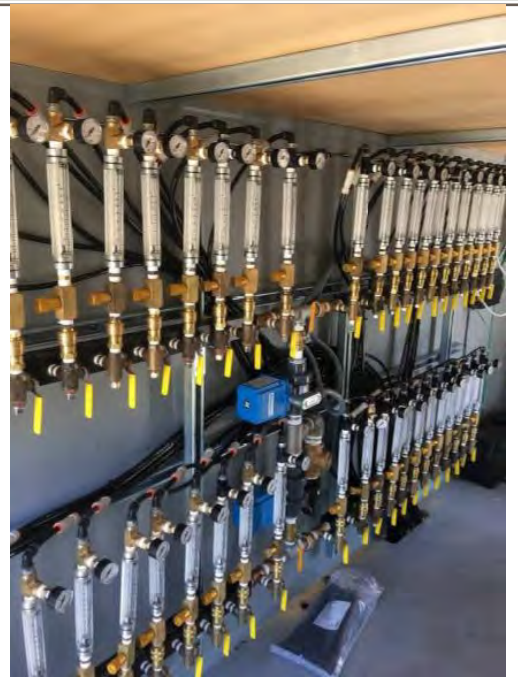
- Baseline sampling events July 2018 and May 2019
- Performance sampling
  - Initially quarterly events to January 2021
  - Frequency reduced to semi-annual events based on results
  - All events included sampling 28 MWs and 3 SWs for VOCs and field parameters



Hot Spot 6 Interim Measure Air Sparge System Overview



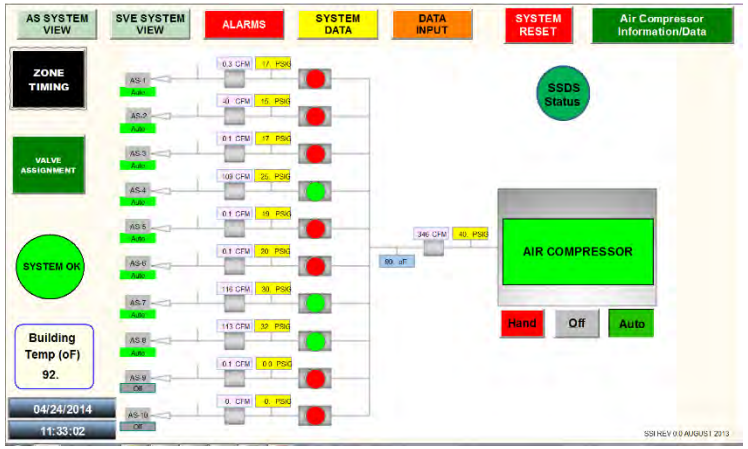
Compressor Trailer



Manifold Trailer

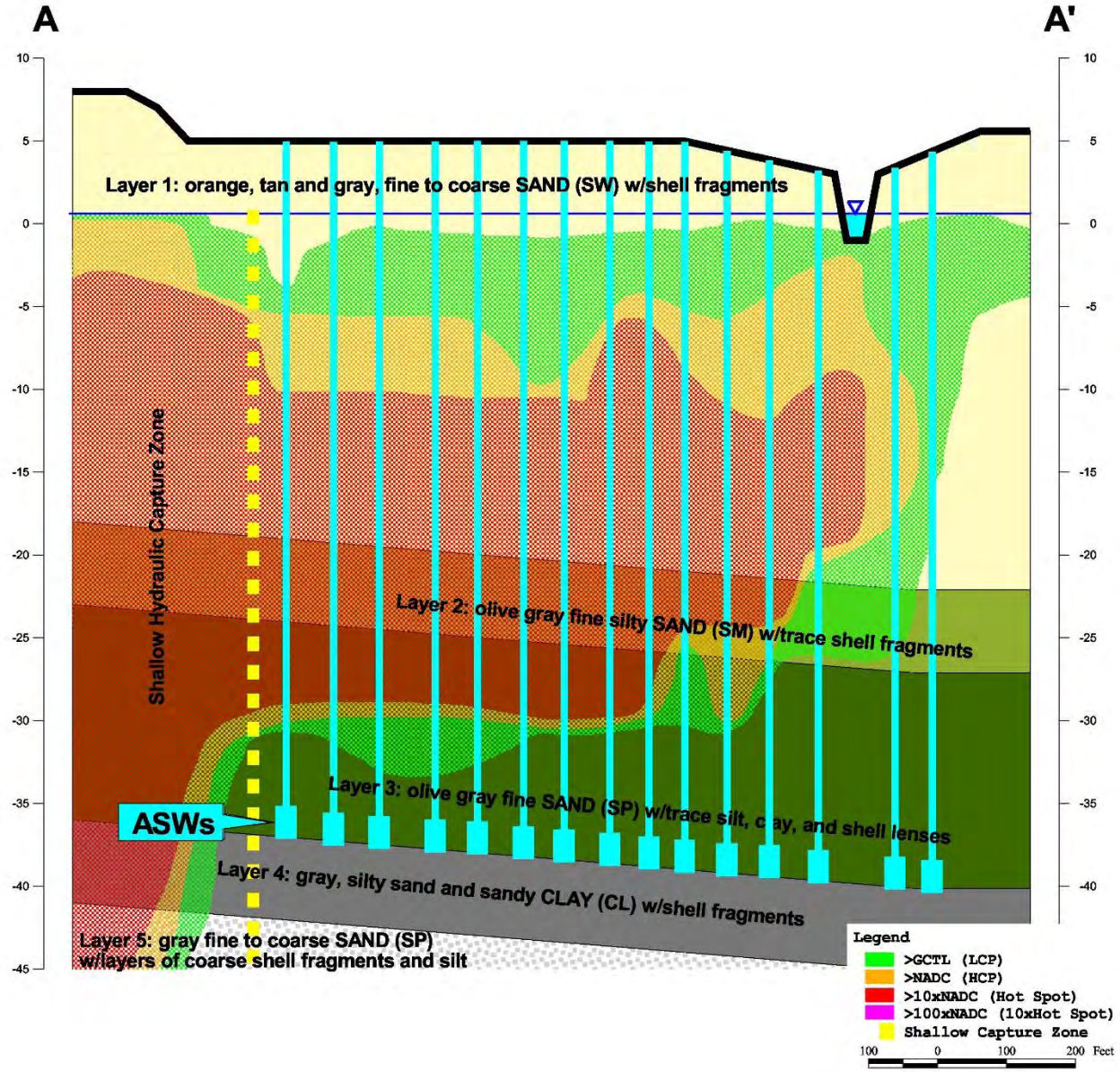
Compressed air is distributed from compressor trailer via 2” HDPE lines to three manifold trailers to 1” HDPE lines to individual ASWs

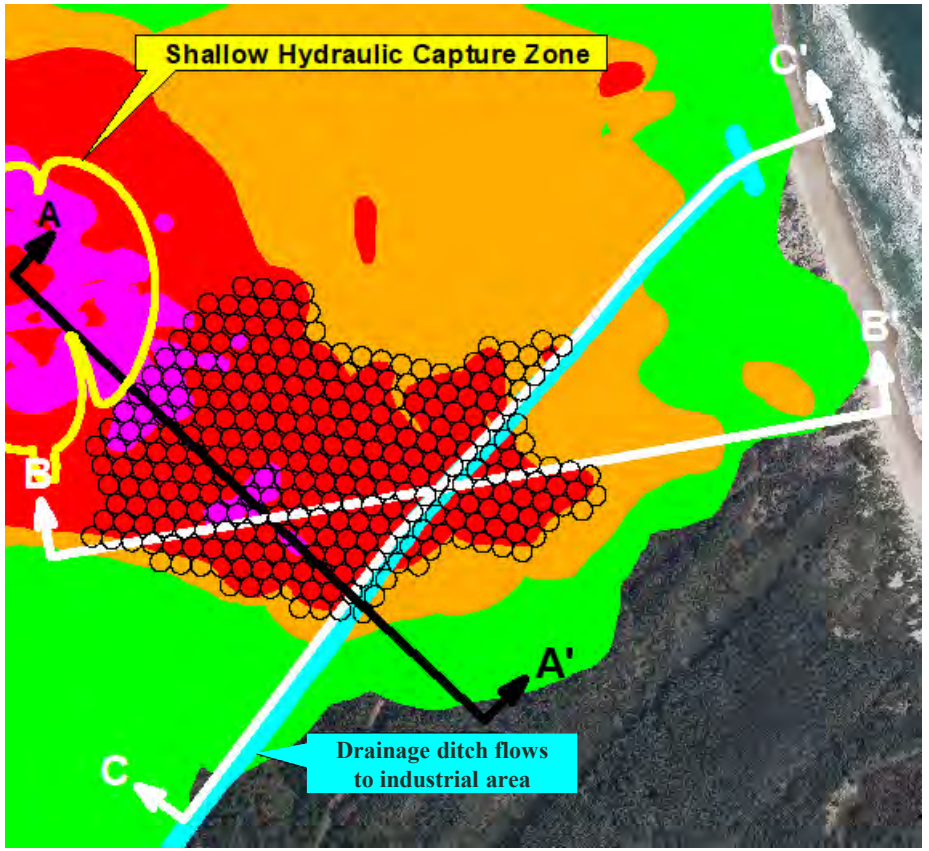




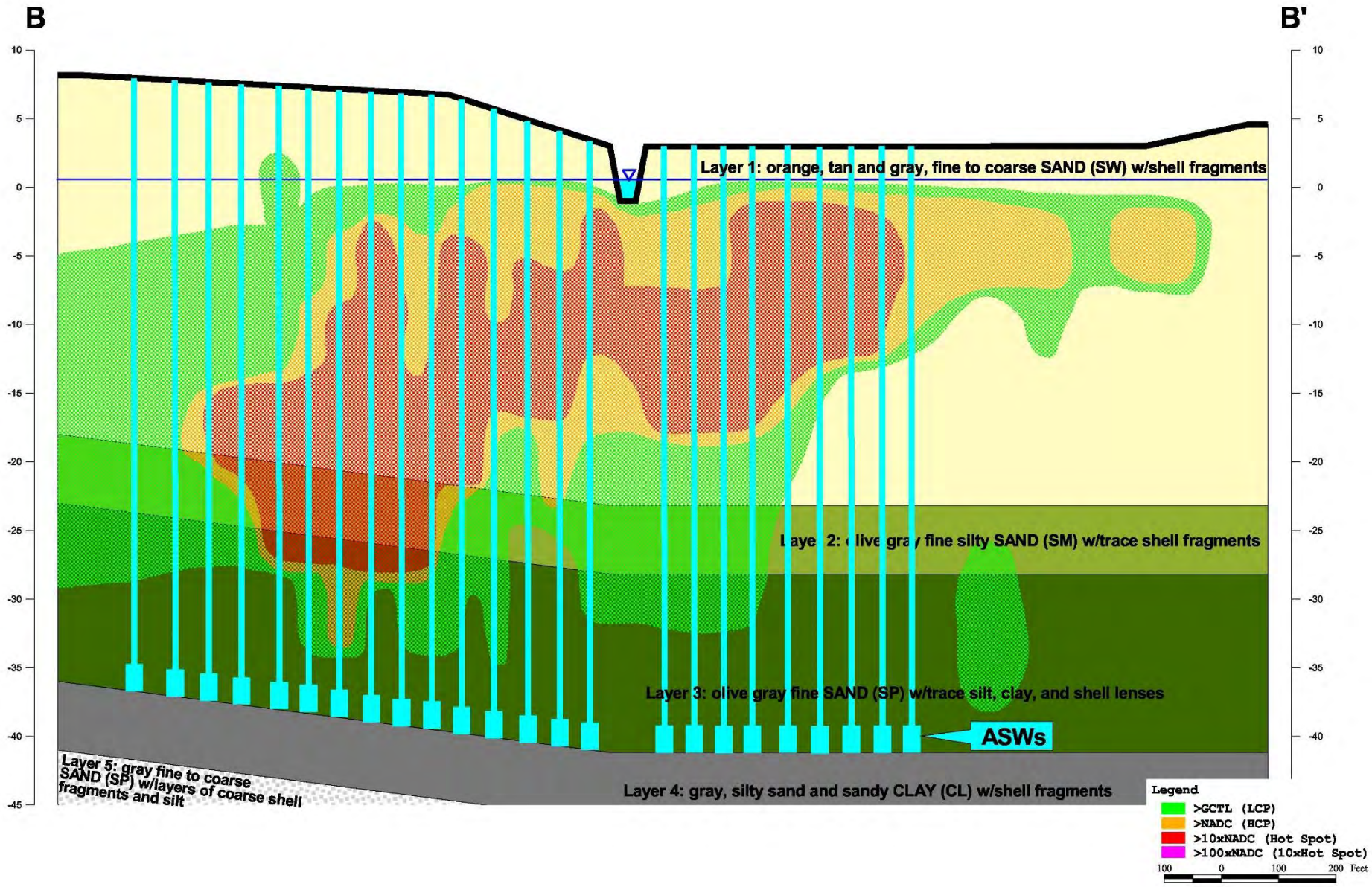
System HMI

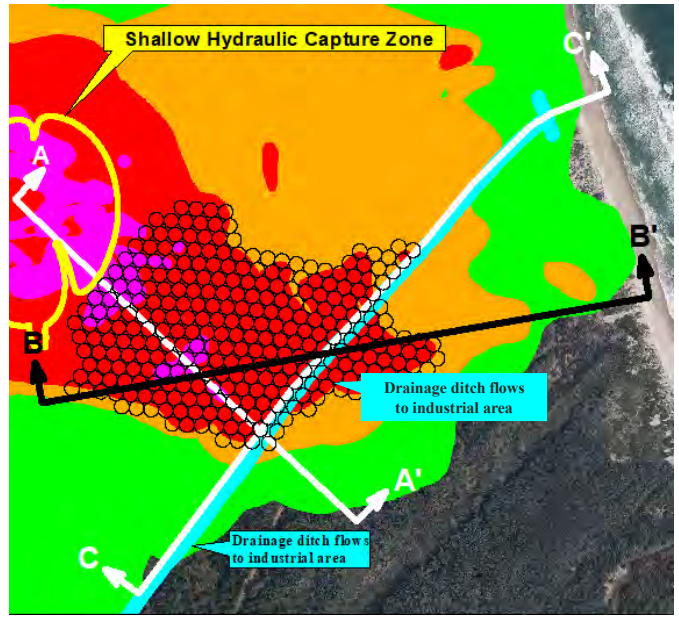
Hot Spot 6 Interim Measure Air Sparge System Overview



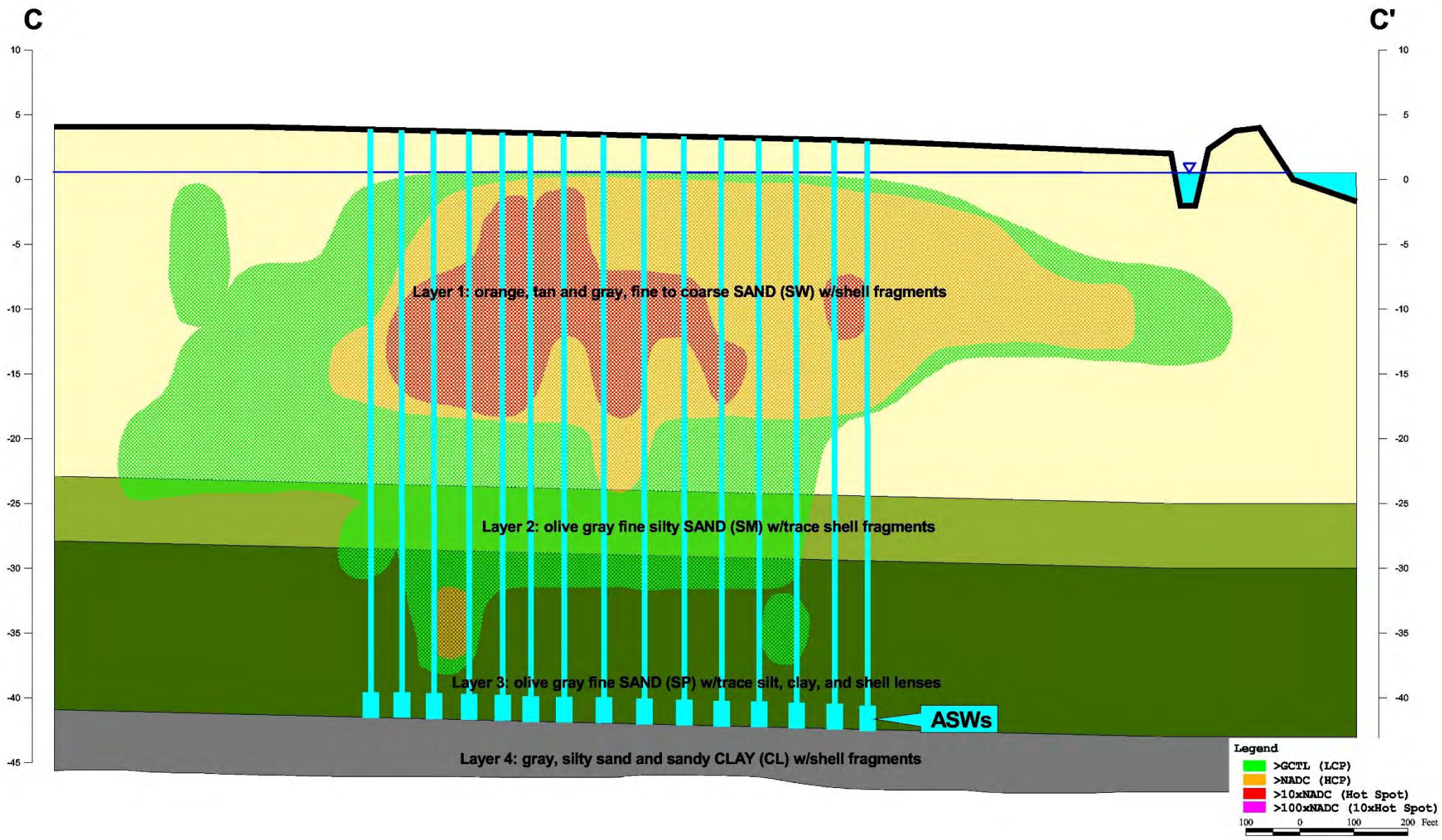


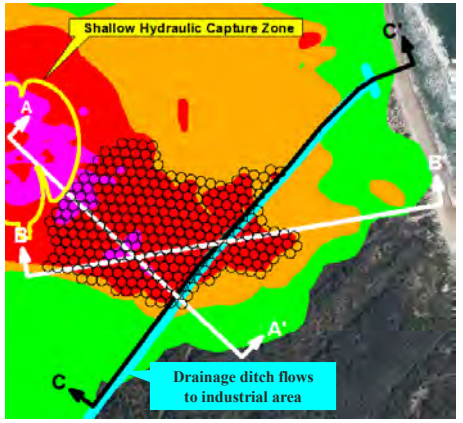
Hot Spot 6 Interim Measure Air Sparge System Overview





Hot Spot 6 Interim Measure Air Sparge System Overview

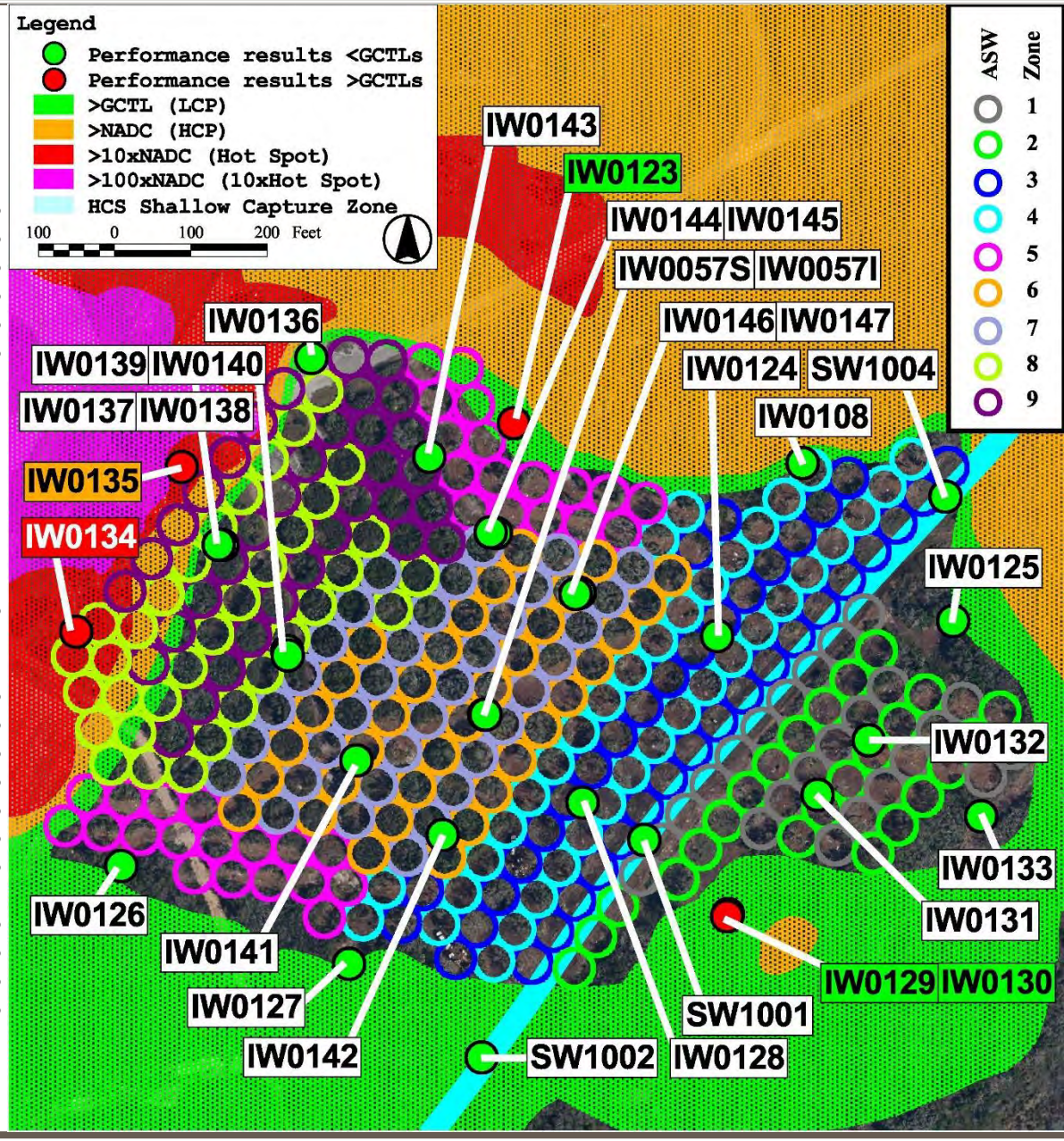




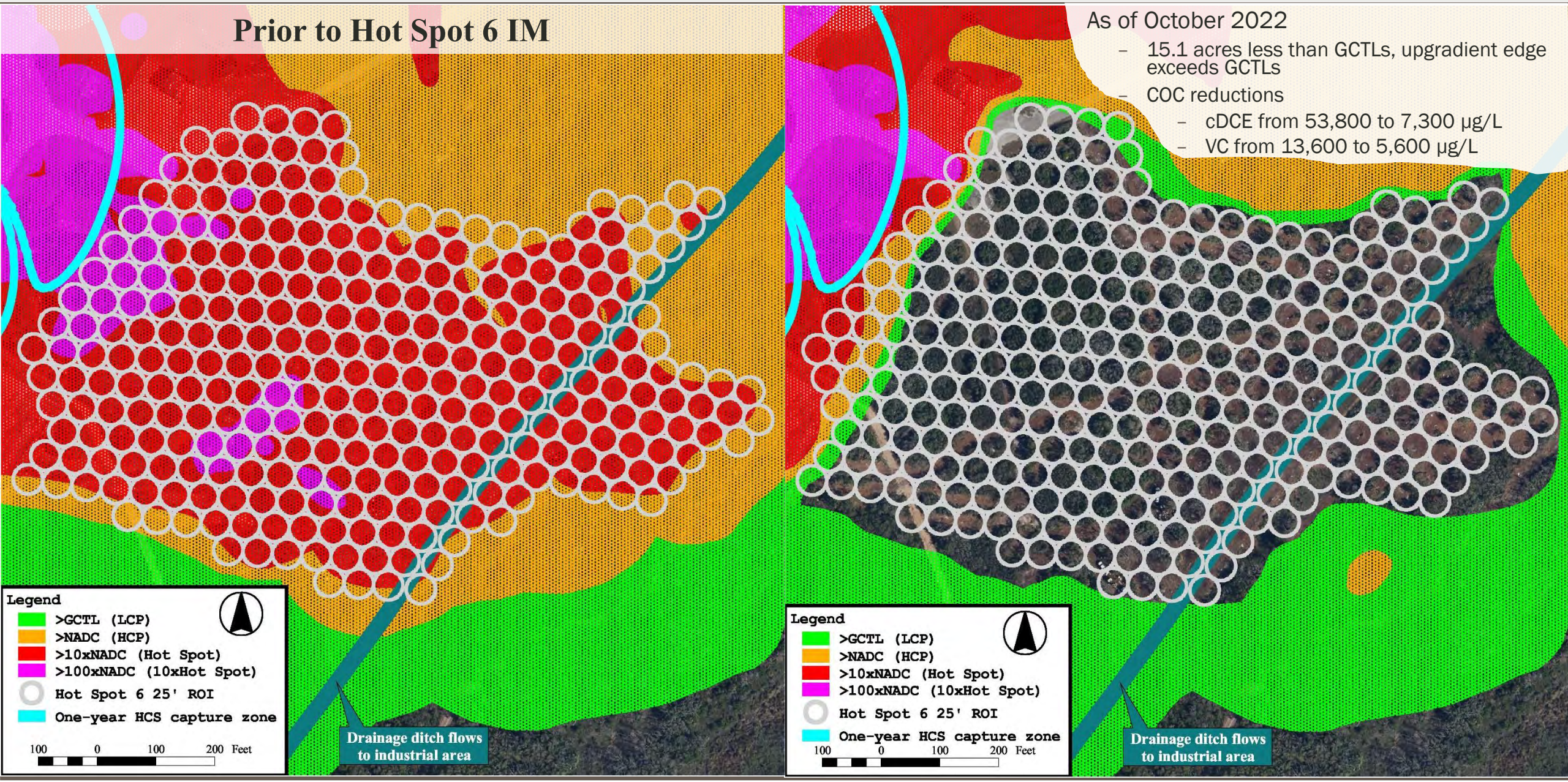
Hot Spot 6 Interim Measure Air Sparge System Overview

	Date:	Jun 2018	Oct 2018	Jan 2019	Mar 2019	Apr 2019	Jul 2019	Oct 2019	Jan 2020	Apr 2020	Jul 2020	Oct 2020	Jan 2021	Apr 2021	Oct 2021	Apr 2022	Oct 2022	Apr 2023	Baseline cDCE	Baseline VC	Apr 2023 cDCE	Apr 2023 VC	Reductions cDCE	Reductions VC
Ditch	SW1001	✓	✓	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	37	79	0.3	0.5	99%	99%
Ditch	SW1002	✓	✓	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	22	94	0.7	0.5	97%	99%
Ditch	SW1004	✓	✓	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	1	212	0.2	0.5	NA	100%
Treatment	IW0108	✓	✓	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	1	306	0.2	0.5	NA	100%
Treatment	IW0124	✓	✓	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	75	1,280	0.2	0.5	100%	100%
Treatment	IW0128	✓	✓	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	4,030	3,050	0.2	0.5	100%	100%
Treatment	IW0131	✓	✓	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	15	1,350	0.5	0.8	97%	100%
Treatment	IW0132	✓	✓	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	11	1,130	0.8	0.5	93%	100%
Perimeter	IW0123	✓	✓	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	4,530	1,000	22	5	100%	99%
Perimeter	IW0125	✓	✓	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	5	2	0.3	0.5	94%	79%
Perimeter	IW0126	✓	✓	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	3	6	0.4	0.5	89%	91%
Perimeter	IW0127	✓	✓	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	32	43	0.2	0.5	99%	99%
Perimeter	IW0129	✓	✓	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	1	54	0.5	3	NA	94%
Perimeter	IW0130	✓	✓	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	1	69	0.7	14	NA	80%
Perimeter	IW0133	✓	✓	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	4	1	2	0.5	33%	NA
Treatment	IW0057S	-	-	-	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	63	73	0.3	0.5	100%	99%
Treatment	IW0057I	-	-	-	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	15,400	5,900	2	0.5	100%	100%
Treatment	IW0134	-	-	-	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	20,300	8,900	7,300	5,600	64%	37%
Treatment	IW0135	-	-	-	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	53,800	10,700	770	1,100	99%	90%
Treatment	IW0136	-	-	-	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	240	520	2	0.5	99%	100%
Treatment	IW0137	-	-	-	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	36,600	4,100	5	0.7	100%	100%
Treatment	IW0138	-	-	-	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	48,400	13,600	3	0.6	100%	100%
Treatment	IW0139	-	-	-	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	4,300	1,800	0.2	0.5	100%	100%
Treatment	IW0140	-	-	-	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	4,000	3,600	0.2	0.5	100%	100%
Treatment	IW0141	-	-	-	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	5,600	5,600	0.2	0.5	100%	100%
Treatment	IW0142	-	-	-	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	2,900	6,700	0.2	0.5	100%	100%
Treatment	IW0143	-	-	-	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	650	3	8	0.5	99%	83%
Treatment	IW0144	-	-	-	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	1,900	410	1.1	0.5	100%	100%
Treatment	IW0145	-	-	-	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	3,900	930	0.5	0.5	100%	100%
Treatment	IW0146	-	-	-	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	3,000	310	0.2	0.5	100%	100%
Treatment	IW0147	-	-	-	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	4,400	1,200	0.2	0.5	100%	100%
																		Average overall reduction:				95%	95%

NA = Not Available. Concentrations negligible to calculate a reduction
Yellow shading indicates max concentrations for sampling event



Hot Spot 6 Interim Measure Air Sparge System Overview



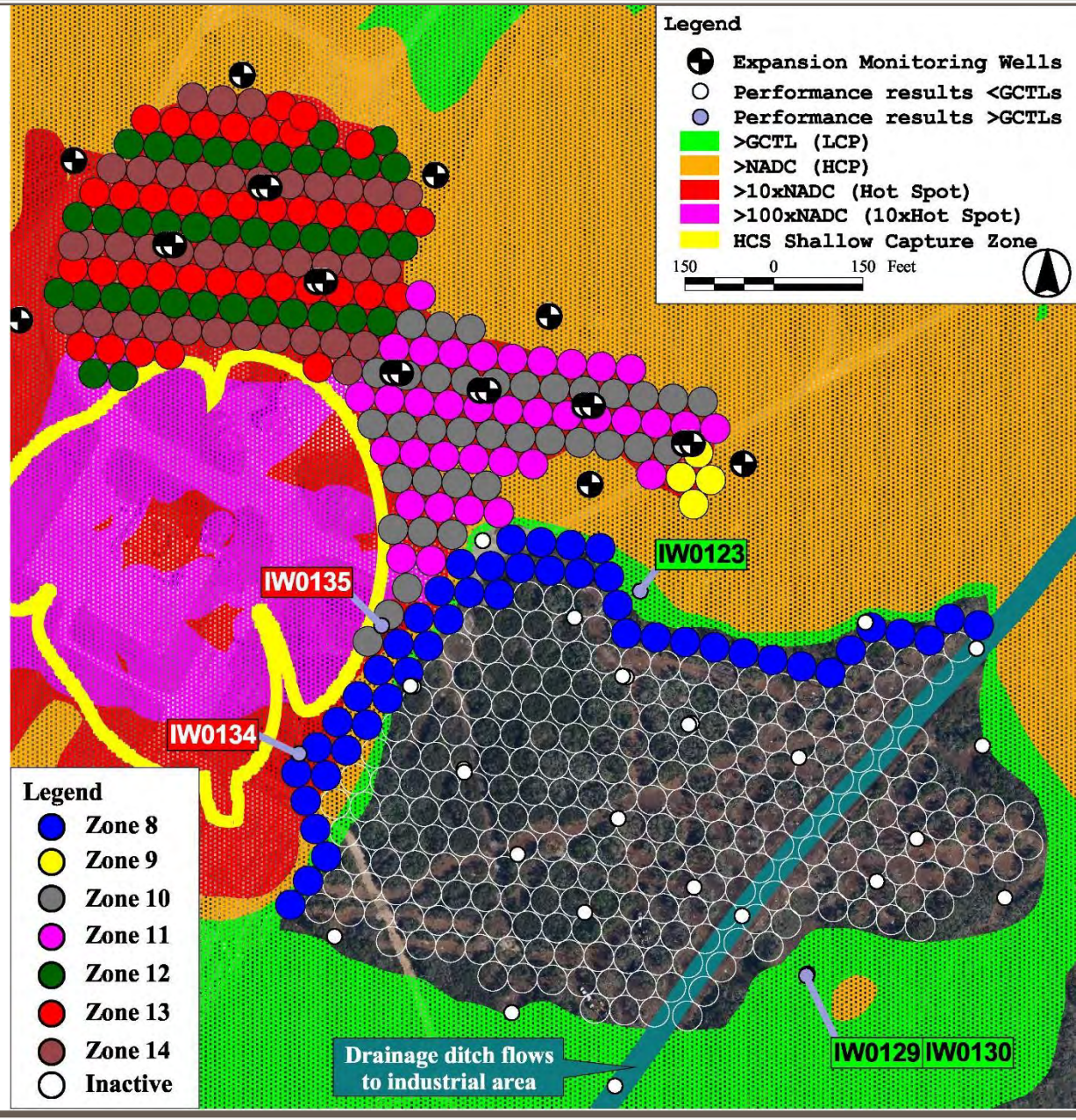
Hot Spot 6 Interim Measure Air Sparge System Phase Two Expansion

HS6 IM Phase Two Expansion

- 27Aug2023 began full scale operations
  - System Design
    - Operating 238 AS Wells (ASWs) in 7 treatment zones
      - Zone 8 includes 48 ASWs to prevent upgradient contamination from impacting treated area
      - Zones 9 to 14 includes 190 ASWs treating an additional 11.2 acres
      - 252 existing ASWs have been shut down where GCTLs have been achieved
    - Installation depth ~40' bls (Top of Layer 4), soil cores were collected to guide installation depth for each ASW
    - 25' ROI, spaced 50' on center (c/c)
    - 5 CFM per ASW
- First quarter sampling event conducted week of November 27th
  - Quarterly sampling of 21 monitoring wells

Team Decisions

- 2310-D31, The Team reached consensus to continue operation of the HS6 air sparging system of the active 238 ASWs for the operational period of April 1, 2023 to March 31, 2024
- 2310-D32, The Team reached consensus for quarterly sampling of 21 monitoring wells associated with expansion for VOCs and field parameters
- 2310-D33, The Team reached consensus to continue semi-annual sampling of 28 monitoring wells and 3 surface water locations associated with previous treatment area for VOCs and field parameters



Hot Spot 6 Phase Two Expansion Performance Sampling

	Date:	Baseline	Nov 2023	Baseline cDCE	Baseline VC	Nov 2023 cDCE	Nov 2023 VC	Reductions cDCE	Reductions VC
Perimeter	IW0176	✓	✓	84	50	150	38	-79%	24%
	IW0177	✓	✓	120	130	280	4	-133%	97%
	IW0178	✓	✓	810	510	730	900	10%	-76%
	IW0185	✓	✓	100	350	100	250	0%	29%
	IW0186	✓	✓	320	330	240	140	25%	58%
	IW0187	✓	✓	940	560	150	780	84%	-39%
	IW0188	✓	✓	27	160	29	440	-7%	-175%
Treatment	IW0168	✓	✓	6,500	3,800	3,900	3,100	40%	18%
	IW0169	✓	✓	67	1,400	110	370	-64%	74%
	IW0170	✓	✓	990	710	740	220	25%	69%
	IW0171	✓	✓	890	1,500	34	39	96%	97%
	IW0172	✓	✓	2,600	1,700	400	110	85%	94%
	IW0173	✓	✓	23	290	2	10	92%	97%
	IW0174	✓	✓	110	240	66	62	40%	74%
	IW0175	✓	✓	7	26	12	13	-64%	50%
	IW0179	✓	✓	140	800	57	75	59%	91%
	IW0180	✓	✓	1,700	710	780	400	54%	44%
	IW0181	✓	✓	130	540	34	100	74%	81%
	IW0182	✓	✓	1,100	540	850	760	23%	-41%
	IW0183	✓	✓	46	720	77	3	-67%	100%
	IW0184	✓	✓	1,600	1,000	1,100	720	31%	28%
	Average overall reduction:							15%	38%

Legend

✓ Less than or equal to GCTLs

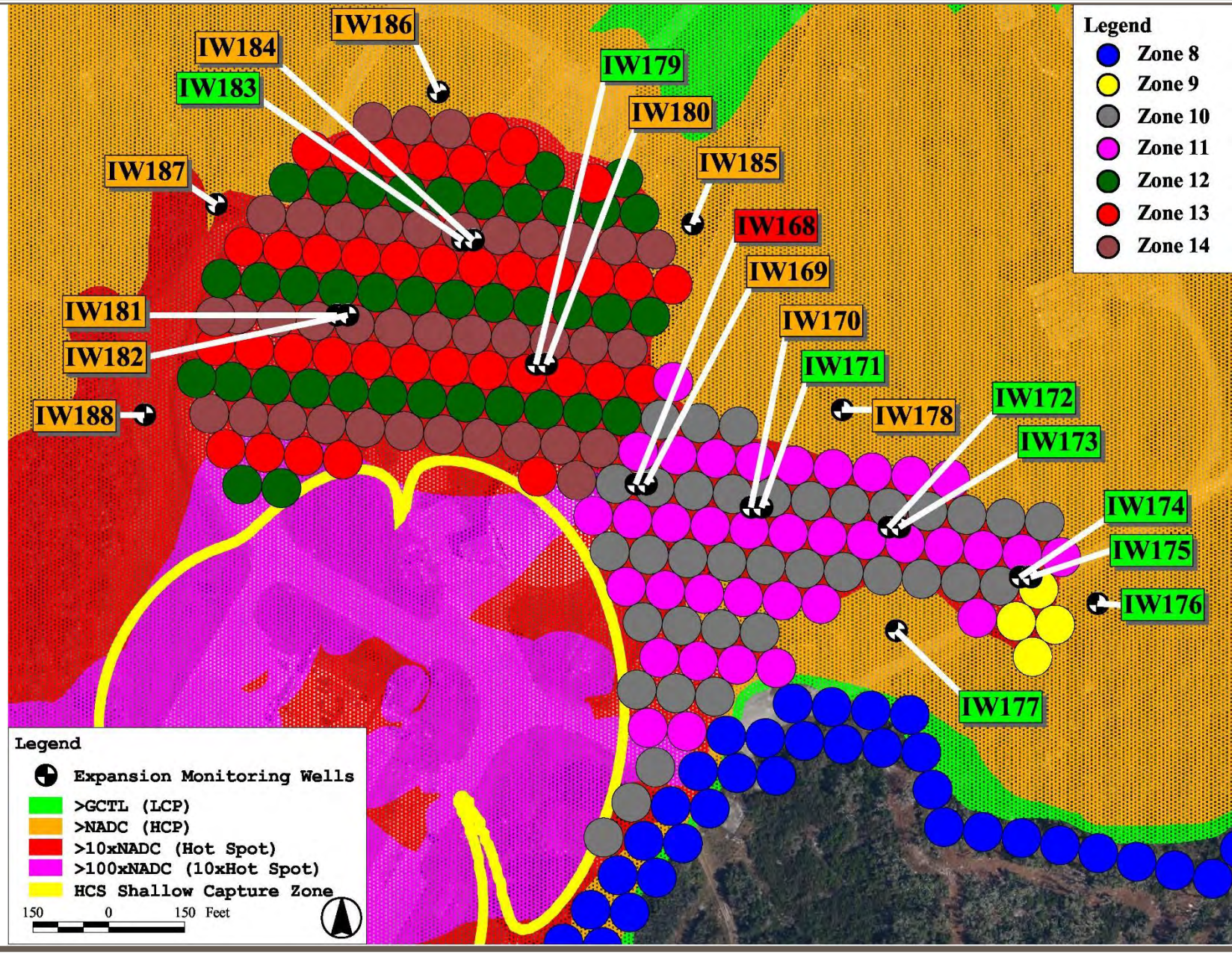
✓ Exceeds GCTLs

✓ Exceeds NADCs

✓ Exceeds 10xNADCs

Notes: 1) Baseline event sampled July 2023

2) Maximum detections highlighted in yellow



Hot Spot 6 Interim Measure Air Sparge System Phase Two Expansion

TETRA TECH

Phase 2
- 1-inch HDPE Supply Line
- 2-inch HDPE Supply Line
- Air Sparging Well (ASW)
- Directional (26 ASWs)

Phase 1
- 1-inch HDPE Supply Line
- ASW

100 0 100 Feet

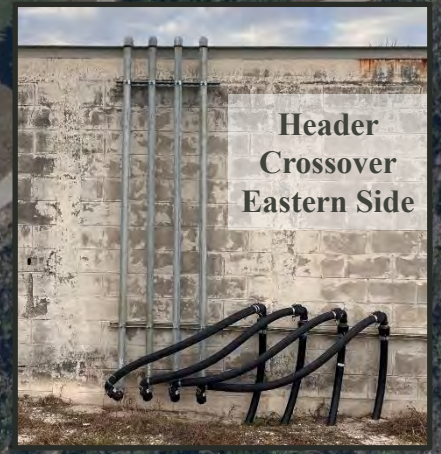
Phase Two Expansion

- Compressed air provided from existing compressor
- All distribution lines were HDPE installed underground except the 2-inch steel lines going over the wall near Blockhouse
- Distribution trailers set on existing concrete pads
- Directional drilling to install 26 ASWs to avoid surface obstructions
- ASW total depth ranged from 32 to 50 ft bls
  - Depths variation due to terrain

Distribution Trailer

Distribution Trailer

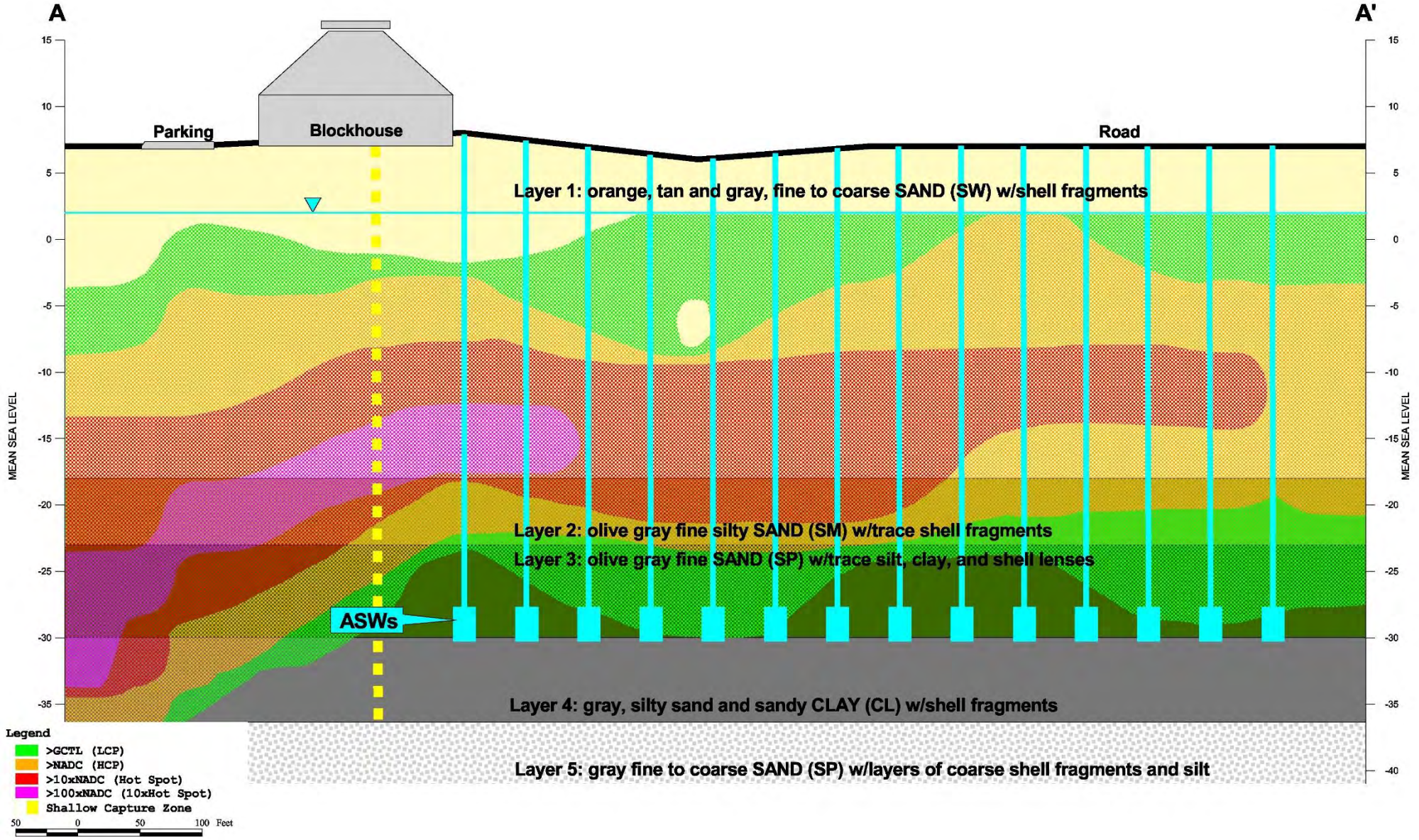


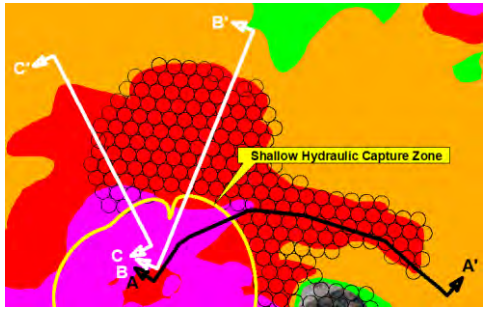




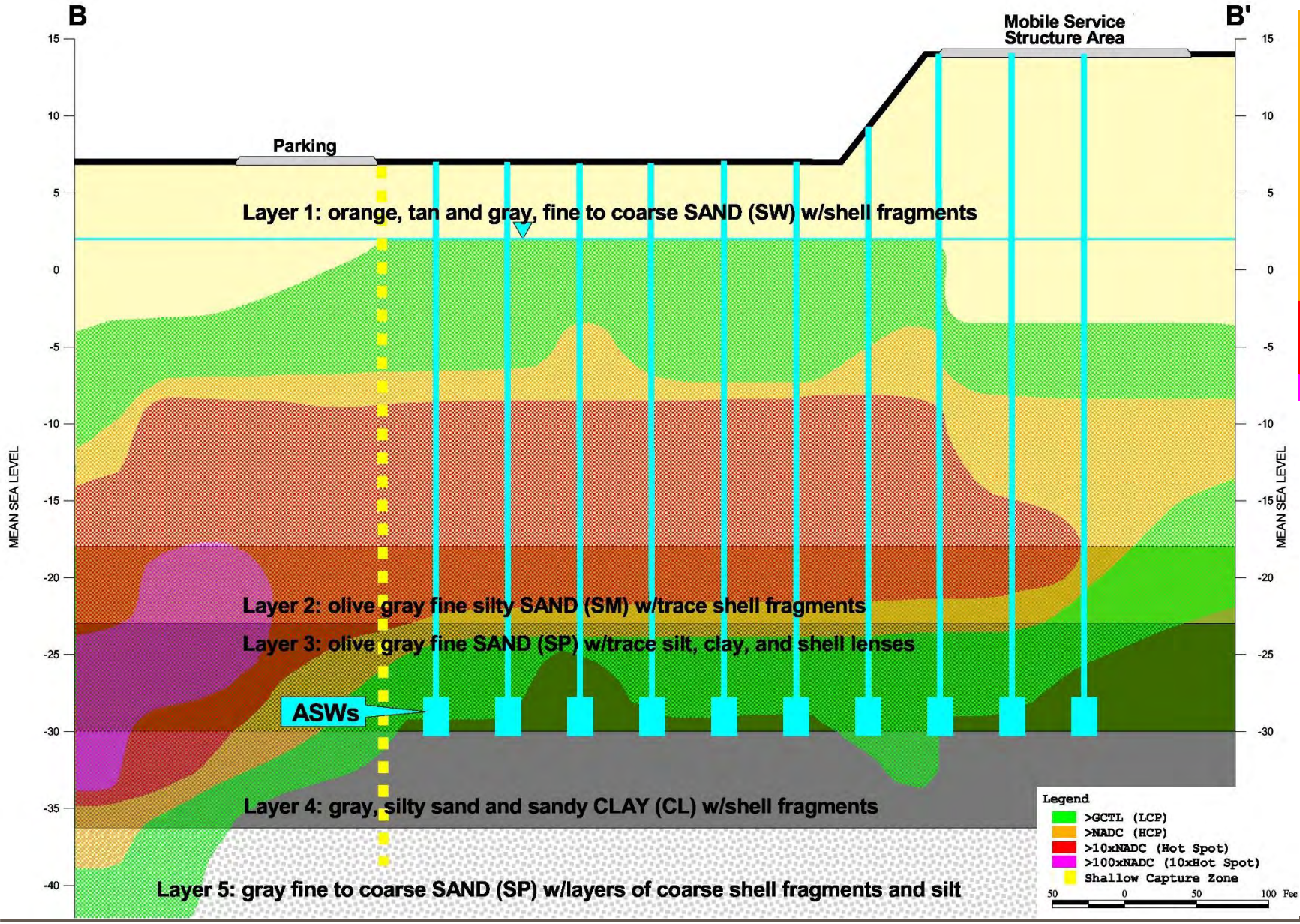


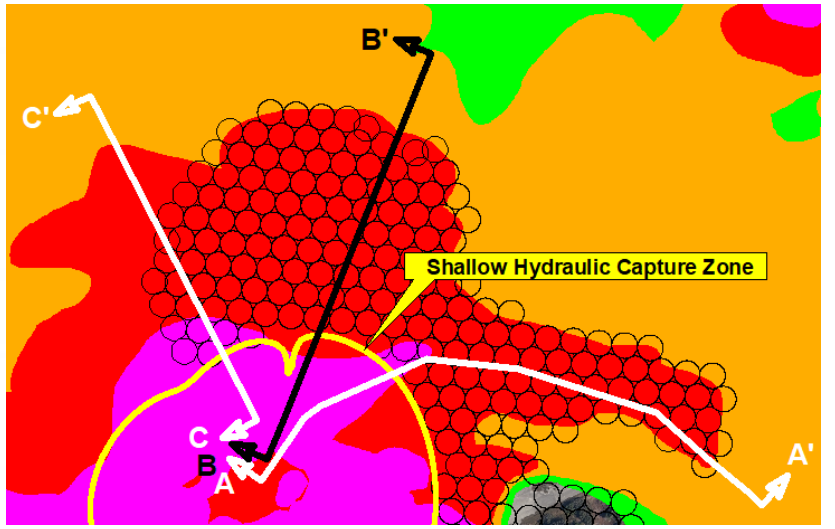
Hot Spot 6 Interim Measure Air Sparge System Overview



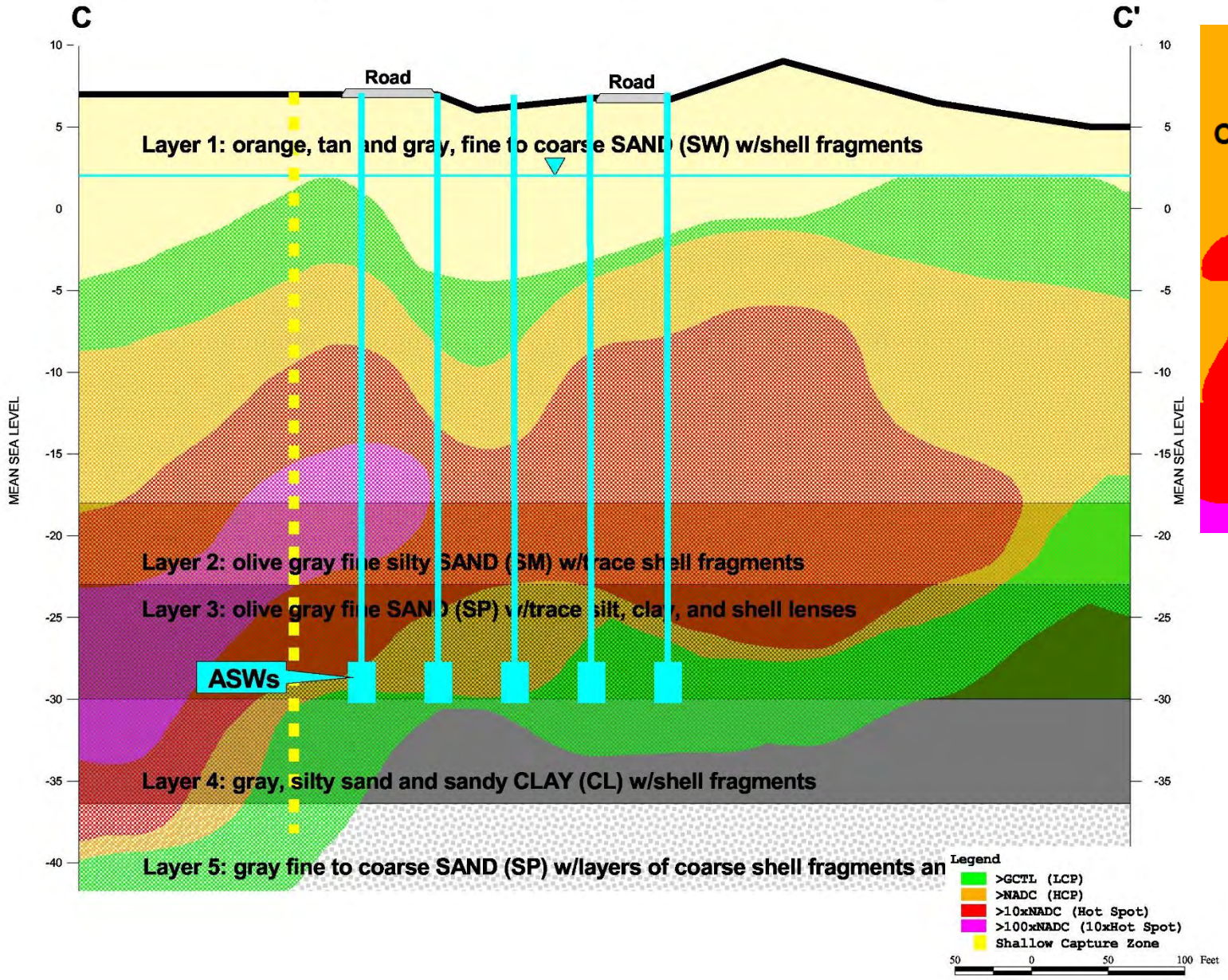


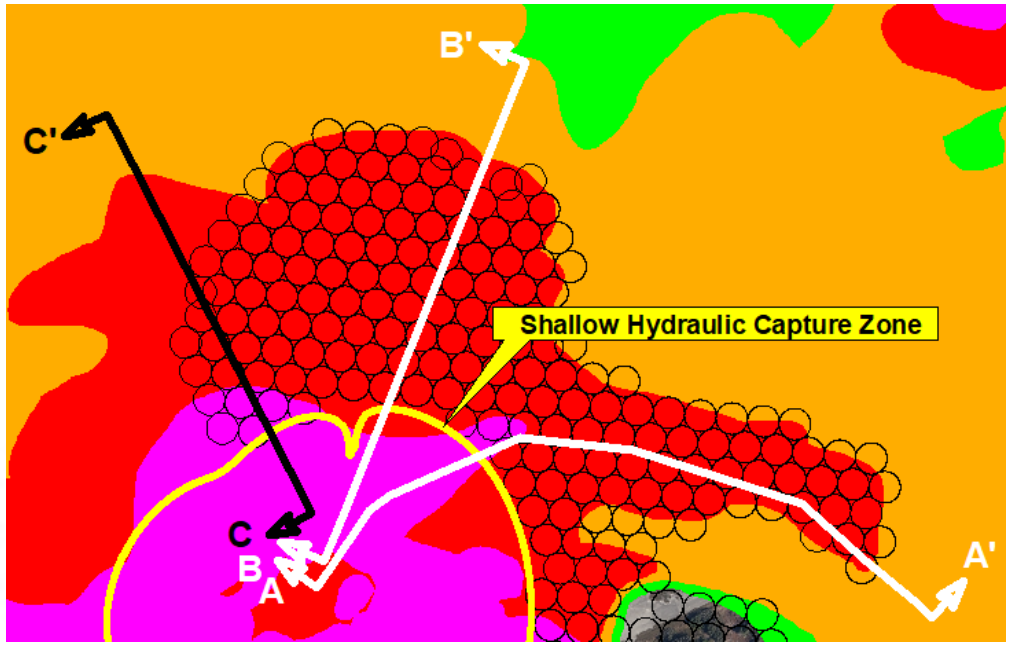
Hot Spot 6 Interim Measure Air Sparge System Overview



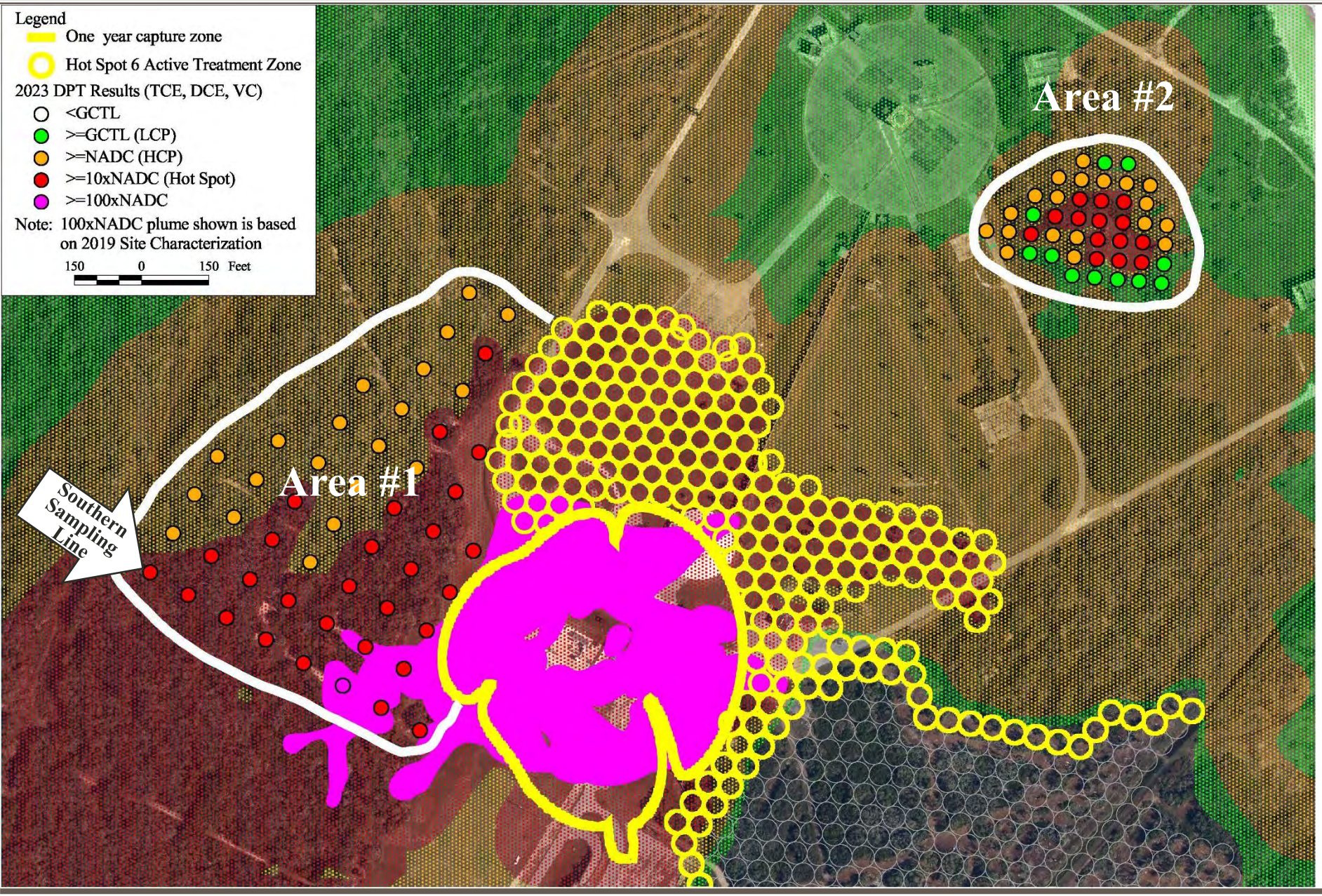


Hot Spot 6 Interim Measure Air Sparge System Overview





2023 DPT Investigation Results



- Investigation objective:
  - Refine delineation of areas previously exceeding 10xNADCs (Hot Spot criterion) to support air sparging implementation
- Investigation areas:
  - Area #1 - Hot Spot west and southwest of active treatment beyond the HCS One year capture zone to the "Southern Sampling Line"
  - Area #2 - Hot Spot southeast of launch pad
- Sampling:
  - Area #1 - 314 samples collected from 49 locations, 100-foot c/c
  - Area #2 - 275 samples collected from 44 locations, 50-foot c/c
- Image displays 2023 DPT results with plume(s) based on historic data

Area #1: 2023 DPT Investigation Results

Interval (ft bls):	0-10	10-15	15-20	20-28	28-34	34-40	>40
TCE							
Samples:	49	49	48	46	46	60	14
Detections:	7	8	5	2	2	4	0
>GCTL:	3	4	2	2	2	3	0
>NADC:	0	0	0	0	1	0	0
>10xNADC:	0	0	0	0	0	0	0
Maximum (ppb):	200	83	5	27	470	50	0
Average (ppb):	35	16	2	20	240	19	0
cDCE							
Samples:	49	49	48	48	48	62	14
Detections:	47	49	48	48	44	51	12
>GCTL:	5	20	37	43	22	20	3
>NADC:	0	1	24	32	9	12	1
>10xNADC:	0	0	3	3	3	4	1
Maximum (ppb):	170	1,300	10,000	42,000	58,000	33,000	14,000
Average (ppb):	21	121	1,403	3,200	2,515	2,149	1,205
tDCE							
Samples:	49	49	48	48	48	62	14
Detections:	6	13	32	40	15	8	0
>GCTL:	0	0	4	7	2	5	0
>NADC:	0	0	0	1	1	0	0
>10xNADC:	0	0	0	0	0	0	0
Maximum (ppb):	4	9	220	1,700	2,100	560	0
Average (ppb):	2	2	46	95	186	195	0
VC							
Samples:	49	49	48	48	48	62	14
Detections:	49	49	48	48	48	62	14
>GCTL:	39	49	47	48	34	33	8
>NADC:	5	25	38	42	19	22	5
>10xNADC:	0	1	14	16	12	18	1
Maximum (ppb):	160	1,200	6,000	12,000	9,600	8,000	8,300
Average (ppb):	33	217	816	1,317	1,263	997	725

Dataset includes 314 samples collected from 49 locations:

- Freon was not detected in any of the 314 samples
- TCE was detected in 16 samples and a sample exceeding GCTL and NADC respectively
- tDCE was detected in 18 samples and 2 samples exceeding GCTL and NADC respectively
- cDCE and VC exceeded GCTL, NADC, and 10xNADC

Contouring and data evaluation:

- Results within one-year HCS capture zone and performance results within Hot Spot 6 treatment zone were used to:
  - Generate TCE, cDCE, and tDCE interval slides, results not contoured
    - All cDCE exceeding 10xNADC coincide with VC exceeding 10xNADC
  - Generate interval slides for VC, results were contoured
- Intervals 0-10', 10'-15', 15'-20', 20'-28', 28'-34', 34'-40', and >40' bls
  - 0-10' included all data from ground surface to and including 10' bls
  - 10'-15' included all data greater than 10' bls to and including 15' bls
  - Deeper intervals followed same logic
- If an interval had multiple results, maximum was used for contouring
- Elevated non-detected values for cDCE > 140, and VC > 20 µg/L not used in contouring, non-detected values less than those values were assumed to be zero
- All sample locations have labels; only locations with symbol used in contouring
- Vertical Profiles provided for vertical evaluation

Area #2: 2023 DPT Investigation Results

Interval (ft bls):	0-10	10-15	15-20	20-28	28-34	34-40	>40
TCE							
Samples:	44	44	44	44	44	50	6
Detections:	0	3	2	1	1	0	0
>GCTL:	0	0	1	1	0	0	0
>NADC:	0	0	0	0	0	0	0
>10xNADC:	0	0	0	0	0	0	0
Maximum (ppb):	0	2	6	3	1	0	0
Average (ppb):	0	1	4	3	1	0	0
cDCE							
Samples:	44	44	44	44	44	50	6
Detections:	43	44	43	39	40	17	0
>GCTL:	3	12	27	9	5	1	0
>NADC:	0	0	4	2	0	0	0
>10xNADC:	0	0	0	0	0	0	0
Maximum (ppb):	390	580	1,200	1,100	250	110	0
Average (ppb):	34	80	215	113	34	17	0
tDCE							
Samples:	44	44	44	44	44	50	6
Detections:	6	9	26	27	14	3	0
>GCTL:	0	0	1	4	0	0	0
>NADC:	0	0	0	0	0	0	0
>10xNADC:	0	0	0	0	0	0	0
Maximum (ppb):	1	7	120	440	60	13	0
Average (ppb):	1	2	11	47	20	5	0
VC							
Samples:	44	44	44	44	44	50	6
Detections:	44	44	44	44	44	50	6
>GCTL:	42	44	44	44	38	12	0
>NADC:	2	13	25	21	15	0	0
>10xNADC:	1	0	5	12	3	0	0
Maximum (ppb):	1,200	670	3,800	9,500	3,500	68	0
Average (ppb):	63	119	383	1,169	298	5	0

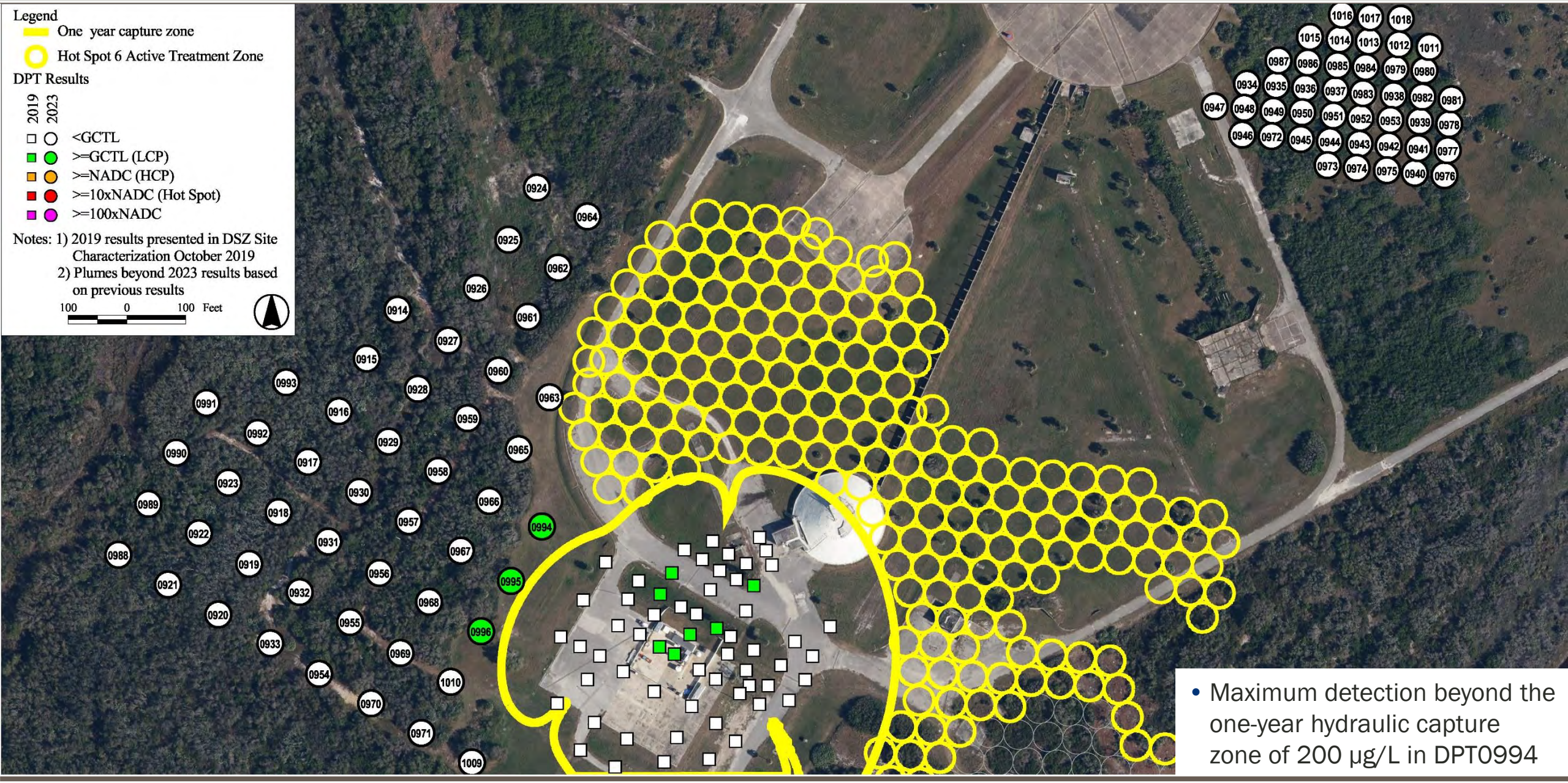
Dataset includes 275 samples collected from 44 locations:

- Freon was not detected in any of the 275 samples
- TCE was detected in 2 samples exceeding GCTL
- cDCE was detected in 57 samples and 6 samples exceeding GCTL and NADC respectively
- tDCE was detected in 5 samples exceeding GCTL
- VC exceeded GCTL, NADC, and 10xNADC

Contouring and data evaluation:

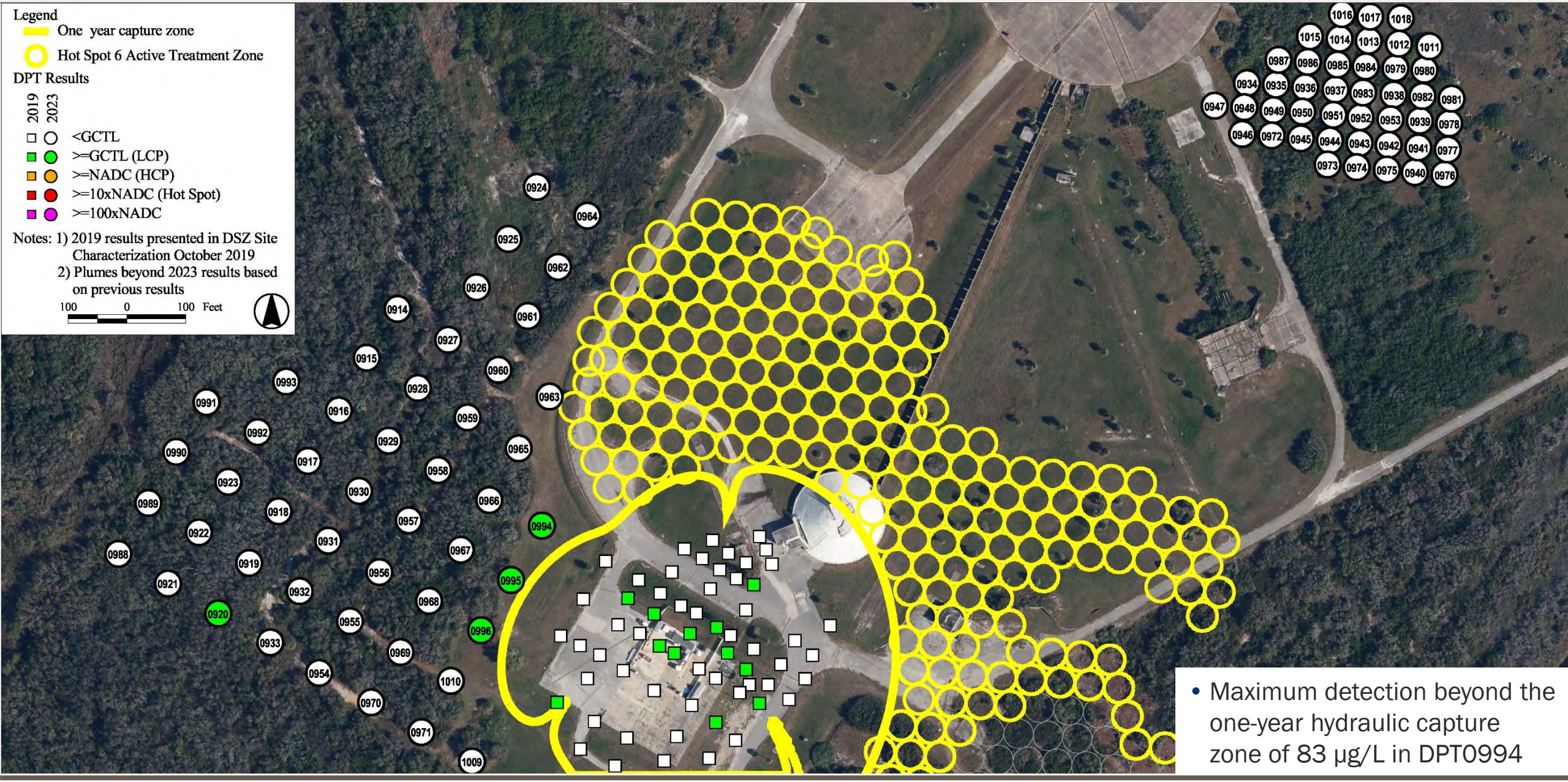
- Results within one-year HCS capture zone and performance results within Hot Spot 6 treatment zone were used to:
  - Generate TCE, cDCE, and tDCE interval slides, results not contoured
  - Generate interval slides for VC, results were contoured
- Intervals 0-10', 10'-15', 15'-20', 20'-28', 28'-34', 34'-40', and >40' bls
  - 0-10' included all data from ground surface to and including 10' bls
  - 10'-15' included all data greater than 10' bls to and including 15' bls
  - Deeper intervals followed same logic
- If an interval had multiple results, maximum was used for contouring
- Elevated non-detected values for cDCE > 140, and VC > 20 µg/L not used in contouring, non-detected values less than those values were assumed to be zero
- All sample locations have labels; only locations with symbol used in contouring
- Vertical Profiles provided for vertical evaluation

TCE, Interval: 0 to 10 feet bls (Layer 1)



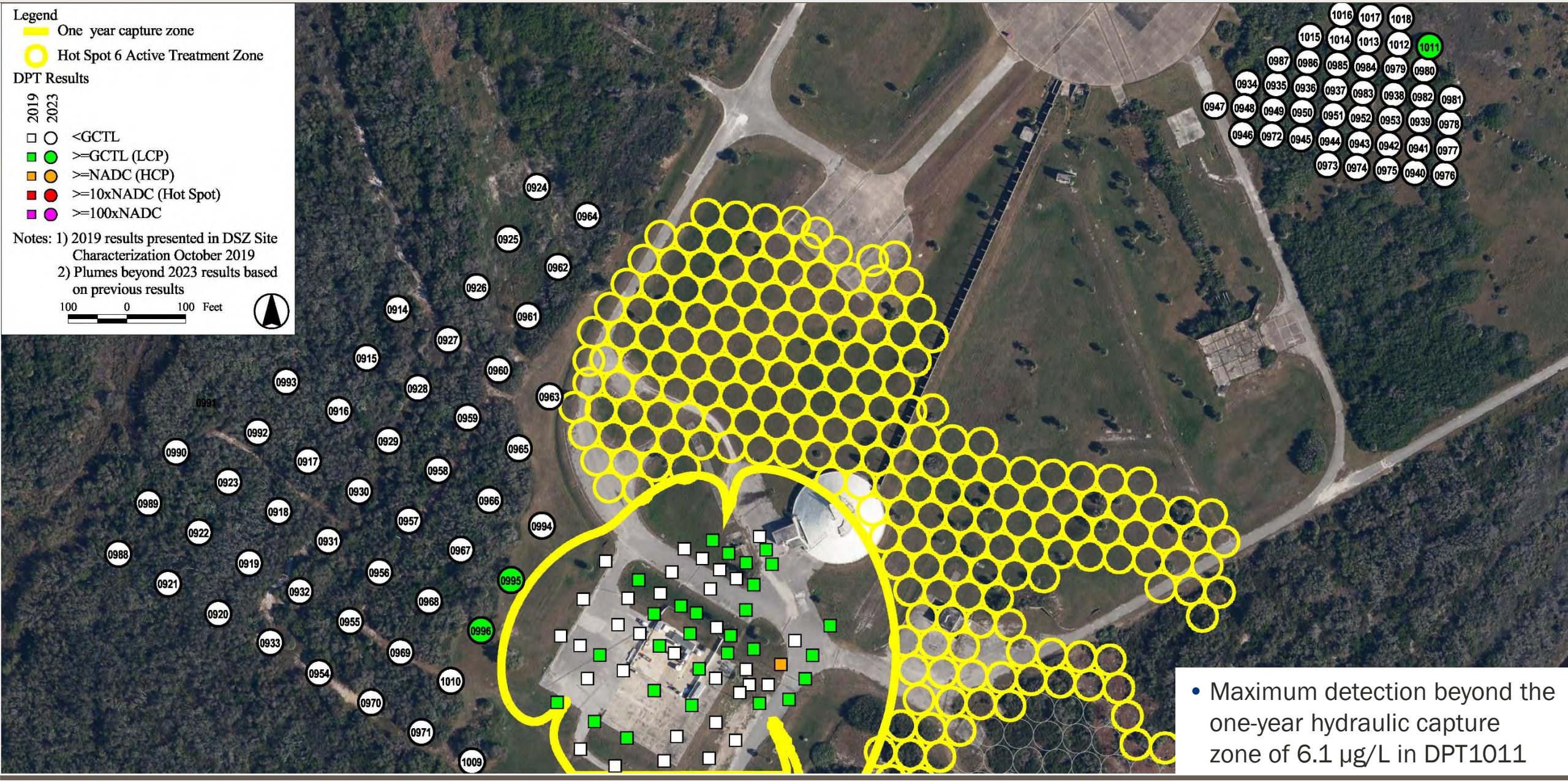
- Maximum detection beyond the one-year hydraulic capture zone of 200 µg/L in DPT0994

TCE, Interval: 10 to 15 feet bls (Layer 1)



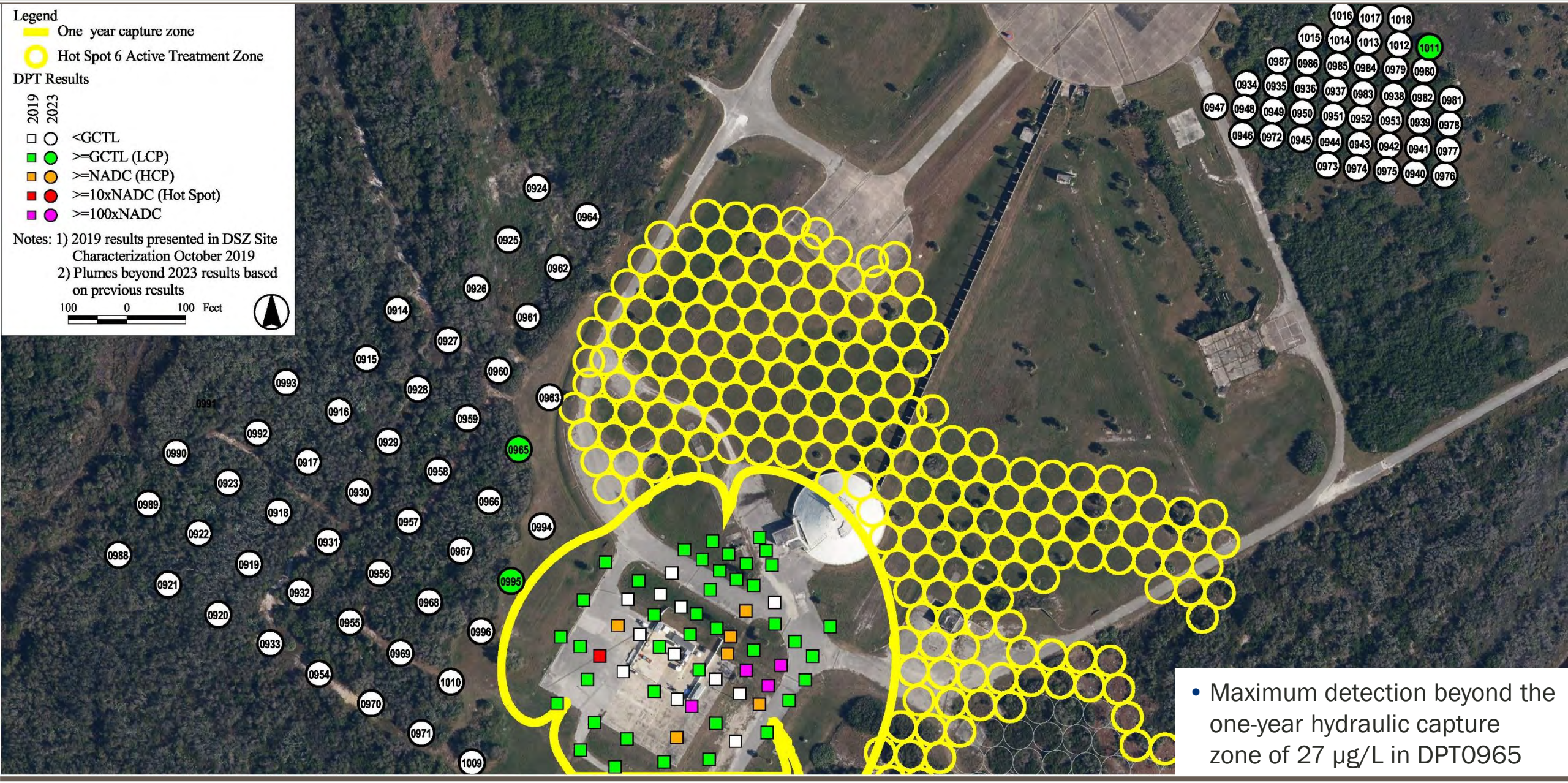
- Maximum detection beyond the one-year hydraulic capture zone of 83 µg/L in DPT0994

TCE, Interval: 15 to 20 feet bls (Layer 1)



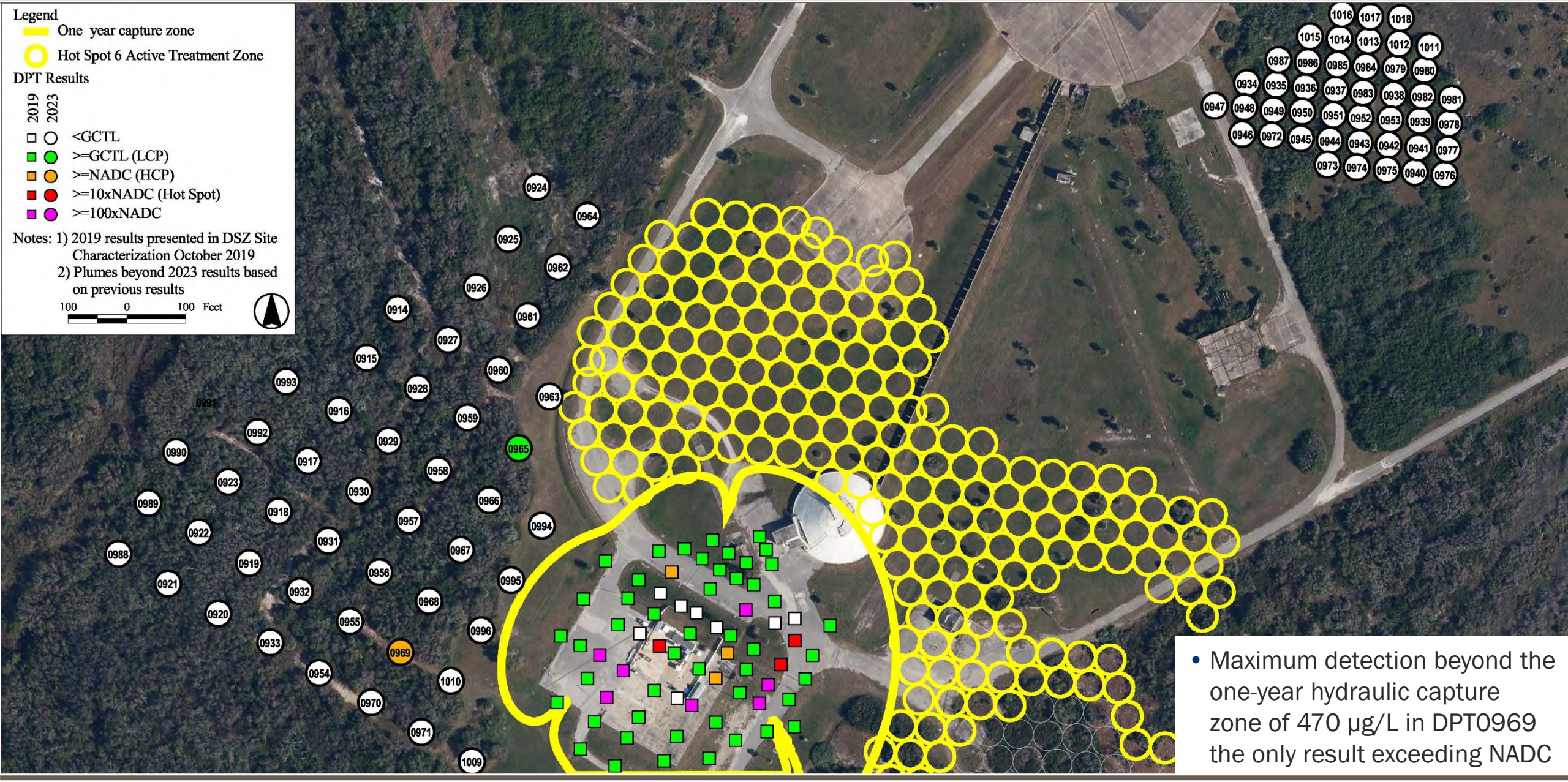
- Maximum detection beyond the one-year hydraulic capture zone of 6.1 µg/L in DPT1011

TCE, Interval: 20 to 28 feet bls (Layer 1/2)



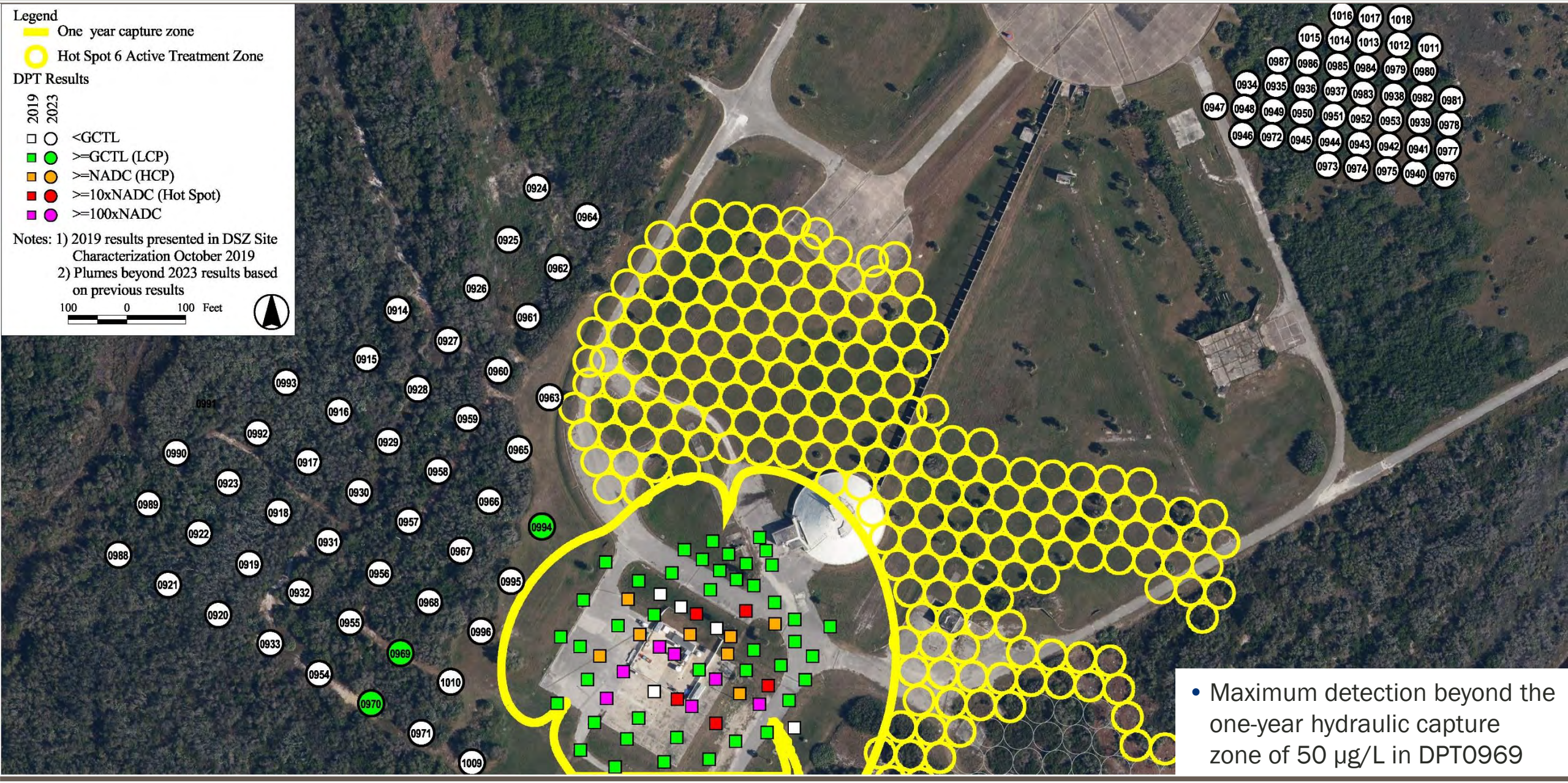
- Maximum detection beyond the one-year hydraulic capture zone of 27 µg/L in DPT0965

TCE, Interval: 28 to 34 feet bls (Layer 3)



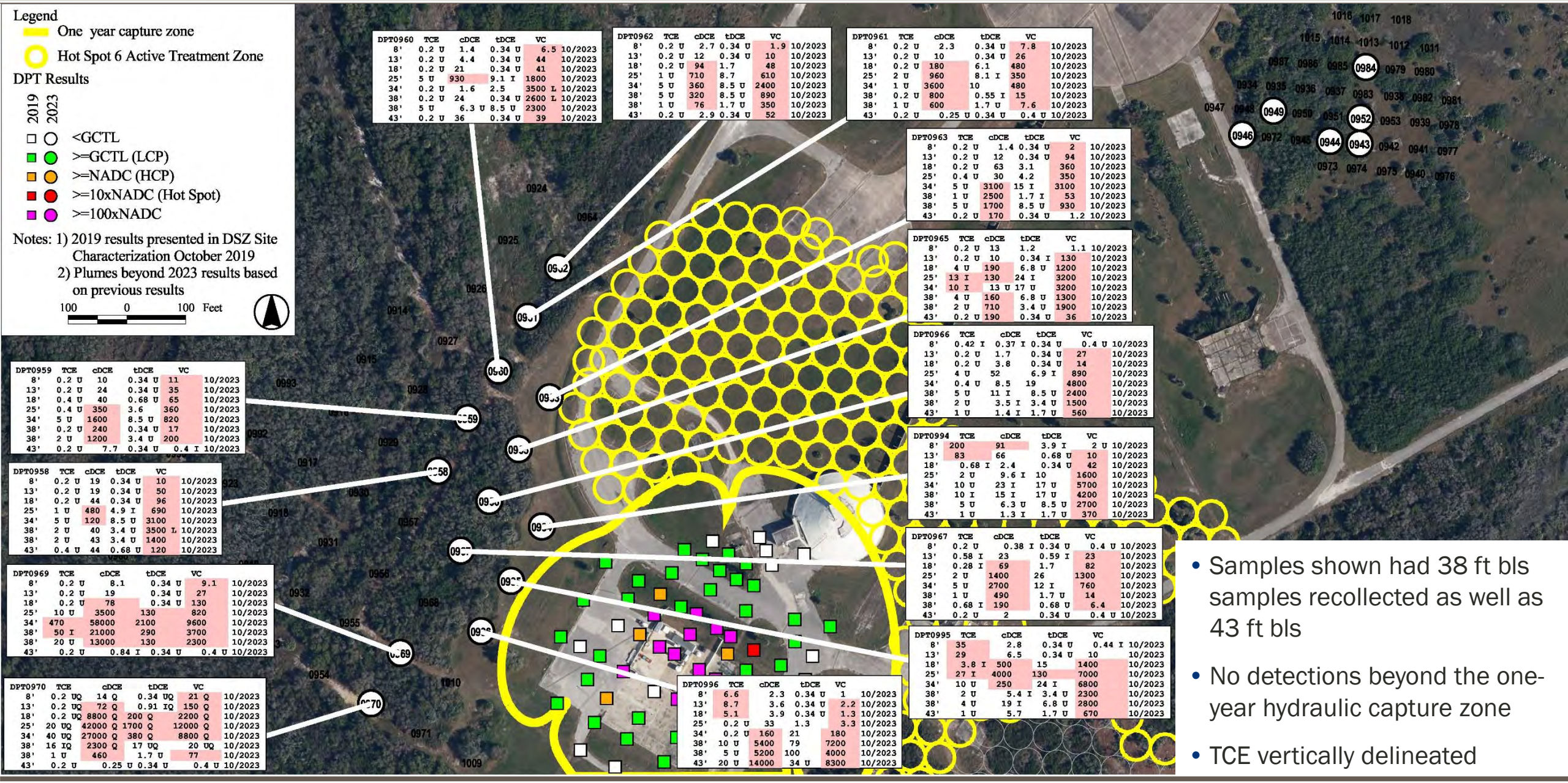
- Maximum detection beyond the one-year hydraulic capture zone of 470 µg/L in DPT0969 the only result exceeding NADC

TCE, Interval: 34 to 40 feet bls (Layer 3)



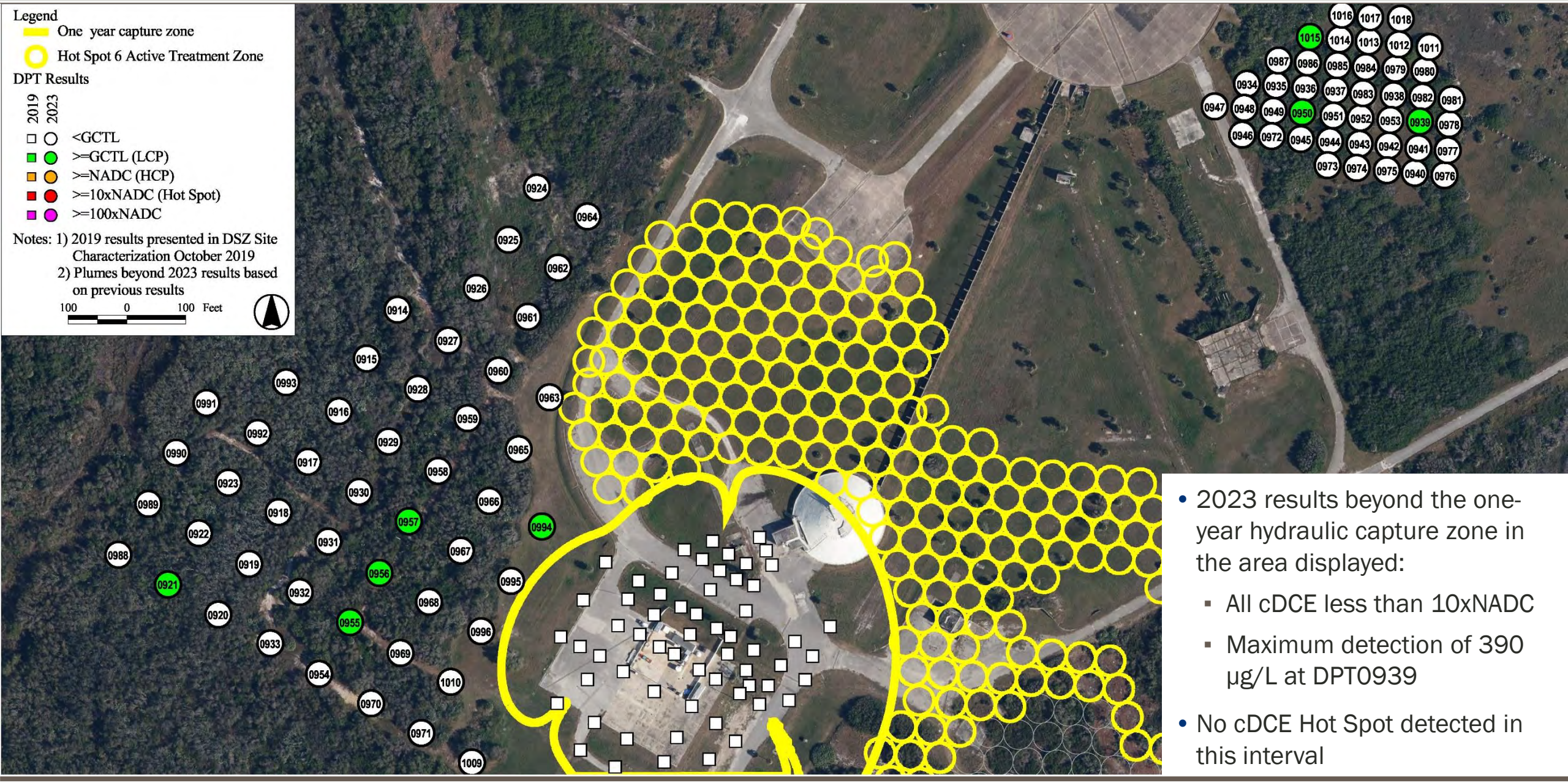
- Maximum detection beyond the one-year hydraulic capture zone of 50 µg/L in DPT0969

TCE, Interval: >40 feet bls (Layer 3/4)



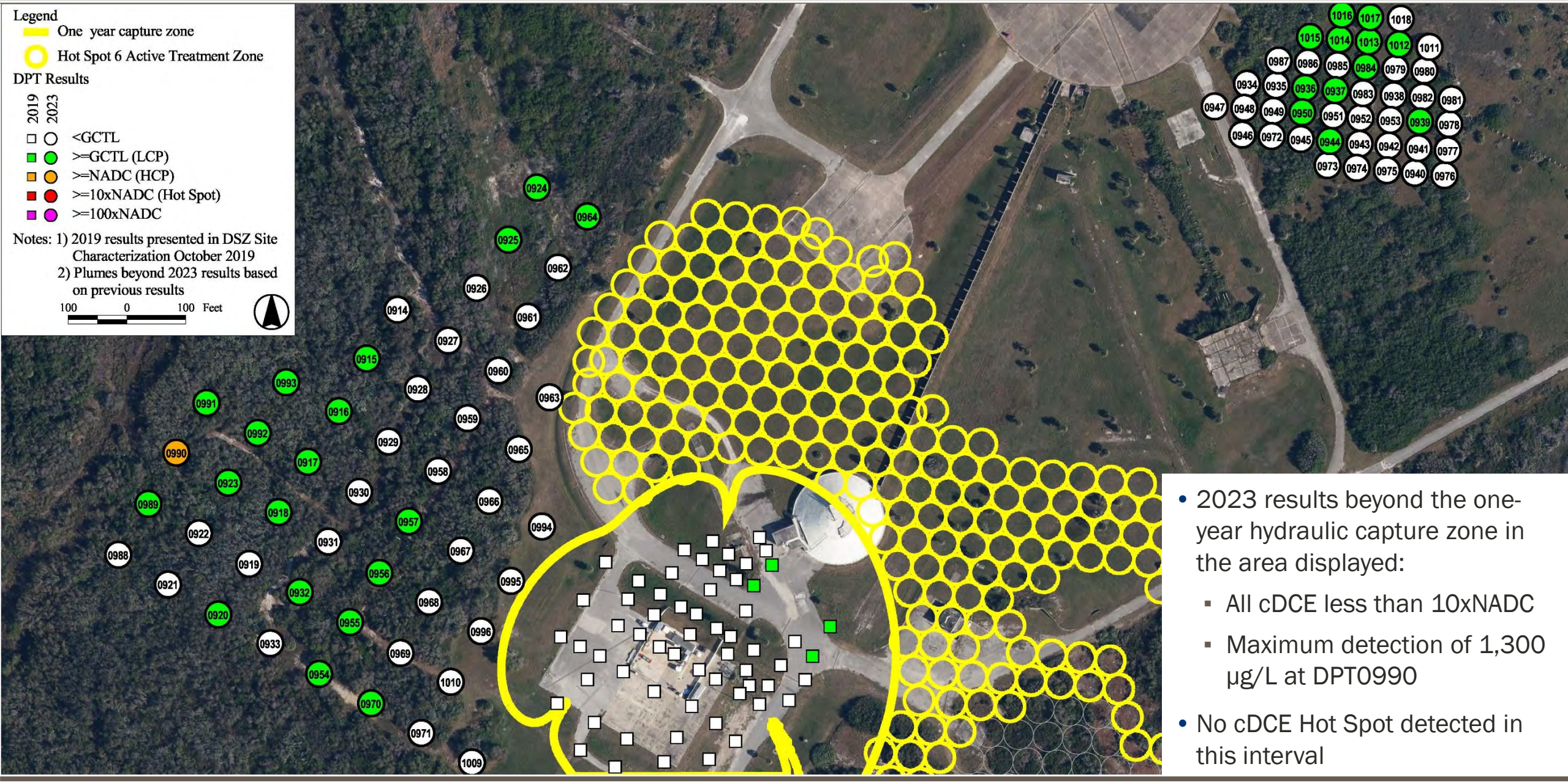
- Samples shown had 38 ft bls samples recollected as well as 43 ft bls
- No detections beyond the one-year hydraulic capture zone
- TCE vertically delineated

cDCE, Interval: 0 to 10 feet bls (Layer 1)



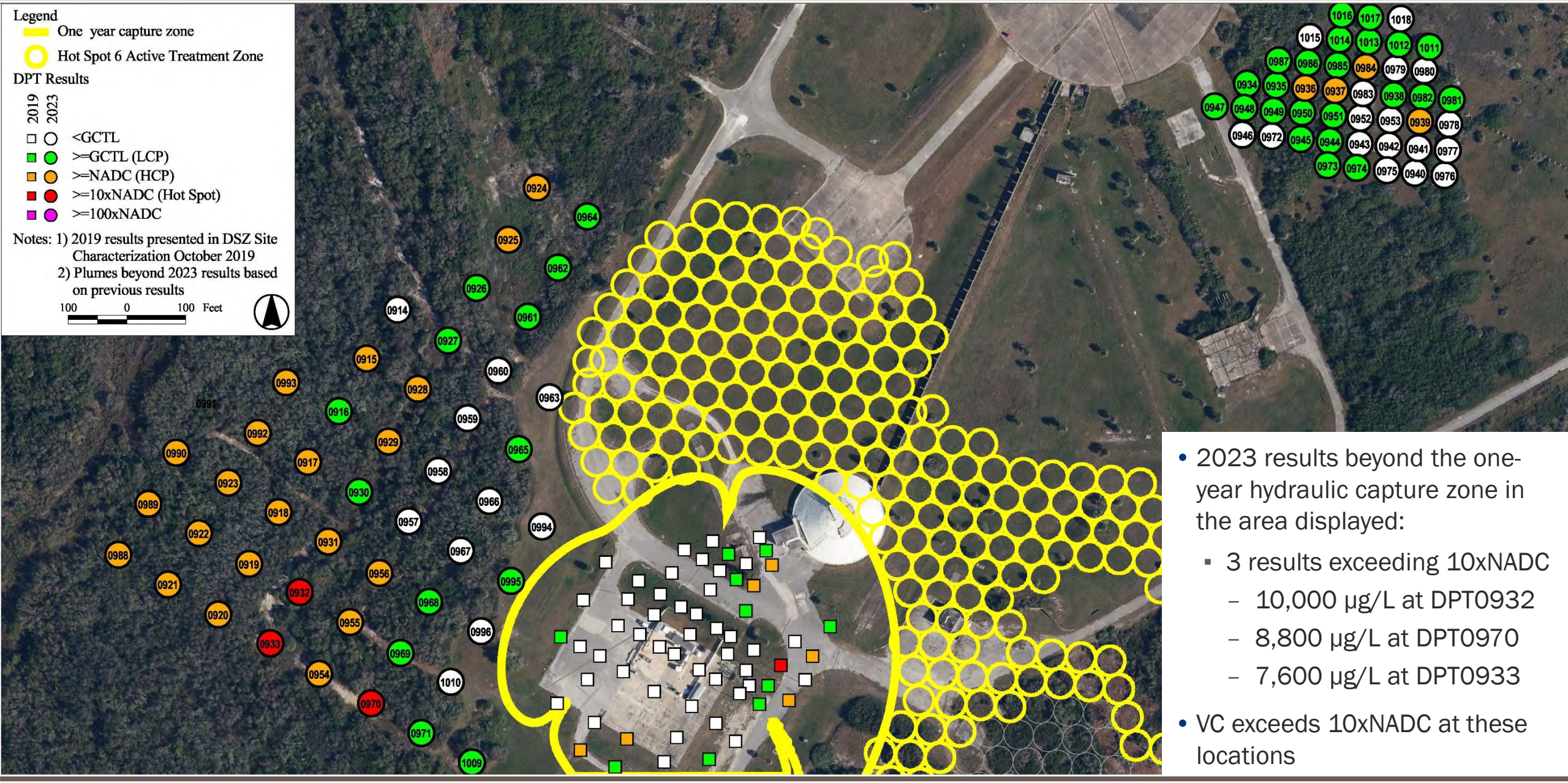
- 2023 results beyond the one-year hydraulic capture zone in the area displayed:
  - All cDCE less than 10xNADC
  - Maximum detection of 390 µg/L at DPT0939
- No cDCE Hot Spot detected in this interval

cDCE, Interval: 10 to 15 feet bls (Layer 1)



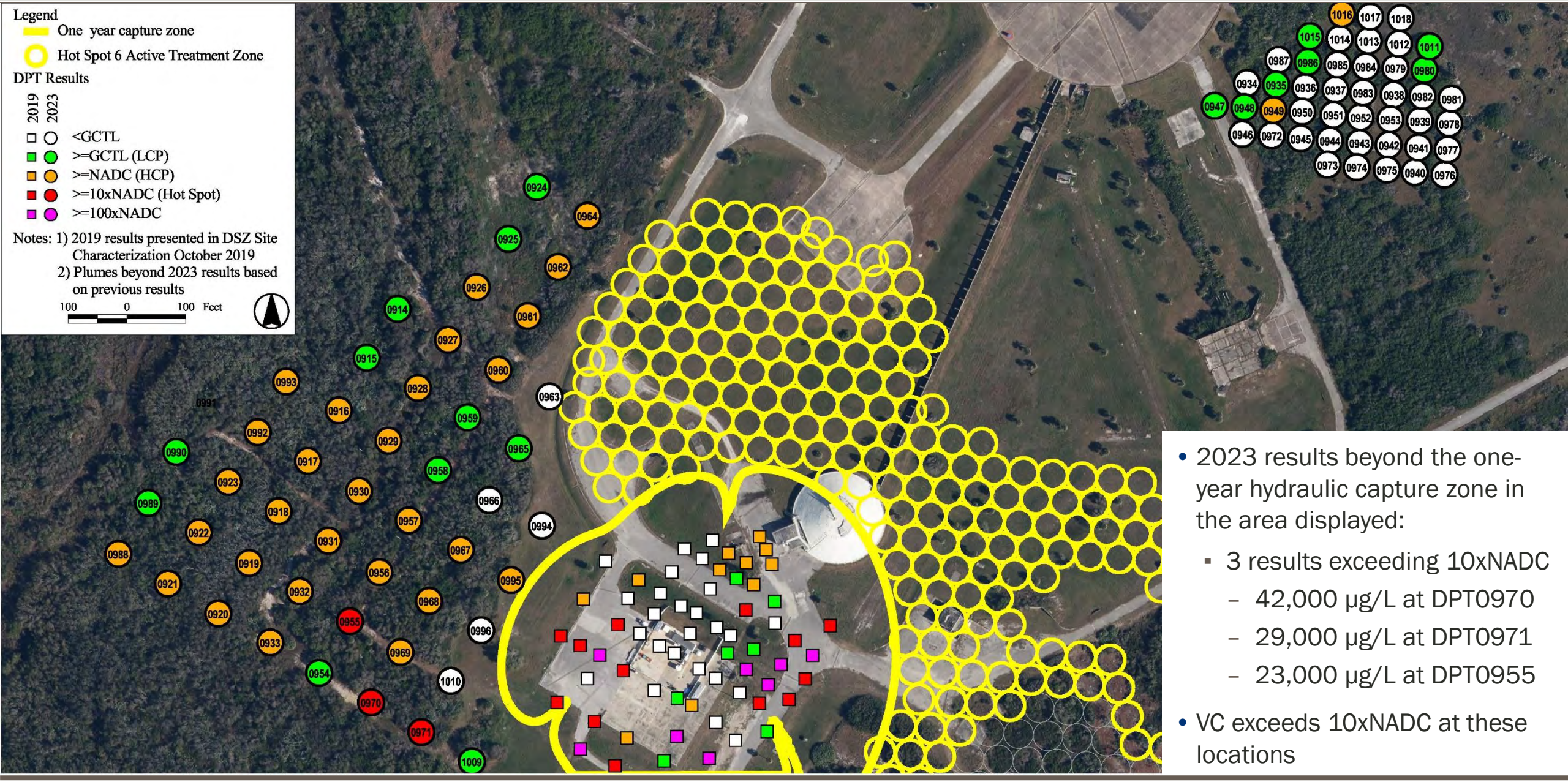
- 2023 results beyond the one-year hydraulic capture zone in the area displayed:
  - All cDCE less than 10xNADC
  - Maximum detection of 1,300 µg/L at DPT0990
- No cDCE Hot Spot detected in this interval

cDCE, Interval: 15 to 20 feet bls (Layer 1)



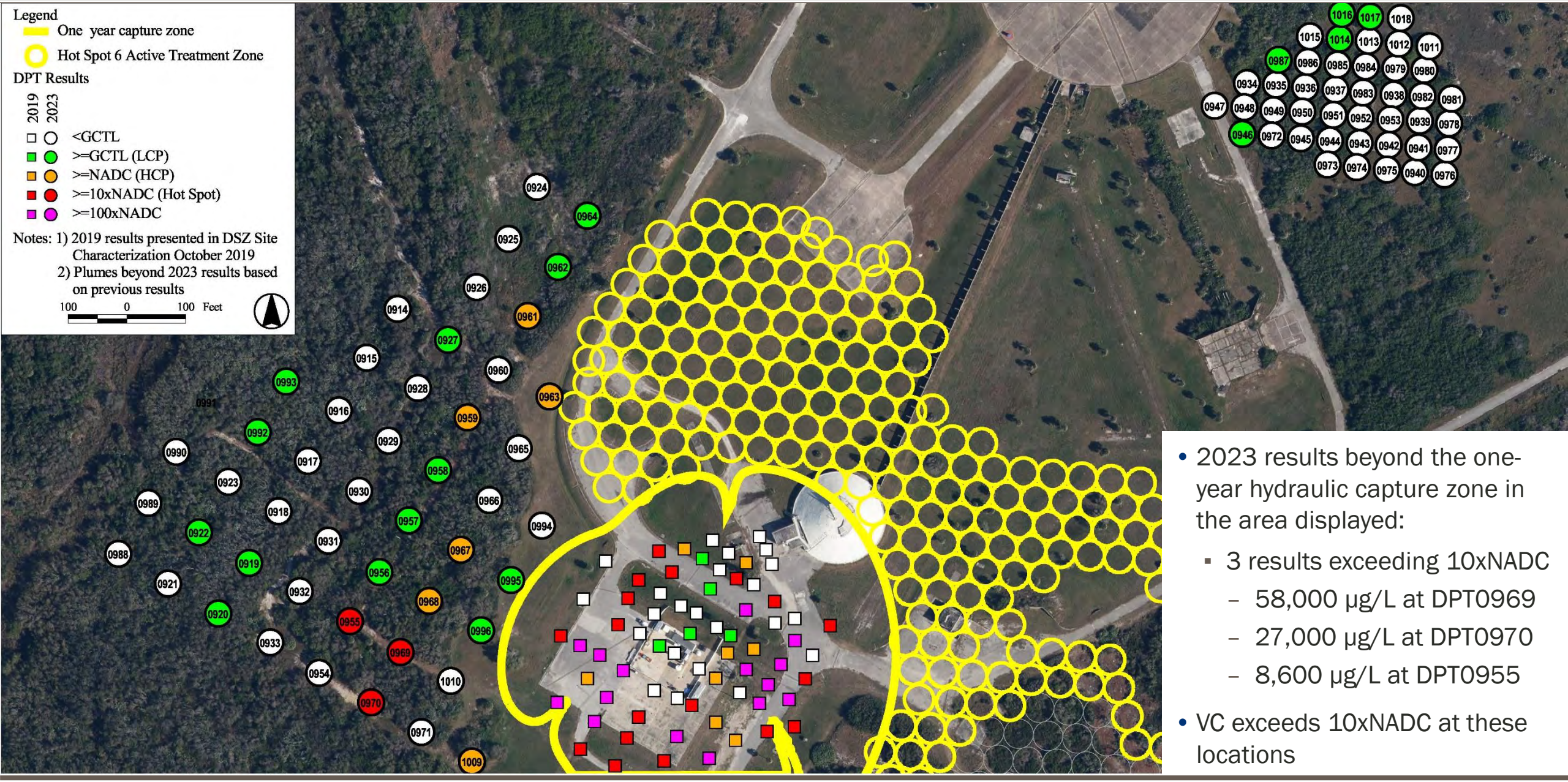
- 2023 results beyond the one-year hydraulic capture zone in the area displayed:
  - 3 results exceeding 10xNADC
    - 10,000 µg/L at DPT0932
    - 8,800 µg/L at DPT0970
    - 7,600 µg/L at DPT0933
- VC exceeds 10xNADC at these locations

cDCE, Interval: 20 to 28 feet bls (Layer 1/2)



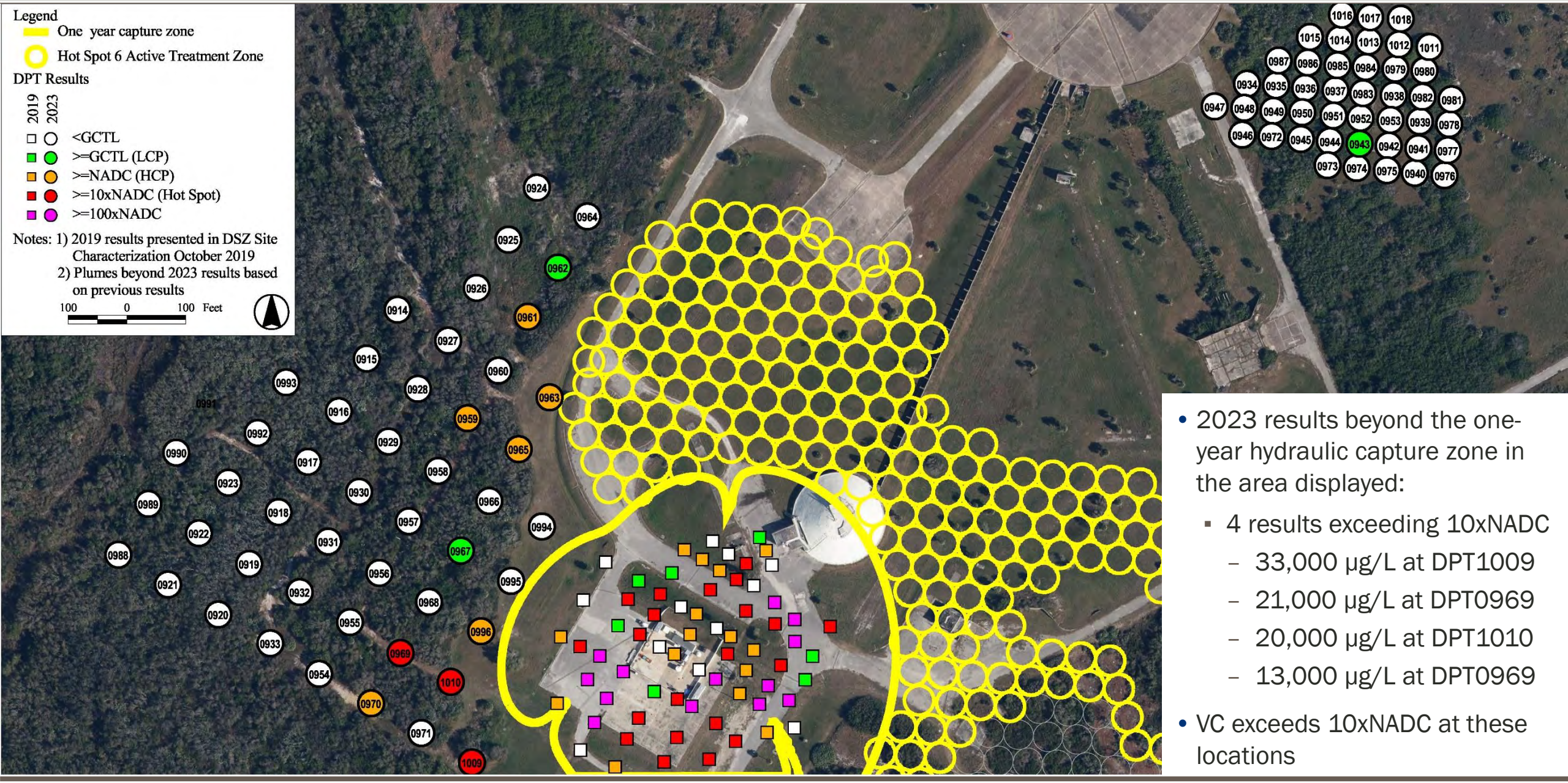
- 2023 results beyond the one-year hydraulic capture zone in the area displayed:
  - 3 results exceeding 10xNADC
    - 42,000 µg/L at DPT0970
    - 29,000 µg/L at DPT0971
    - 23,000 µg/L at DPT0955
- VC exceeds 10xNADC at these locations

cDCE, Interval: 28 to 34 feet bls (Layer 3)



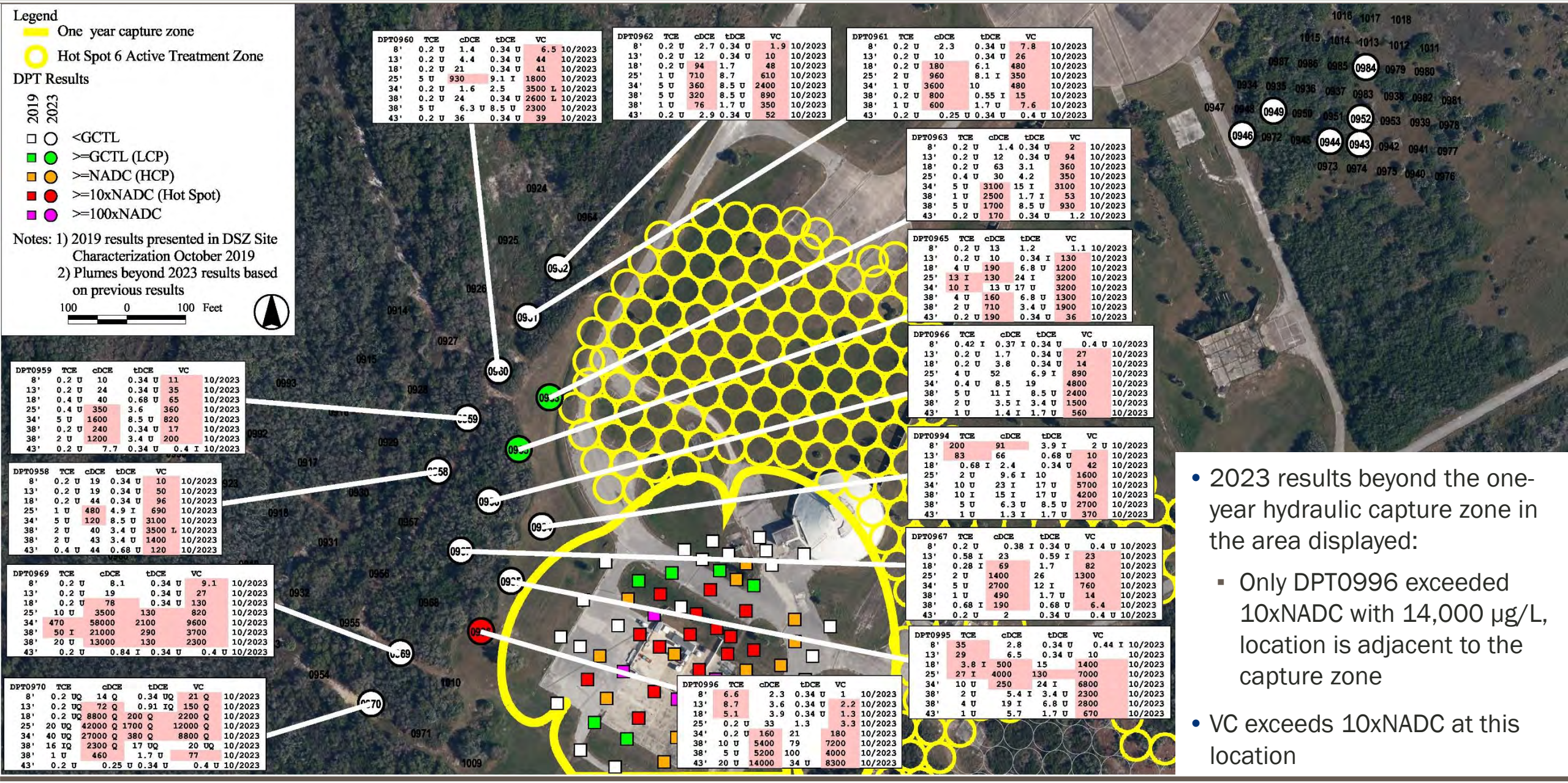
- 2023 results beyond the one-year hydraulic capture zone in the area displayed:
  - 3 results exceeding 10xNADC
    - 58,000 µg/L at DPT0969
    - 27,000 µg/L at DPT0970
    - 8,600 µg/L at DPT0955
- VC exceeds 10xNADC at these locations

cDCE, Interval: 34 to 40 feet bls (Layer 3)



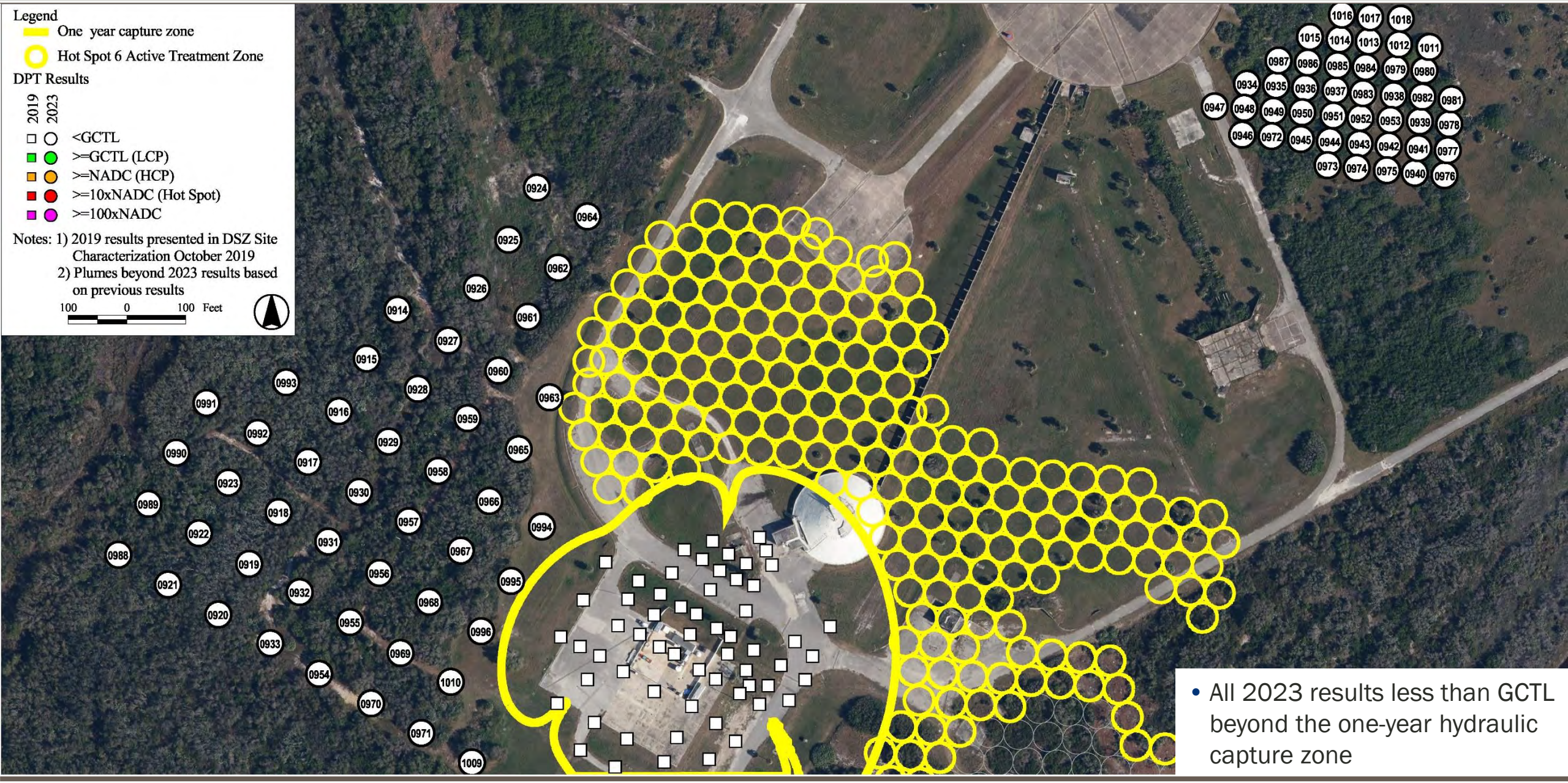
- 2023 results beyond the one-year hydraulic capture zone in the area displayed:
  - 4 results exceeding 10xNADC
    - 33,000 µg/L at DPT1009
    - 21,000 µg/L at DPT0969
    - 20,000 µg/L at DPT1010
    - 13,000 µg/L at DPT0969
- VC exceeds 10xNADC at these locations

cDCE, Interval: >40 feet bls (Layer 3/4)



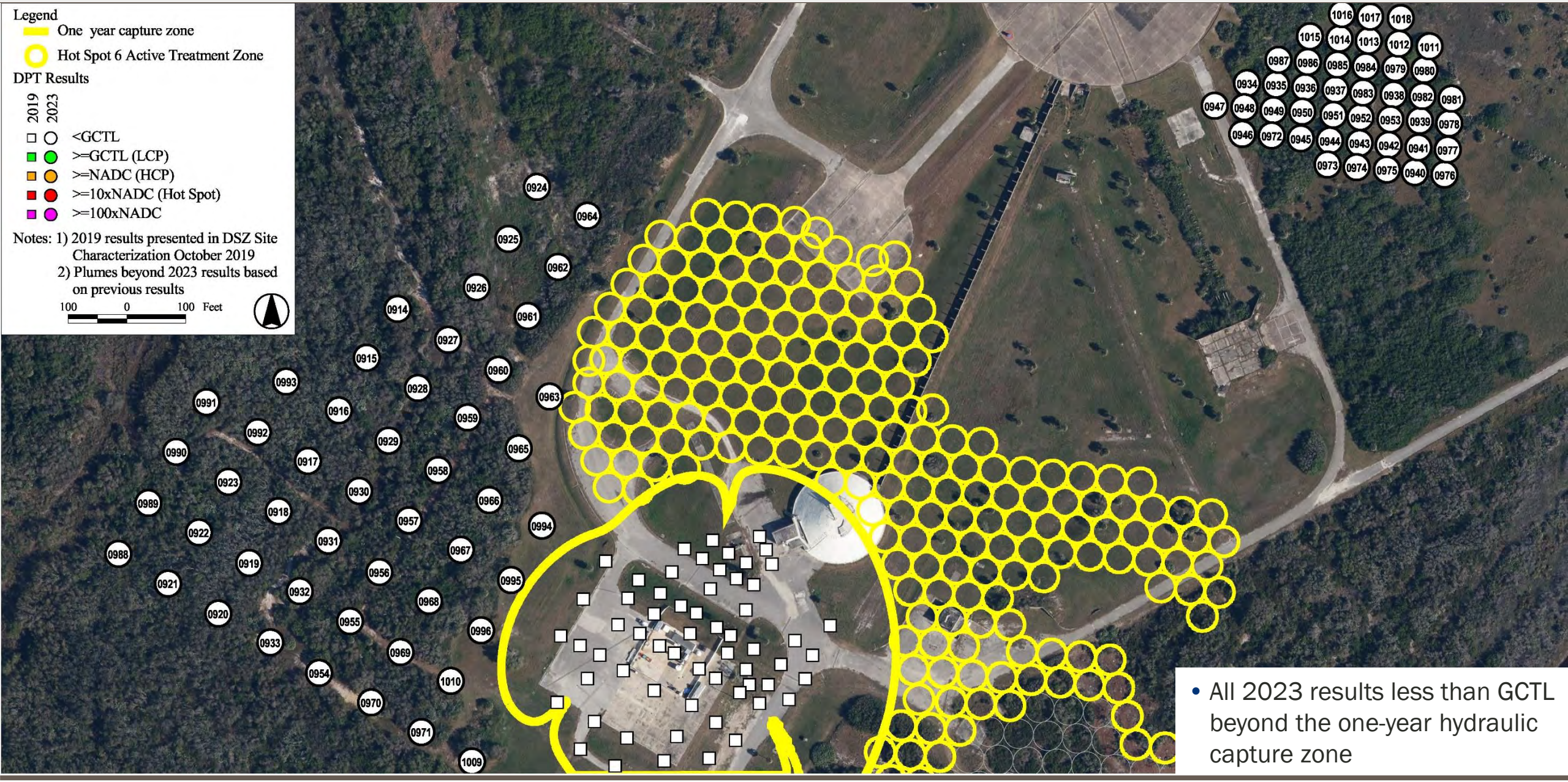
- 2023 results beyond the one-year hydraulic capture zone in the area displayed:
  - Only DPT0996 exceeded 10xNADC with 14,000 µg/L, location is adjacent to the capture zone
- VC exceeds 10xNADC at this location

tDCE, Interval: 0 to 10 feet bls (Layer 1)



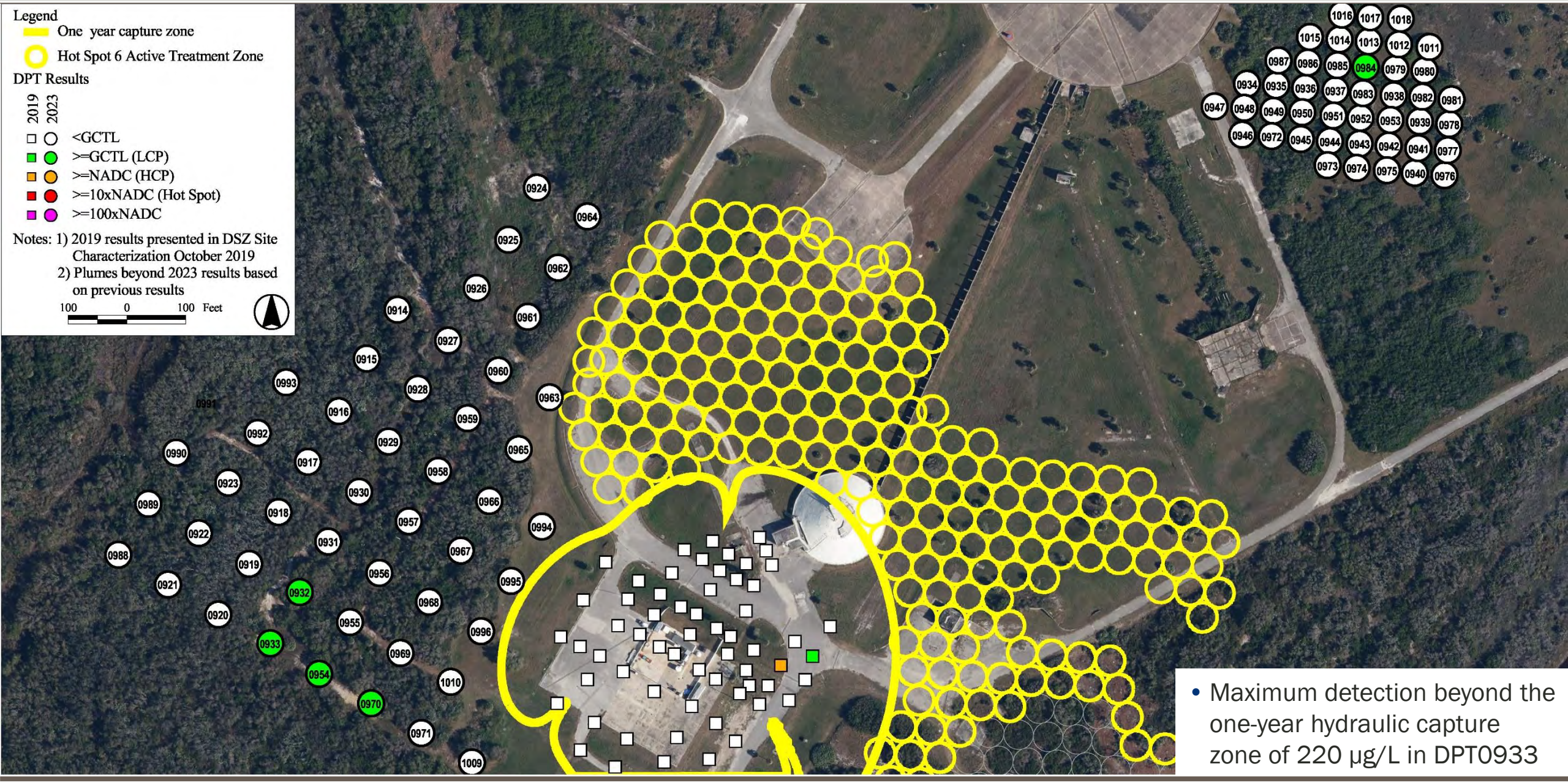
- All 2023 results less than GCTL beyond the one-year hydraulic capture zone

tDCE, Interval: 10 to 15 feet bls (Layer 1)



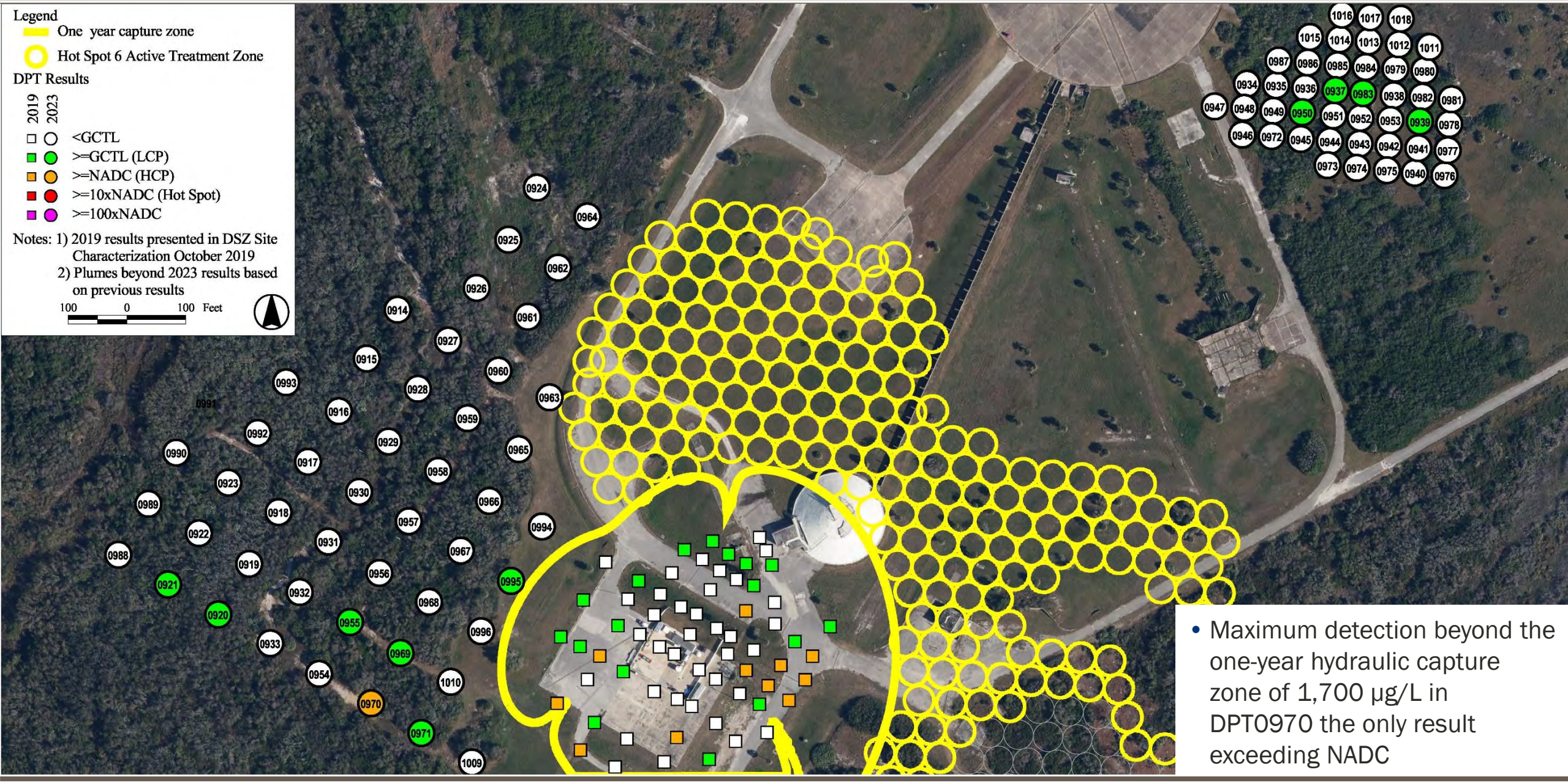
- All 2023 results less than GCTL beyond the one-year hydraulic capture zone

tDCE, Interval: 15 to 20 feet bls (Layer 1)



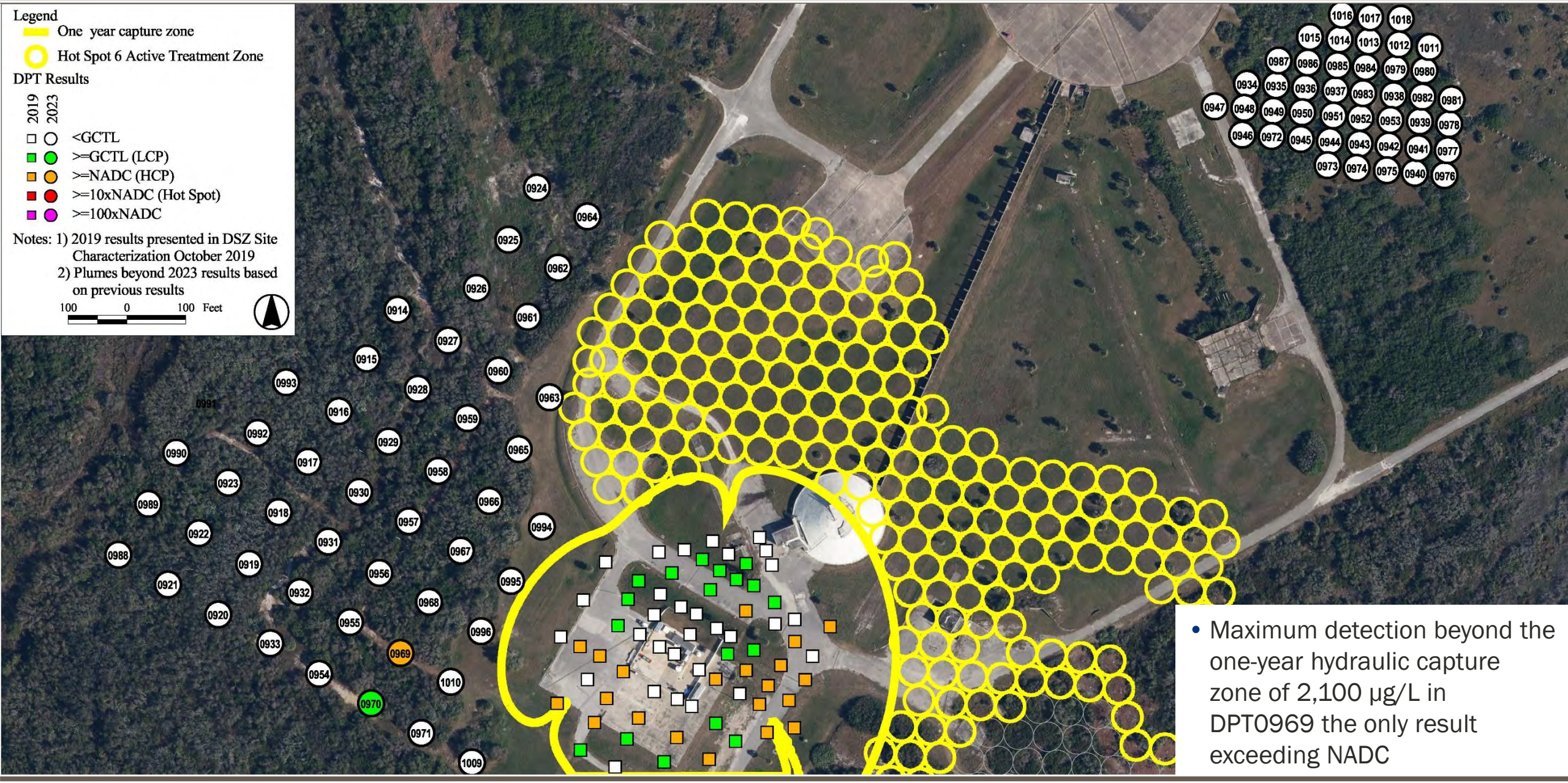
- Maximum detection beyond the one-year hydraulic capture zone of 220 µg/L in DPT0933

tDCE, Interval: 20 to 28 feet bls (Layer 1/2)



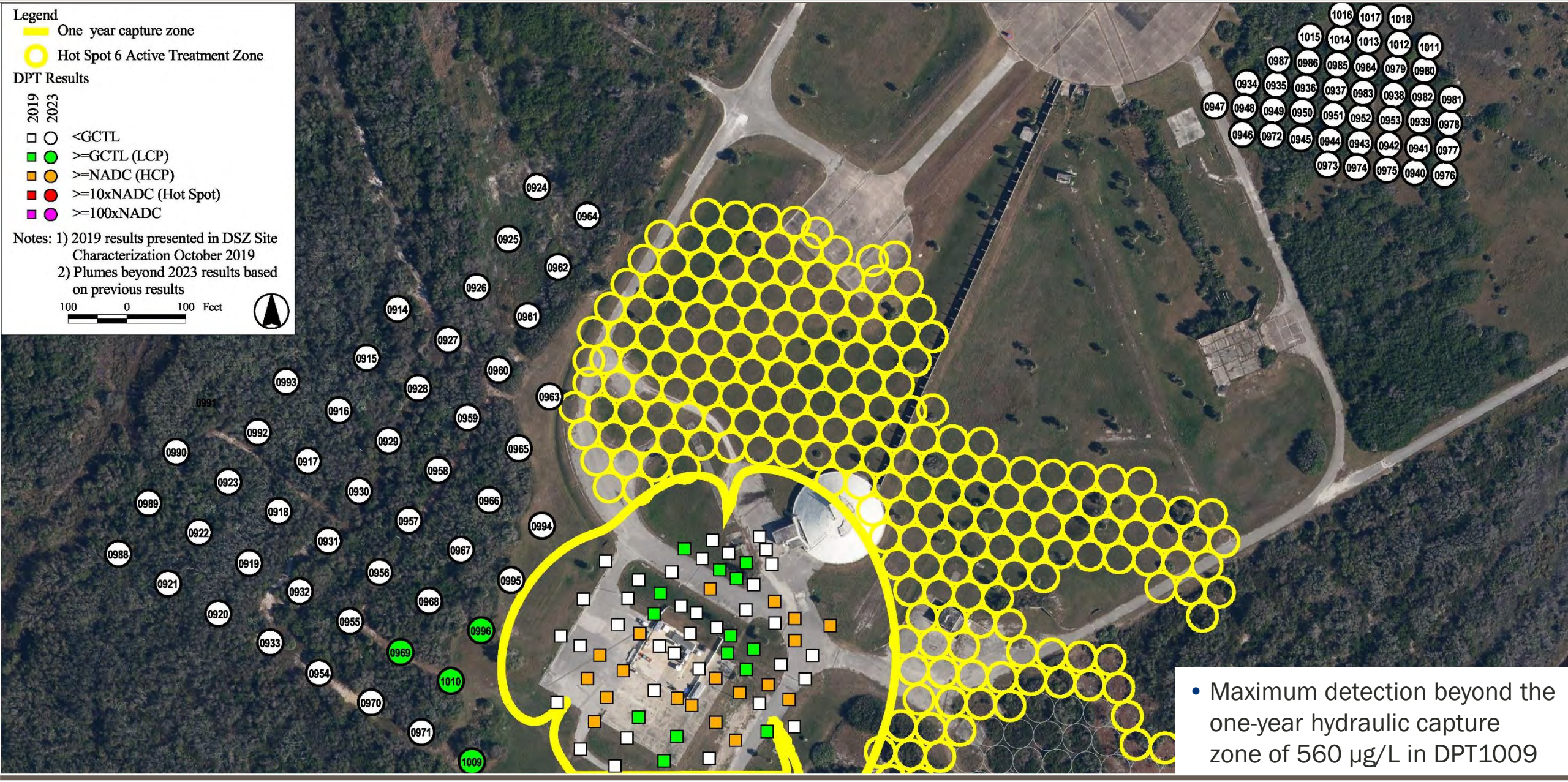
- Maximum detection beyond the one-year hydraulic capture zone of 1,700 µg/L in DPT0970 the only result exceeding NADC

tDCE, Interval: 28 to 34 feet bls (Layer 3)



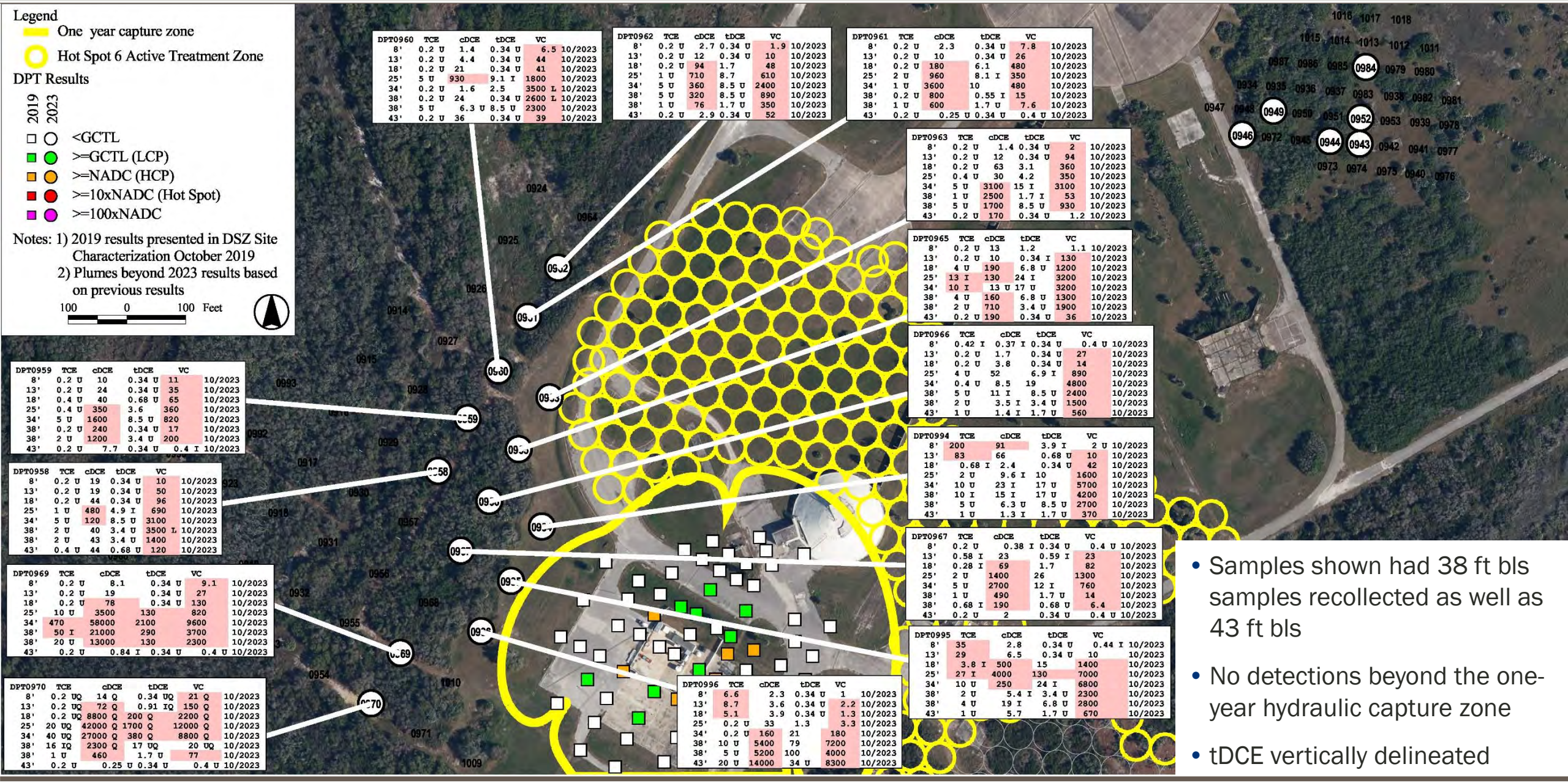
- Maximum detection beyond the one-year hydraulic capture zone of 2,100 µg/L in DPT0969 the only result exceeding NADC

tDCE, Interval: 34 to 40 feet bls (Layer 3)



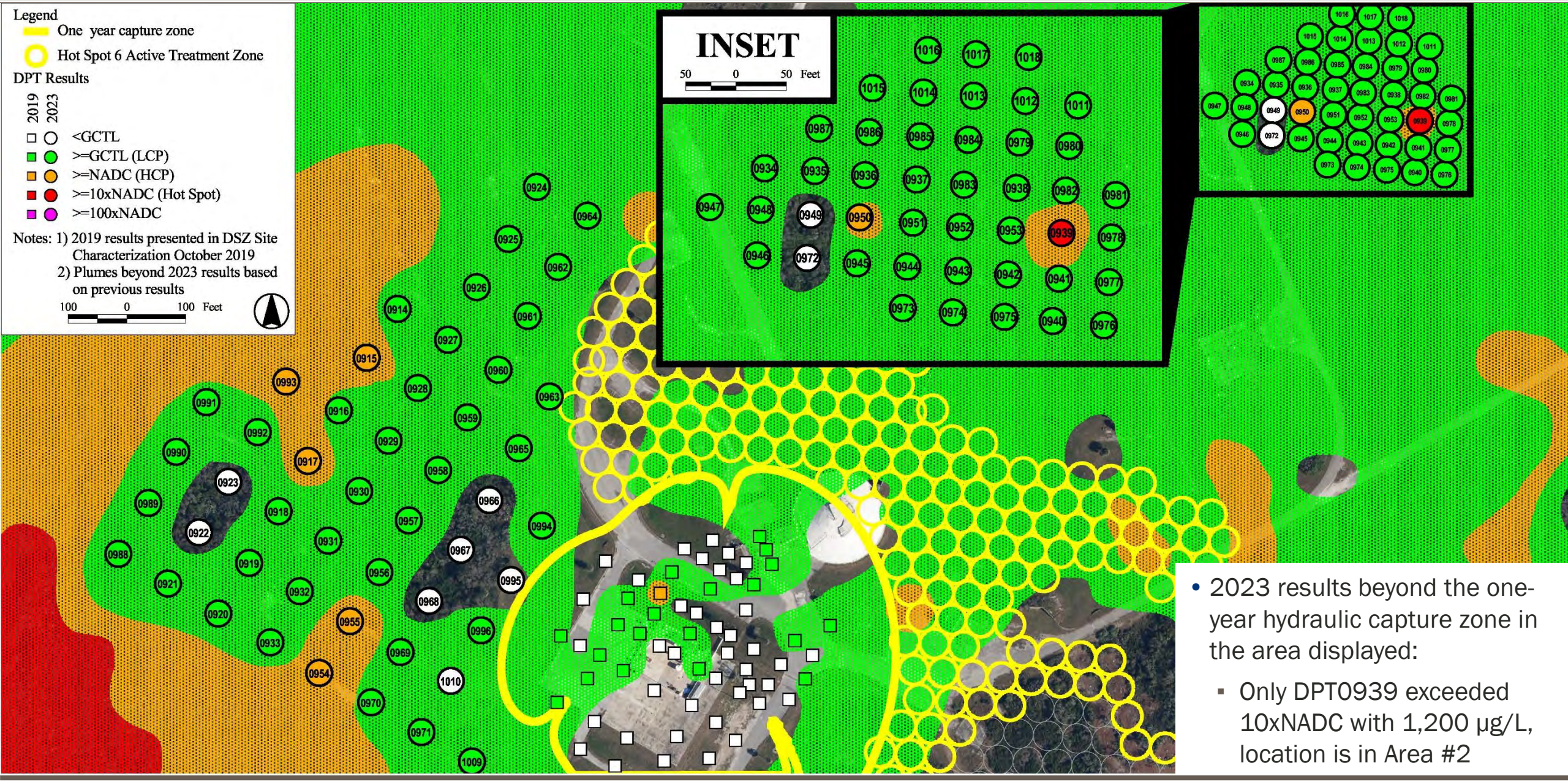
- Maximum detection beyond the one-year hydraulic capture zone of 560 µg/L in DPT1009

tDCE, Interval: >40 feet bls (Layer 3/4)



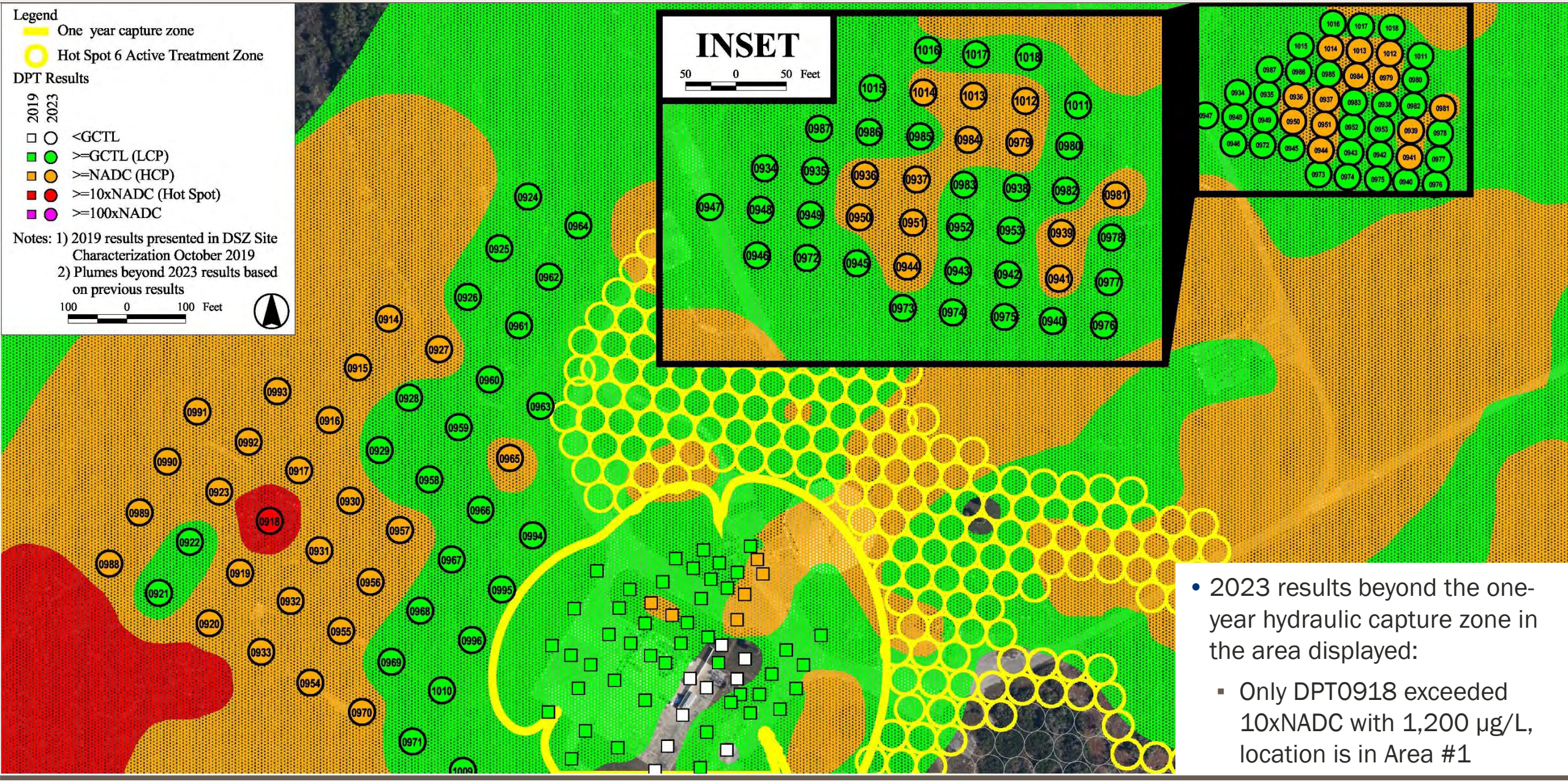
- Samples shown had 38 ft bls samples recollected as well as 43 ft bls
- No detections beyond the one-year hydraulic capture zone
- tDCE vertically delineated

VC, Interval: 0 to 10 feet bls (Layer 1)



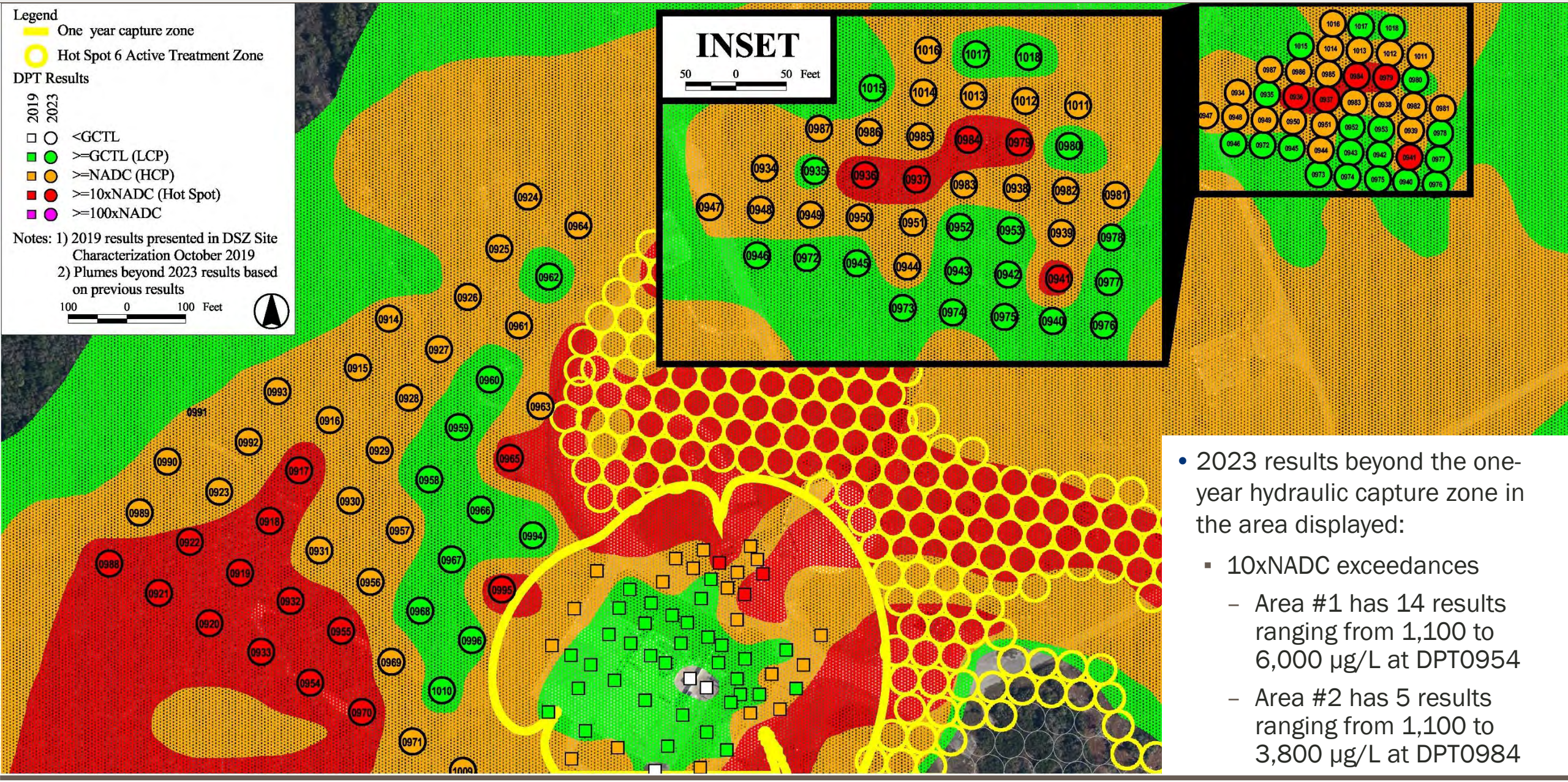
- 2023 results beyond the one-year hydraulic capture zone in the area displayed:
  - Only DPT0939 exceeded 10xNADC with 1,200 µg/L, location is in Area #2

VC, Interval: 10 to 15 feet bls (Layer 1)



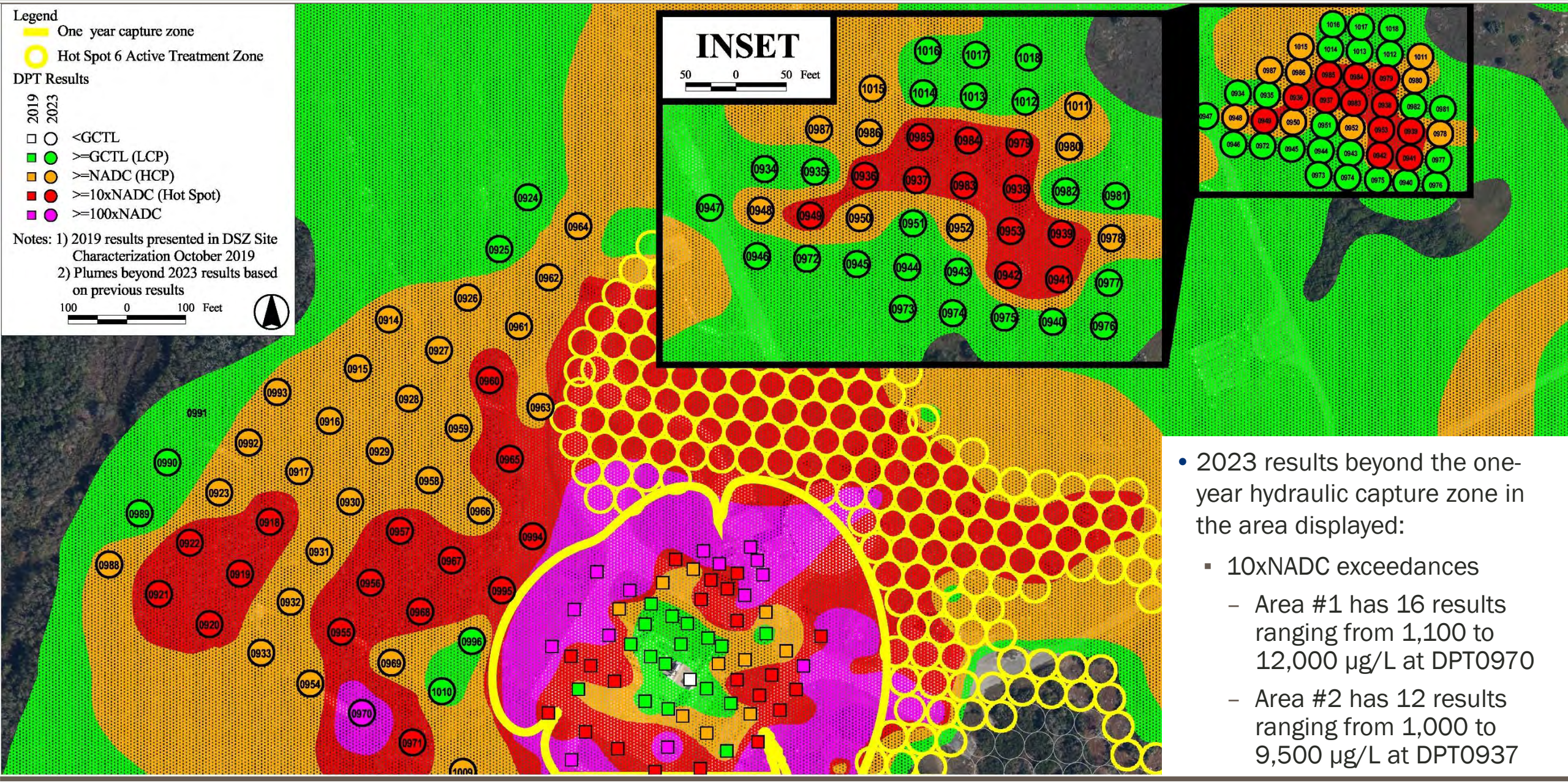
- 2023 results beyond the one-year hydraulic capture zone in the area displayed:
  - Only DPT0918 exceeded 10xNADC with 1,200 µg/L, location is in Area #1

VC, Interval: 15 to 20 feet bls (Layer 1)



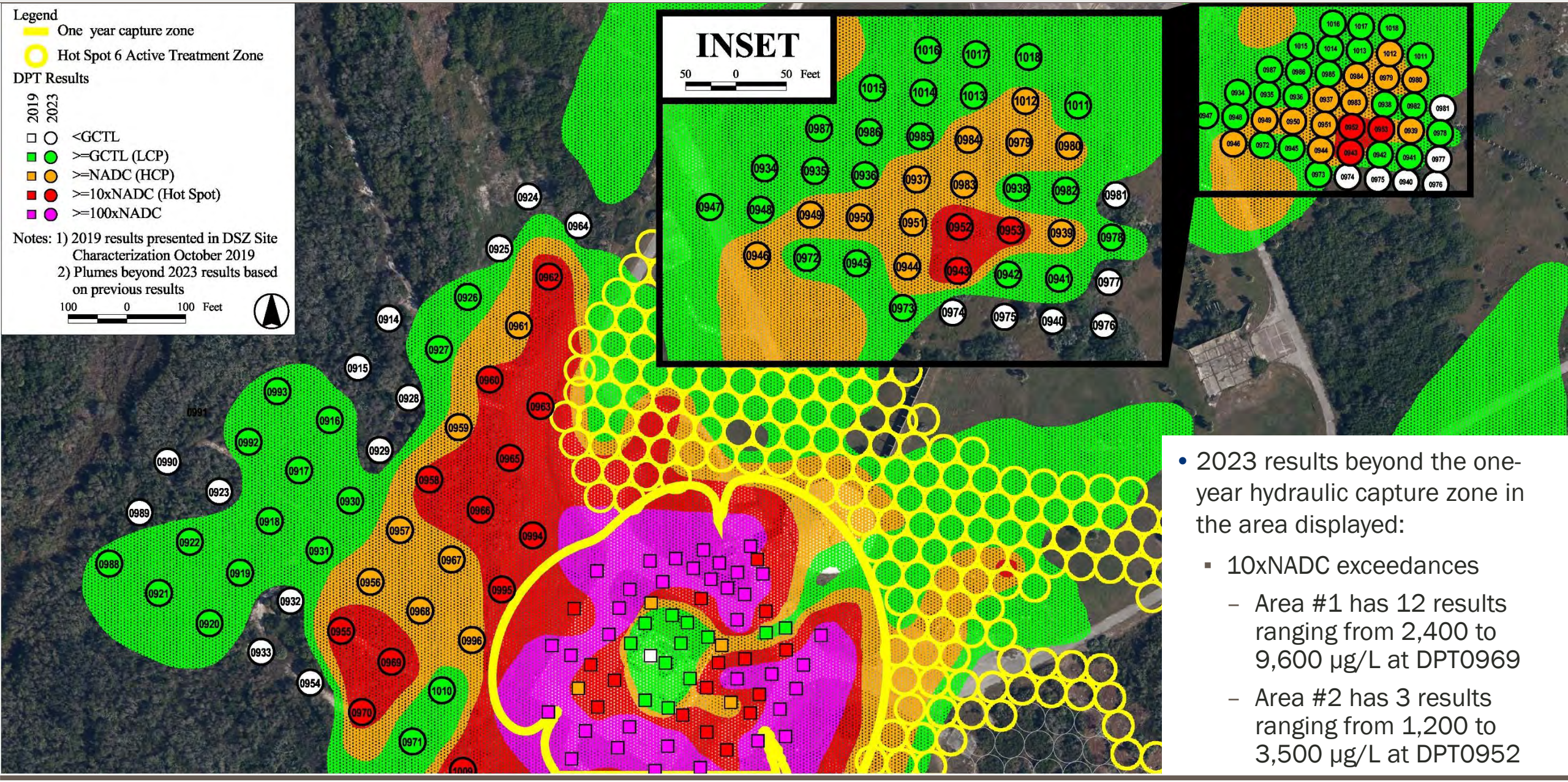
- 2023 results beyond the one-year hydraulic capture zone in the area displayed:
  - 10xNADC exceedances
    - Area #1 has 14 results ranging from 1,100 to 6,000 µg/L at DPT0954
    - Area #2 has 5 results ranging from 1,100 to 3,800 µg/L at DPT0984

VC, Interval: 20 to 28 feet bls (Layer 1/2)



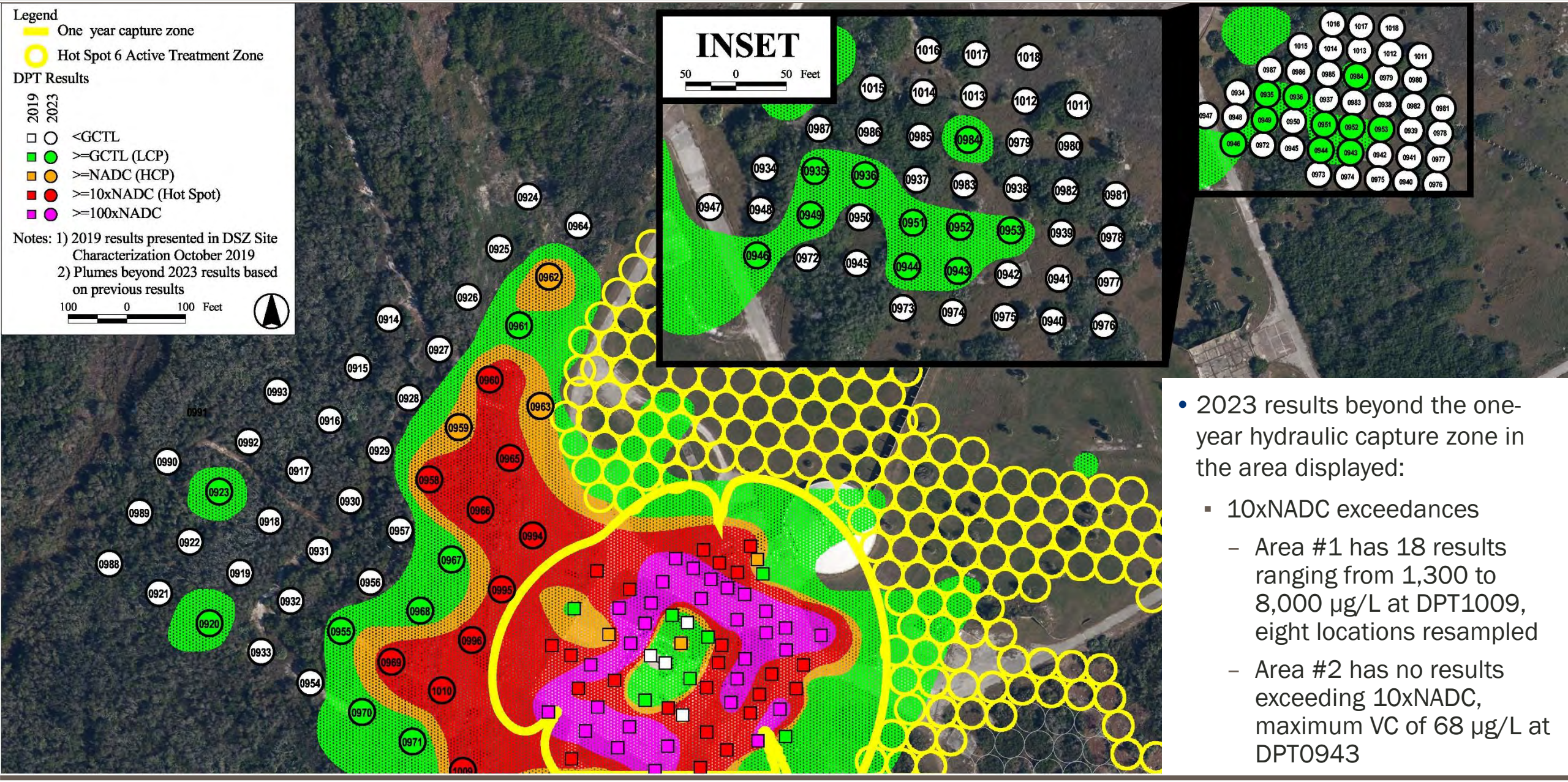
- 2023 results beyond the one-year hydraulic capture zone in the area displayed:
  - 10xNADC exceedances
    - Area #1 has 16 results ranging from 1,100 to 12,000 µg/L at DPT0970
    - Area #2 has 12 results ranging from 1,000 to 9,500 µg/L at DPT0937

VC, Interval: 28 to 34 feet bls (Layer 3)



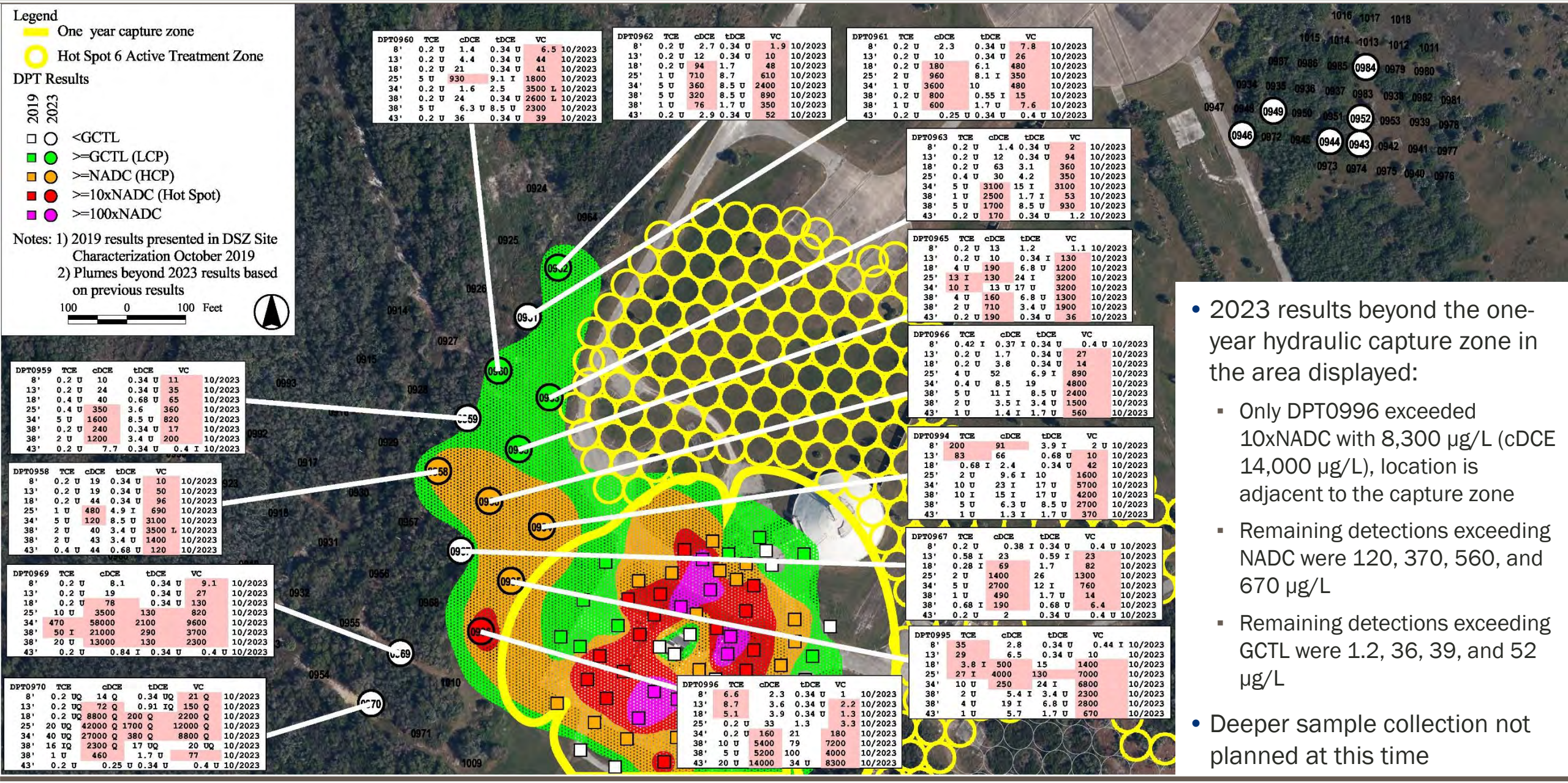
- 2023 results beyond the one-year hydraulic capture zone in the area displayed:
  - 10xNADC exceedances
    - Area #1 has 12 results ranging from 2,400 to 9,600 µg/L at DPT0969
    - Area #2 has 3 results ranging from 1,200 to 3,500 µg/L at DPT0952

VC, Interval: 34 to 40 feet bls (Layer 3)



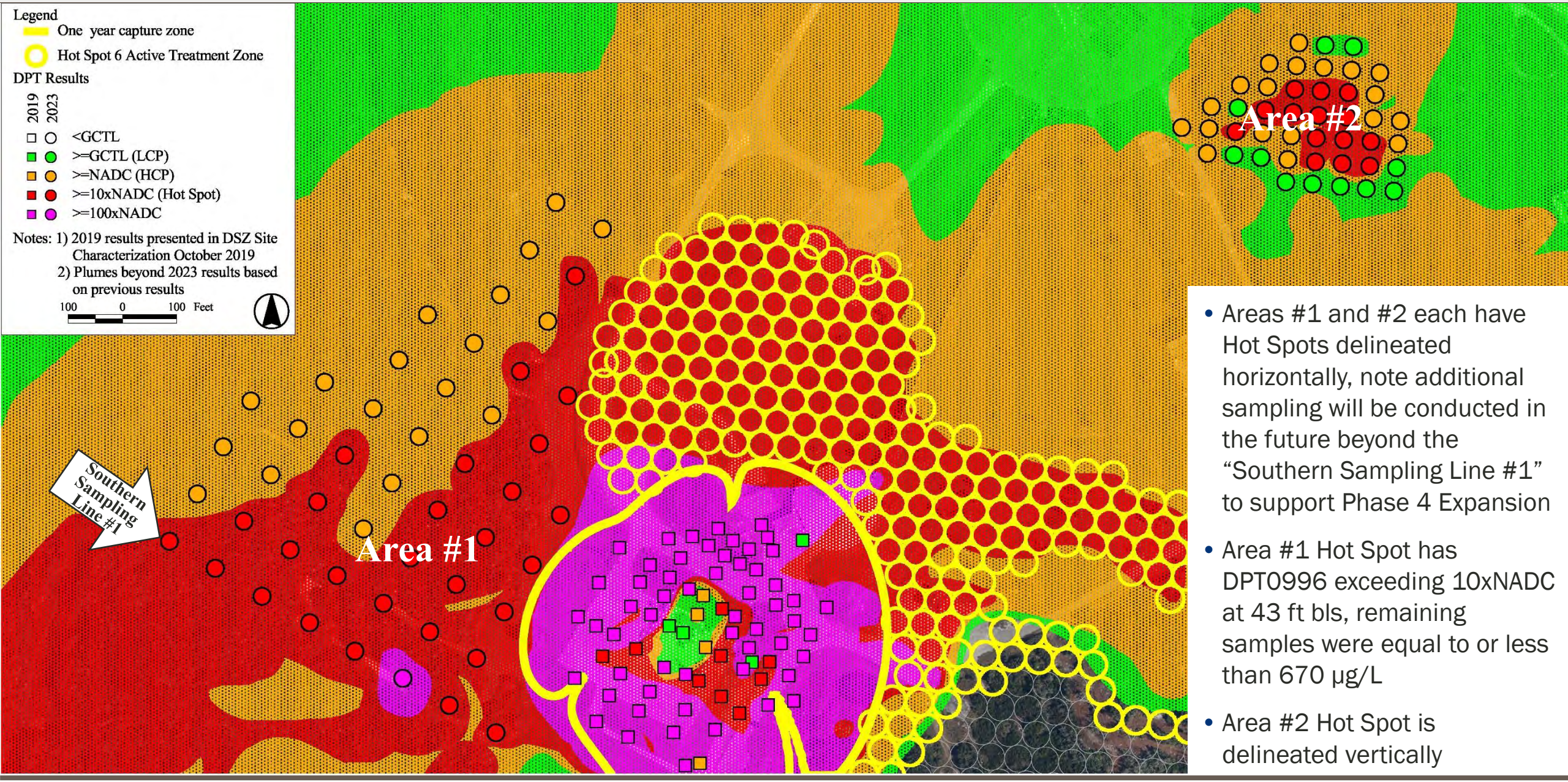
- 2023 results beyond the one-year hydraulic capture zone in the area displayed:
  - 10xNADC exceedances
    - Area #1 has 18 results ranging from 1,300 to 8,000 µg/L at DPT1009, eight locations resampled
    - Area #2 has no results exceeding 10xNADC, maximum VC of 68 µg/L at DPT0943

VC, Interval: >40 feet bls (Layer 3/4)



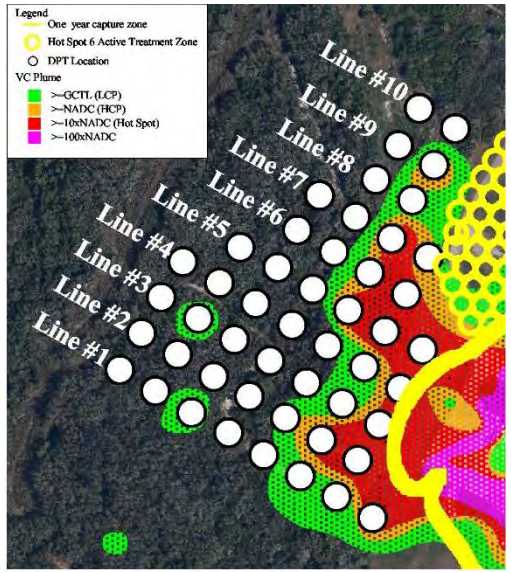
- 2023 results beyond the one-year hydraulic capture zone in the area displayed:
  - Only DPT0996 exceeded 10xNADC with 8,300 µg/L (cDCE 14,000 µg/L), location is adjacent to the capture zone
  - Remaining detections exceeding NADC were 120, 370, 560, and 670 µg/L
  - Remaining detections exceeding GCTL were 1.2, 36, 39, and 52 µg/L
- Deeper sample collection not planned at this time

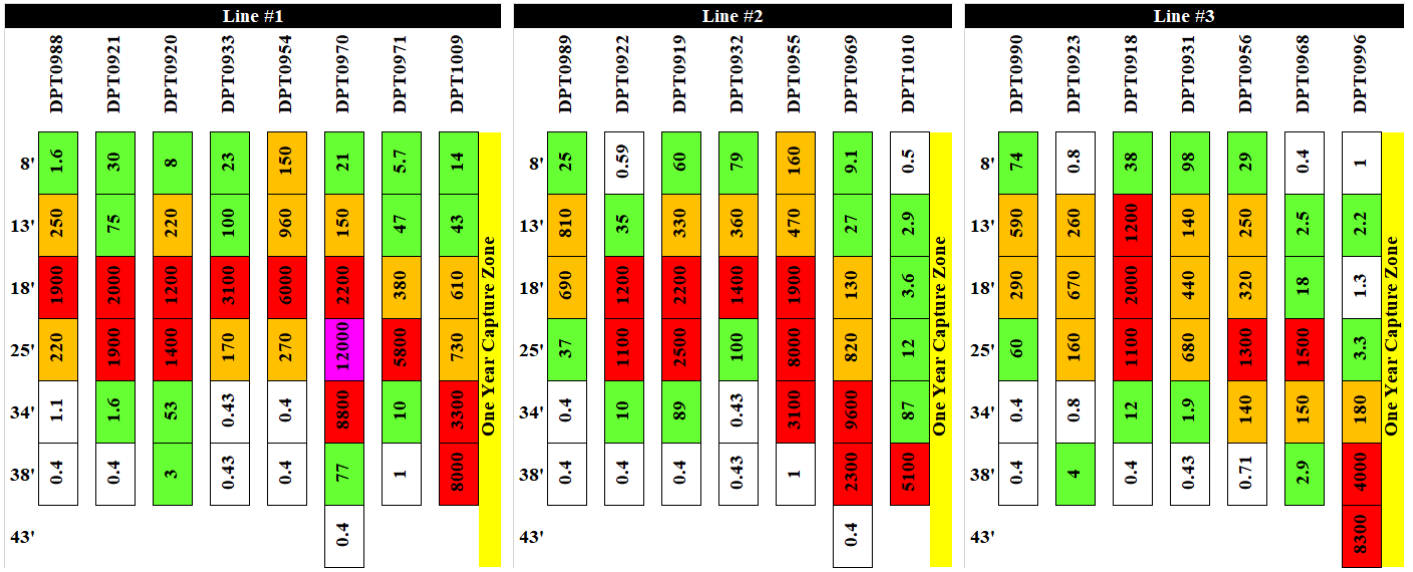
VC Plume



- Areas #1 and #2 each have Hot Spots delineated horizontally, note additional sampling will be conducted in the future beyond the "Southern Sampling Line #1" to support Phase 4 Expansion
- Area #1 Hot Spot has DPT0996 exceeding 10xNADC at 43 ft bls, remaining samples were equal to or less than 670 µg/L
- Area #2 Hot Spot is delineated vertically

Area #1 VC Vertical Profiles – West to East





Graph location image displays VC 35 to 40 ft bls plumes

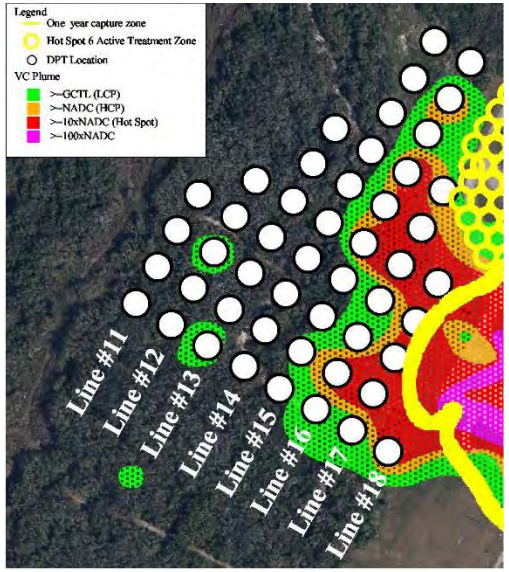
All locations vertically delineated to GCTLs except:

- >10xNADC
  - Line #1 DPT1009 (One Year Capture Zone)
  - Line #2 DPT1010 (One Year Capture Zone)
  - Line #3 DPT0996 (One Year Capture Zone)
- >NADC
  - Line #4 DPT0995 (One Year Capture Zone)
  - Line #5 DPTs 0958, 0966, and 0994 is adjacent to One Year Capture Zone
- >GCTL
  - Line #3 DPTs 0923 and DPT0968
  - Line #6 DPT0965 (Hot Spot 6 ASW Zone)
  - Line #7 DPT0960
  - Line #9 DPT0962

Deeper sample collection not planned at this time

- 43 ft bls samples at the bottom of Layer 3
- Hot Spot 6 ASW Phase 3 Expansion will propose ASWs be set on the top of Layer 4 same as previous ASW installations

Area #1 VC Vertical Profiles – South to North



Line #11

	DPT0988	DPT0989	DPT0990	DPT0991
8'	1.6	25	74	46
13'	250	810	590	570
18'	1900	690	290	
25'	220	37	60	
34'	1.1	0.4	0.4	
38'	0.4	0.4	0.4	
43'				

Line #12

	DPT0921	DPT0922	DPT0923	DPT0992	DPT0993
8'	30	0.59	0.8	1	110
13'	75	35	260	470	280
18'	2000	1200	670	540	540
25'	1900	1100	160	170	300
34'	1.6	10	0.8	8.4	8.3
38'	0.4	0.4	4	0.4	0.4
43'					

Line #13

	DPT0920	DPT0919	DPT0918	DPT0917	DPT0916	DPT0915	DPT0914
8'	8	60	38	130	55	160	50
13'	220	330	1200	830	340	350	110
18'	1200	2200	2000	1100	590	690	130
25'	1400	2500	1100	790	740	110	460
34'	53	89	12	15	7.5	0.4	0.4
38'	3	0.4	0.4	0.4	0.4	0.4	0.4
43'							

Line #14

	DPT0933	DPT0932	DPT0931	DPT0930	DPT0929	DPT0928	DPT0927	DPT0926	DPT0925	DPT0924
8'	23	79	98	53	61	22	6.8	5.6	14	21
13'	100	360	140	120	84	53	340	21	48	40
18'	3100	1400	440	350	820	660	210	200	240	140
25'	170	100	680	260	170	220	180	130	6.1	4
34'	0.43	0.43	1.9	5.5	0.43	0.43	11	8.8	0.4	0.4
38'	0.43	0.43	0.43	0.43	0.43	0.43	0.4	0.4	0.4	0.4
43'										

Line #15

	DPT0954	DPT0955	DPT0956	DPT0957	DPT0958	DPT0959	DPT0960	DPT0961	DPT0962	DPT0964
8'	150	160	29	24	10	11	6.5	7.8	1.9	9.6
13'	960	470	250	140	50	35	44	26	10	72
18'	6000	1900	320	270	96	65	41	480	48	210
25'	270	8000	1300	1200	690	360	1800	350	610	480
34'	0.4	3100	140	340	3100	820	3500	480	2400	0.97
38'	0.4	1	0.71	0.4	1400	200	2300	7.6	350	0.4
43'					120	0.4	39	0.4	52	

Line #16

	DPT0970	DPT0969	DPT0968	DPT0967	DPT0966	DPT0965	DPT0963
8'	21	9.1	0.4	0.4	0.4	1.1	2
13'	150	27	2.5	23	27	130	94
18'	2200	130	18	82	14	1200	360
25'	12000	820	1500	1300	890	3200	350
34'	8800	9600	150	760	4800	3200	3100
38'	77	2300	2.9	6.4	1500	1900	930
43'	0.4	0.4		0.4	560	36	1.2

Line #17

	DPT0971	DPT1010	DPT0996	DPT0995	DPT0994
8'	5.7	0.5	1	0.44	2
13'	47	2.9	2.2	10	10
18'	380	3.6	1.3	1400	42
25'	5800	12	3.3	7000	1600
34'	10	87	180	6800	5700
38'	1	5100	4000	2800	2700
43'			8300	670	370

Line #18

	DPT1009
8'	14
13'	43
18'	610
25'	730
34'	3300
38'	8000
43'	

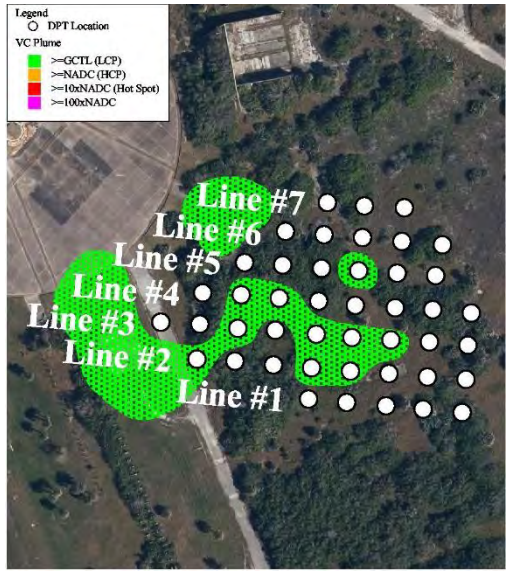
Lines #11 to #18 are perpendicular to Lines #1 to #10

All locations vertically delineated to GCTLs except:

- 10xNADC
  - Line #17 DPTs 0996, 1009, and 1010 all adjacent to One Year Capture Zone
- >NADC
  - Line #15 DPT0958
  - Line #16 DPT0966
  - Line #17 DPTs 0994 and 0995 all adjacent to One Year Capture Zone
- >GCTL
  - Line #12 DPT0923
  - Line #15 DPTs 0960 and 0962
  - Line #16 DPTs 0965 (Hot Spot 6 ASW Zone) and DPT0968

Team Consensus: Area #1 is adequately delineated horizontally and vertically to support expansion of the Hot Spot 6 Air Sparging IM

Area #2 VC Vertical Profiles – West to East



Line #1

	DPT0973	DPT0974	DPT0975	DPT0940	DPT0976
8'	2.2	5.3	21	2	23
13'	20	25	43	4.9	90
18'	72	82	8.2	3.5	20
25'	31	2.7	61	4.1	34
34'	6.5	0.4	0.4	0.4	0.4
38'	0.4	0.4	0.4	0.4	0.4
43'					

Line #2

	DPT0946	DPT0972	DPT0945	DPT0944	DPT0943	DPT0942	DPT0941	DPT0977
8'	32	0.8	36	28	7.6	13	13	2.6
13'	48	68	43	170	31	24	290	3.8
18'	96	38	88	230	16	16	1100	9.5
25'	5.7	29	23	31	41	1200	1000	23
34'	200	49	17	900	1200	16	1.8	0.4
38'	0.4	0.4	0.4	23	68	0.4	0.4	0.4
43'	0.4			0.4	0.4			

Line #3

	DPT0947	DPT0948	DPT0949	DPT0950	DPT0951	DPT0952	DPT0953	DPT0939	DPT0978
8'	38	42	0.4	130	86	74	54	1200	31
13'	54	71	47	130	120	60	44	570	15
18'	130	140	260	170	140	77	72	900	80
25'	89	570	2700	460	55	170	3700	3700	420
34'	2.6	33	600	660	890	3500	2500	180	8.2
38'	0.4	0.76	0.4	0.83	2.7	18	1.1	0.4	0.4
43'			0.4			0.4			

Line #4

	DPT0934	DPT0935	DPT0936	DPT0937	DPT0983	DPT0938	DPT0982	DPT0981
8'	55	25	38	58	58	45	15	79
13'	97	44	170	310	78	38	18	120
18'	120	83	1100	2100	350	620	980	170
25'	51	73	5200	9500	2900	4800	19	65
34'	13	74	82	420	340	33	9.5	0.4
38'	0.43	4.6	2.4	0.43	0.4	0.4	0.4	0.4
43'								

Line #5

	DPT0987	DPT0986	DPT0985	DPT0984	DPT0979	DPT0980
8'	57	54	53	23	63	25
13'	75	48	79	670	120	31
18'	120	110	440	3800	1100	4.2
25'	110	210	1500	6900	4600	370
34'	72	79	79	200	250	310
38'	0.52	0.4	0.4	0.4	0.97	0.4
43'				0.4		

Line #6

	DPT1015	DPT1014	DPT1013	DPT1012	DPT1011
8'	25	35	38	40	51
13'	74	220	170	620	86
18'	28	340	150	890	440
25'	280	29	4.1	3.8	320
34'	24	16	59	180	3
38'	0.4	0.4	0.4	0.4	0.4
43'					

Line #7

	DPT1016	DPT1017	DPT1018
8'	35	17	22
13'	56	79	60
18'	150	7.2	1.7
25'	68	38	61
34'	73	19	11
38'	0.4	0.4	0.4
43'			

Graph location image displays VC 35 to 40 ft bls plumes

All locations vertically delineated to GCTLs except:

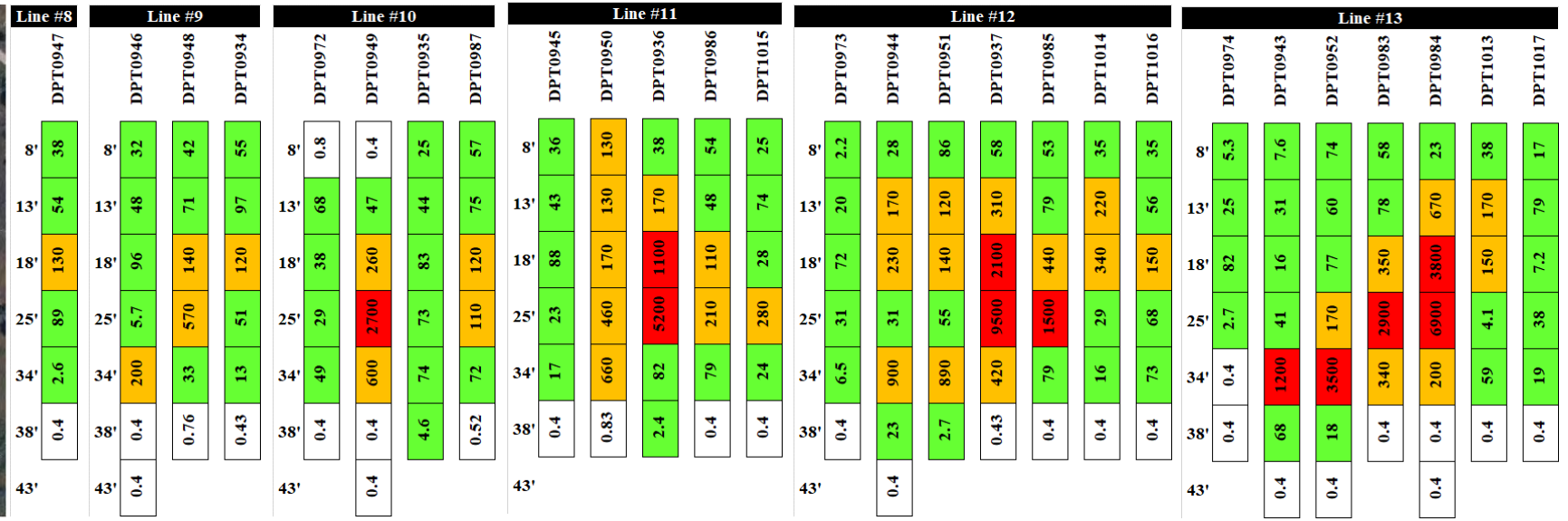
- >GCTL
  - Line #4 DPT0935 VC is 4.6 µg/L
  - Line #4 DPT0936 VC is 2.4 µg/L

Deeper sample collection not planned

- 43 ft bls samples at the bottom of Layer 3
- Hot Spot 6 ASW Phase 3 Expansion proposes ASWs be set on the top of Layer 4 same as previous ASW installations

Area #2 VC Vertical Profiles – South to North





Lines #8 to #16 are perpendicular to Lines #1 to #7

Graph location image displays VC 35 to 40 ft bls plumes

All locations vertically delineated to GCTLs except:

- >GCTL
  - Line #4 DPT0935 VC is 4.6 µg/L
  - Line #4 DPT0936 VC is 2.4 µg/L

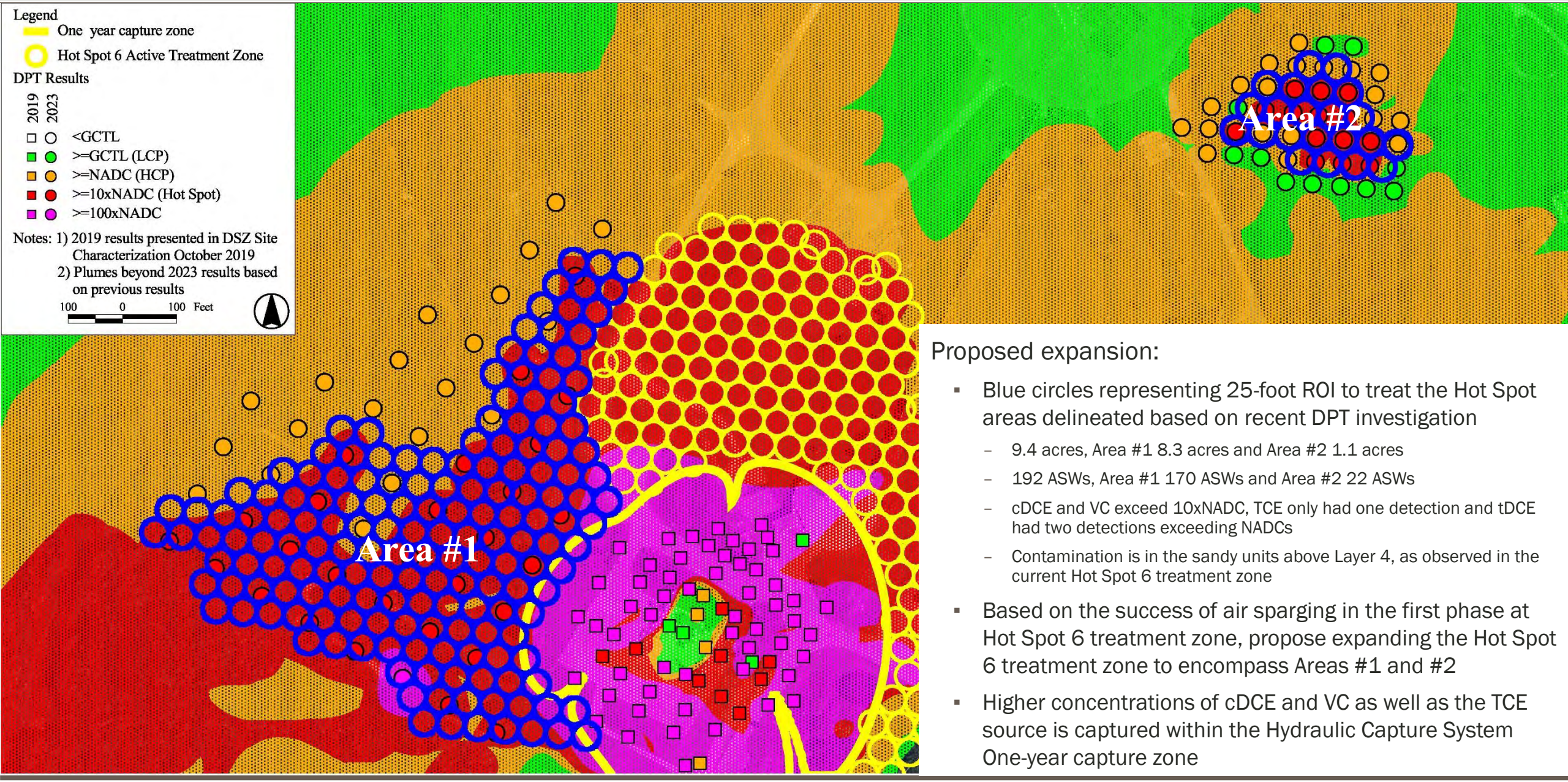
Team Consensus: Area #2 is adequately delineated horizontally and vertically to support expansion of the Hot Spot 6 Air Sparging IM

Mass Calculation for Proposed Treatment Areas

- To determine the mass of a contaminant in the aqueous phase, the volume of groundwater was first estimated by multiplying the area of the footprint of the plume by the thickness of the plume by the porosity. This volume was multiplied by the estimated average concentration of the contaminant to yield the mass in the aqueous phase.
- To determine the mass of a contaminant in the sorbed phase, the mass of soil was first estimated by multiplying the area of the footprint of the plume by the thickness of the plume by the bulk density of the soil. The concentration of the contaminant in the sorbed phase was estimated by multiplying the average groundwater concentration by the organic carbon partition coefficient by the estimated fraction organic carbon. The mass of the soil was multiplied by the estimated average concentration in the sorbed phase to yield the mass in the sorbed phase.
- Organic carbon coefficients used in mass calculation are cDCE = 45 and VC = 17 L/kg (Principles and Practices of Enhanced Anaerobic Bioremediation of Chlorinated Solvents, AFCEE, 2004)
- Porosity and Bulk Density assumed to be 0.3 and 110 lb/ft3, respectively
- FOC values from LC34-SBs 1002-028.0, 1003-028.0, 1002-034.0, 1003-034.0, and 1003-034.0 collected in January 2011
- Total mass estimated to be 469.49 pounds
  - 435.45 pounds Area #1
  - 34.04 pounds Area #2
- SVE is not proposed for the treatment area
  - Based on an estimated remedial time frame of more than one year
  - Hazardous Air Pollutants emission limits exceed total mass of 470 pounds
    - Single contaminant less than 1,000 pounds annually
    - Total contaminants less than 2,500 pounds annually
  - Cumulative LC34 calculated hydraulic containment system emissions and potential Phase 2 AS system operations emissions less than emission limits

	Area #1				Area #2			
Interval (ft bls)	Dissolved (lb)	Sorbed (lb)	Total (lb)		Dissolved (lb)	Sorbed (lb)	Total (lb)	
0 - 10	2.96	0.00	2.97	1%	0.61	0.00	0.61	2%
10 - 15	9.51	0.01	9.52	2%	1.00	0.00	1.00	3%
15 - 20	57.24	0.42	57.66	13%	4.16	0.03	4.19	12%
20 - 30	263.15	1.93	265.08	61%	25.36	0.19	25.55	75%
30 - 35	97.67	1.43	99.10	23%	2.60	0.04	2.64	8%
35 - 40	1.10	0.02	1.11	0%	0.05	0.00	0.05	0%
Totals:	431.64	3.81	435.45		33.78	0.26	34.04	

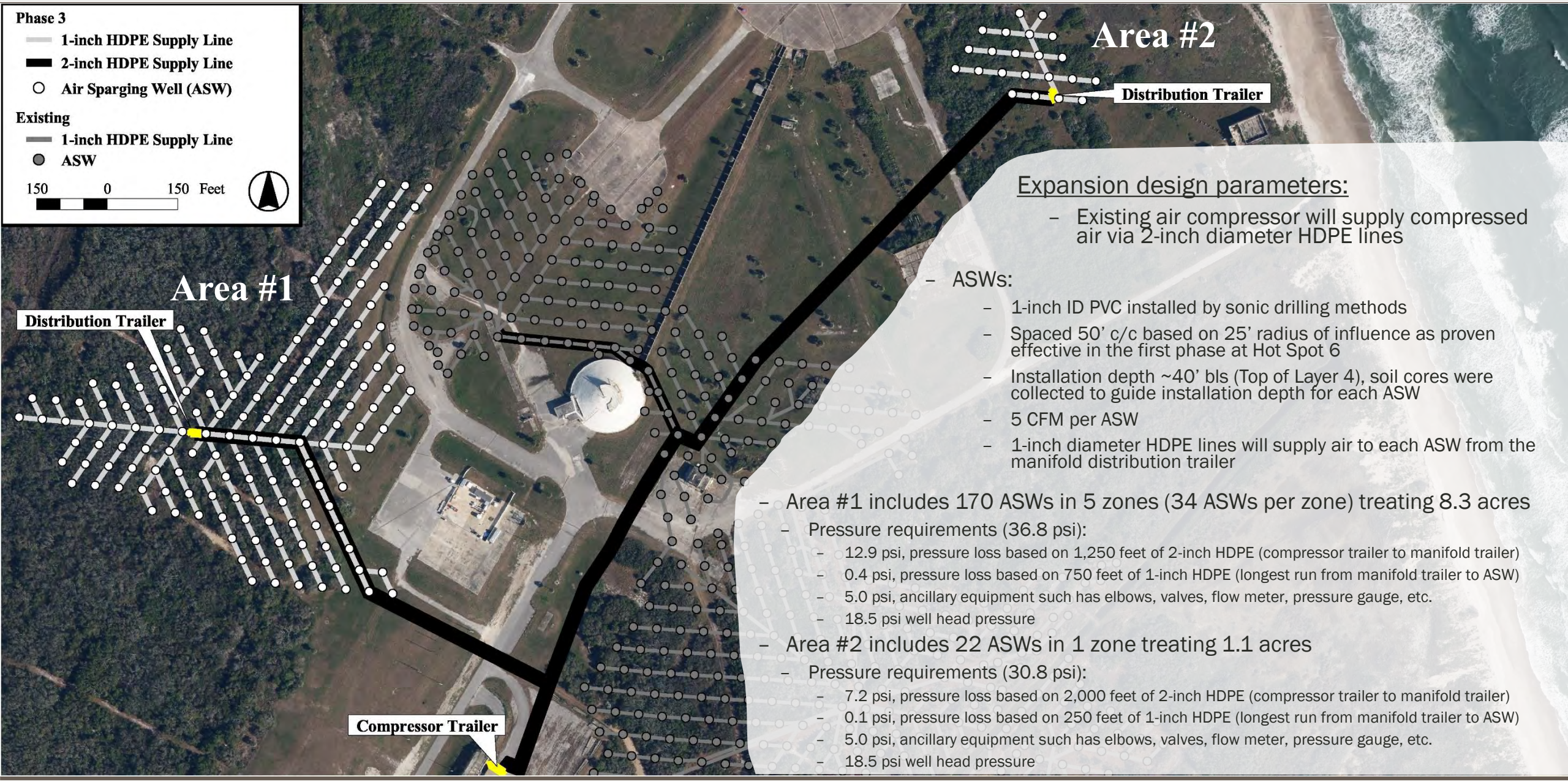
Proposed Hot Spot Area 6 Expansion Treatment Area



Proposed expansion:

- Blue circles representing 25-foot ROI to treat the Hot Spot areas delineated based on recent DPT investigation
  - 9.4 acres, Area #1 8.3 acres and Area #2 1.1 acres
  - 192 ASWs, Area #1 170 ASWs and Area #2 22 ASWs
  - cDCE and VC exceed 10xNADC, TCE only had one detection and tDCE had two detections exceeding NADCs
  - Contamination is in the sandy units above Layer 4, as observed in the current Hot Spot 6 treatment zone
- Based on the success of air sparging in the first phase at Hot Spot 6 treatment zone, propose expanding the Hot Spot 6 treatment zone to encompass Areas #1 and #2
- Higher concentrations of cDCE and VC as well as the TCE source is captured within the Hydraulic Capture System One-year capture zone

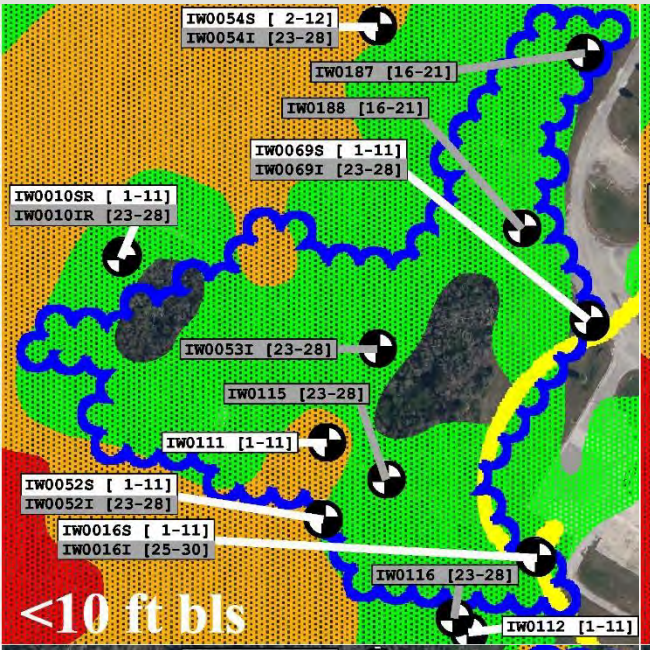
Proposed Treatment Layout and Details

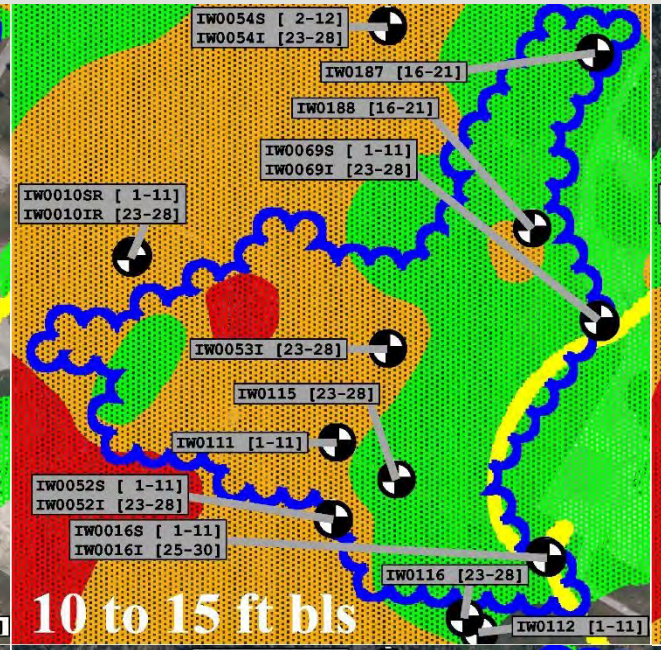


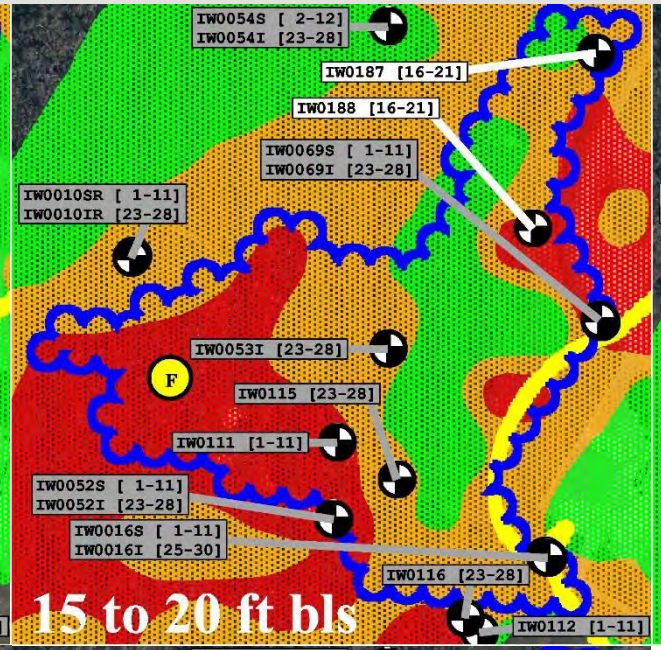
Expansion design parameters:

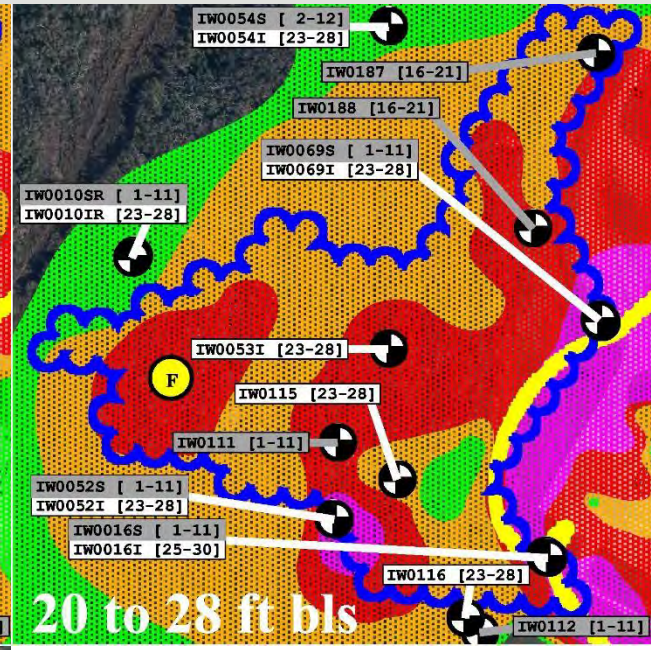
- Existing air compressor will supply compressed air via 2-inch diameter HDPE lines
- ASWs:
  - 1-inch ID PVC installed by sonic drilling methods
  - Spaced 50' c/c based on 25' radius of influence as proven effective in the first phase at Hot Spot 6
  - Installation depth ~40' bls (Top of Layer 4), soil cores were collected to guide installation depth for each ASW
  - 5 CFM per ASW
  - 1-inch diameter HDPE lines will supply air to each ASW from the manifold distribution trailer
- Area #1 includes 170 ASWs in 5 zones (34 ASWs per zone) treating 8.3 acres
  - Pressure requirements (36.8 psi):
    - 12.9 psi, pressure loss based on 1,250 feet of 2-inch HDPE (compressor trailer to manifold trailer)
    - 0.4 psi, pressure loss based on 750 feet of 1-inch HDPE (longest run from manifold trailer to ASW)
    - 5.0 psi, ancillary equipment such has elbows, valves, flow meter, pressure gauge, etc.
    - 18.5 psi well head pressure
- Area #2 includes 22 ASWs in 1 zone treating 1.1 acres
  - Pressure requirements (30.8 psi):
    - 7.2 psi, pressure loss based on 2,000 feet of 2-inch HDPE (compressor trailer to manifold trailer)
    - 0.1 psi, pressure loss based on 250 feet of 1-inch HDPE (longest run from manifold trailer to ASW)
    - 5.0 psi, ancillary equipment such has elbows, valves, flow meter, pressure gauge, etc.
    - 18.5 psi well head pressure

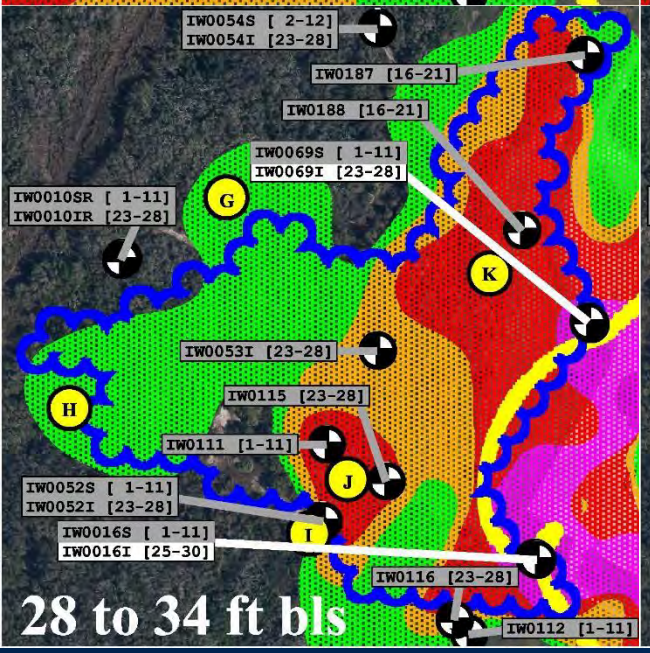
Proposed Performance Monitoring Evaluation– Area #1

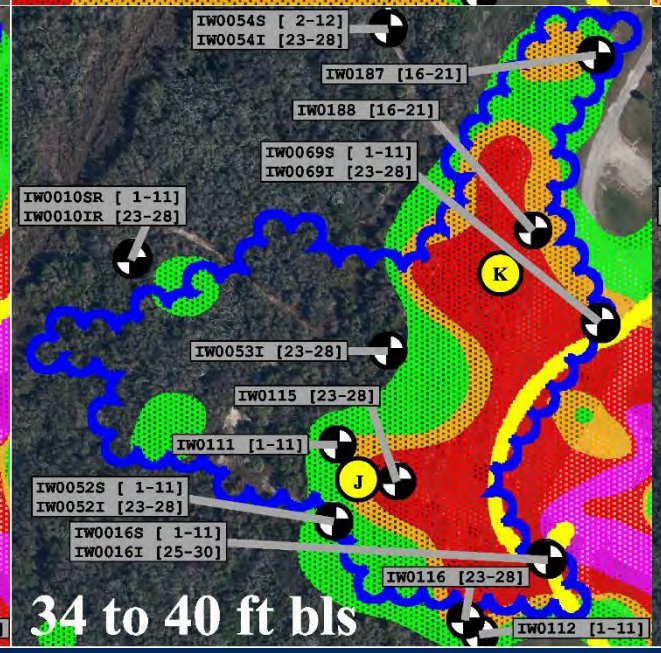


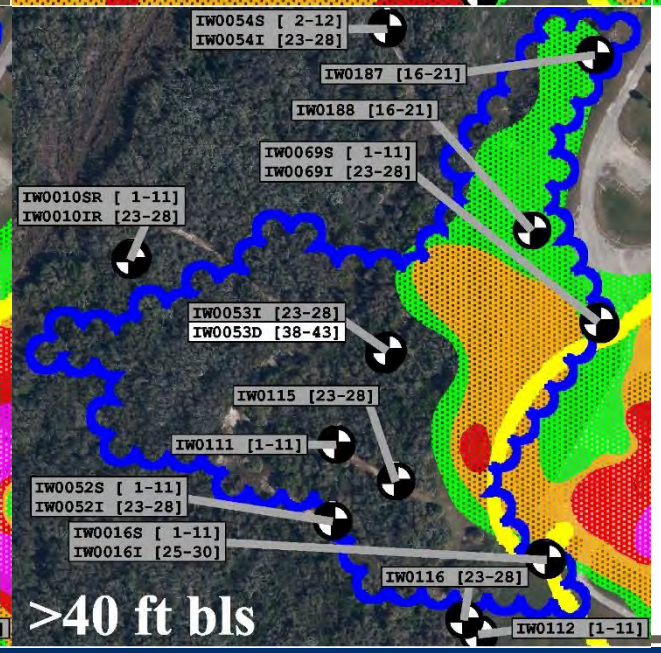












Monitoring well evaluation:

- Each image displays
  - Title defines plume depth interval
  - White shading proposed to be sampled and screened in interval shown
  - Gray shading proposed to be sampled but not screened in interval shown

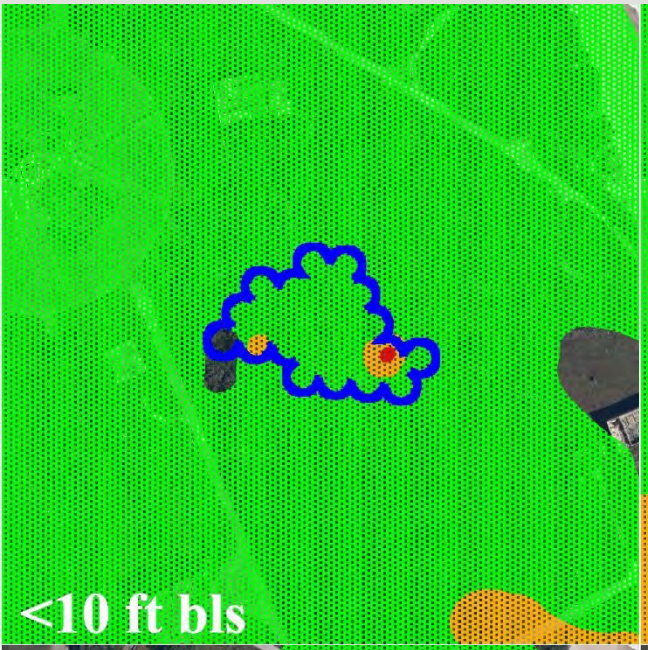
Proposed monitoring well network:

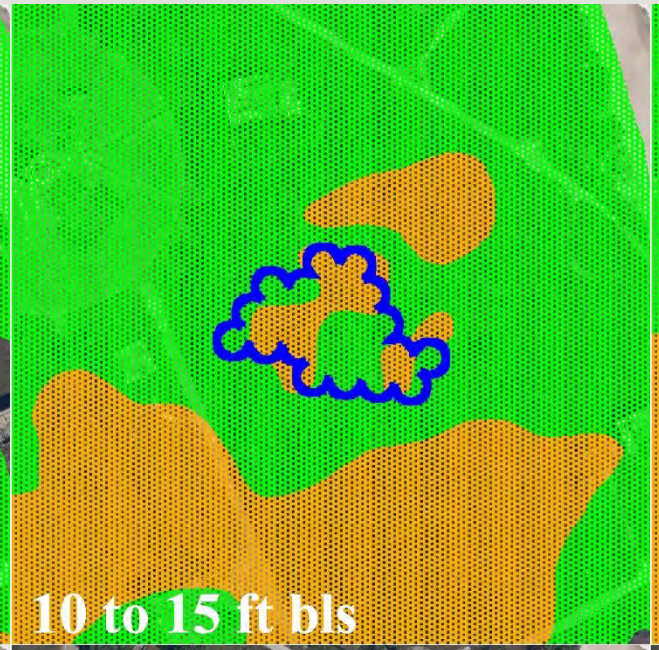
- Utilize 17 existing monitoring wells

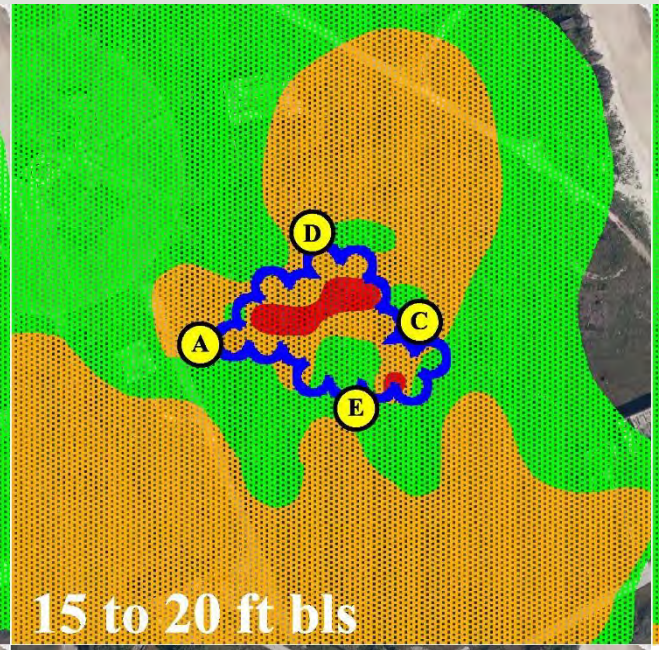
Revision:

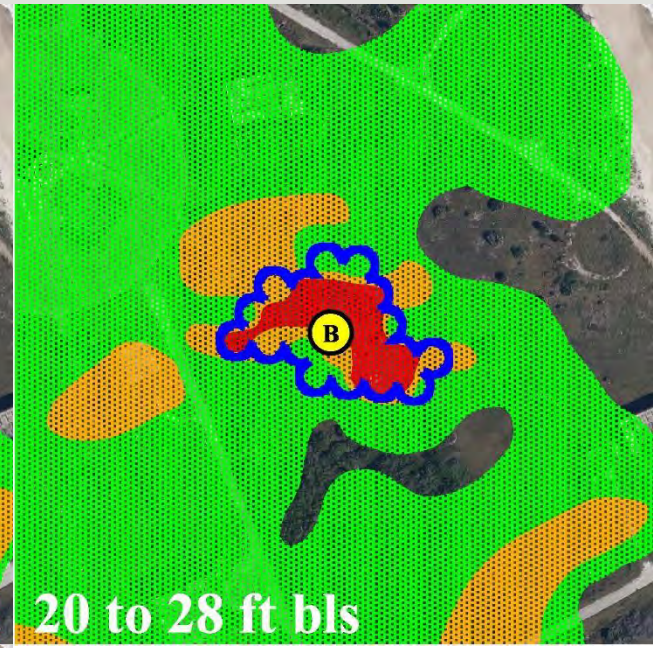
- Add IW0053D
- Install 1-inch ID PVC wells at F, G, H, I, J, and K via sonic drilling methods

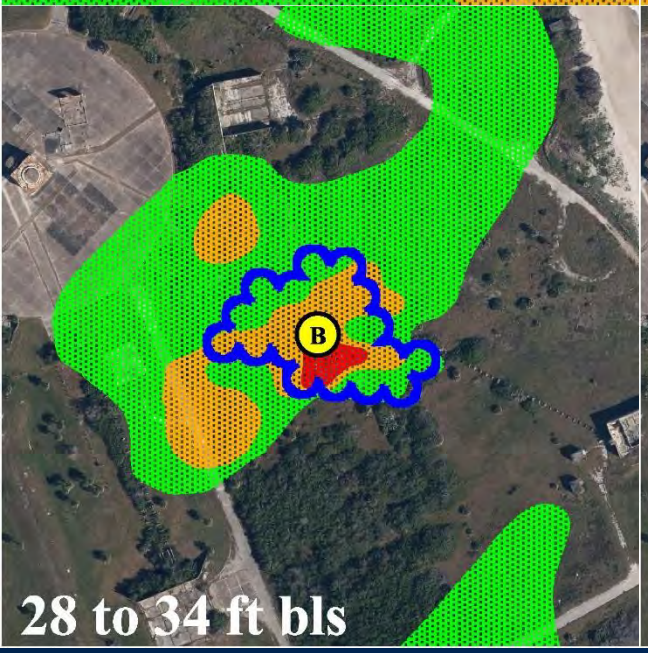
Proposed Performance Monitoring Evaluation– Area #2

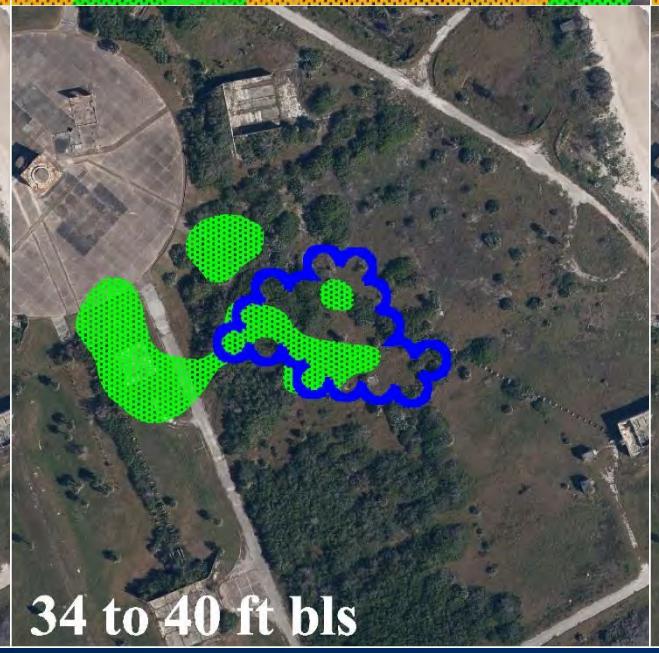














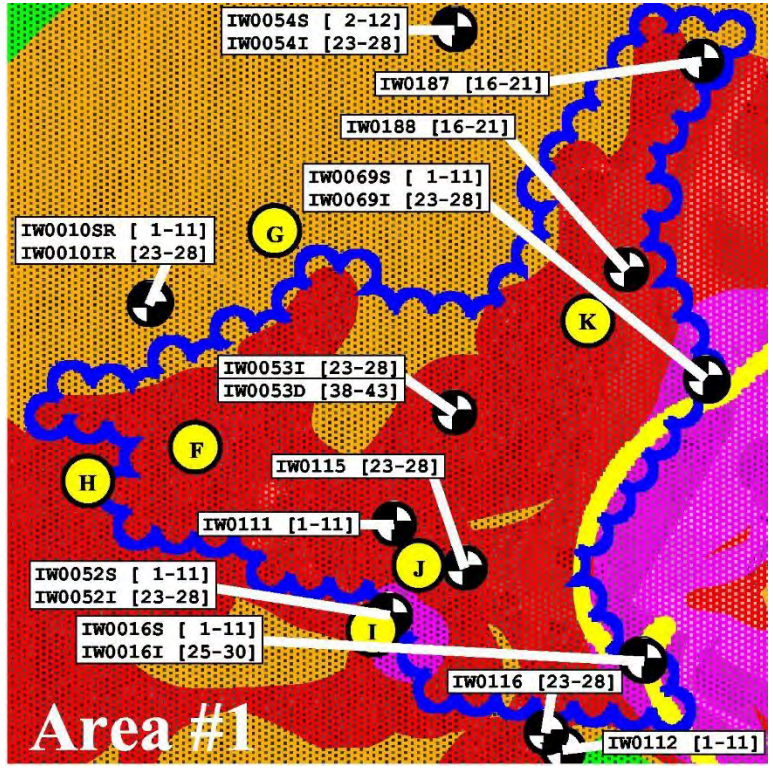
Monitoring well evaluation:

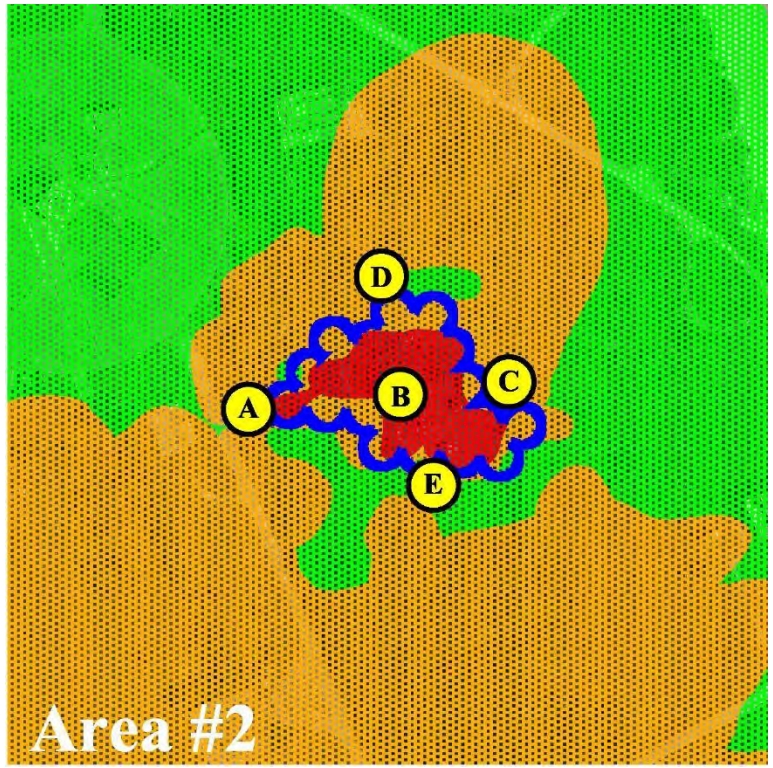
- No existing monitoring wells present
- Each image displays
  - Title defines plume depth interval
  - Yellow symbol with label designates proposed well

Proposed monitoring well network:

- Installation of six monitoring wells
- Installation method by sonic drilling
- 1-inch ID PVC
- Screened intervals shown on next slide

Proposed Performance Monitoring

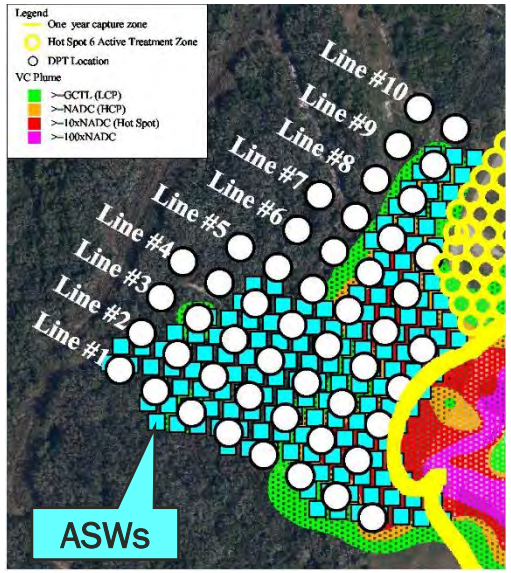


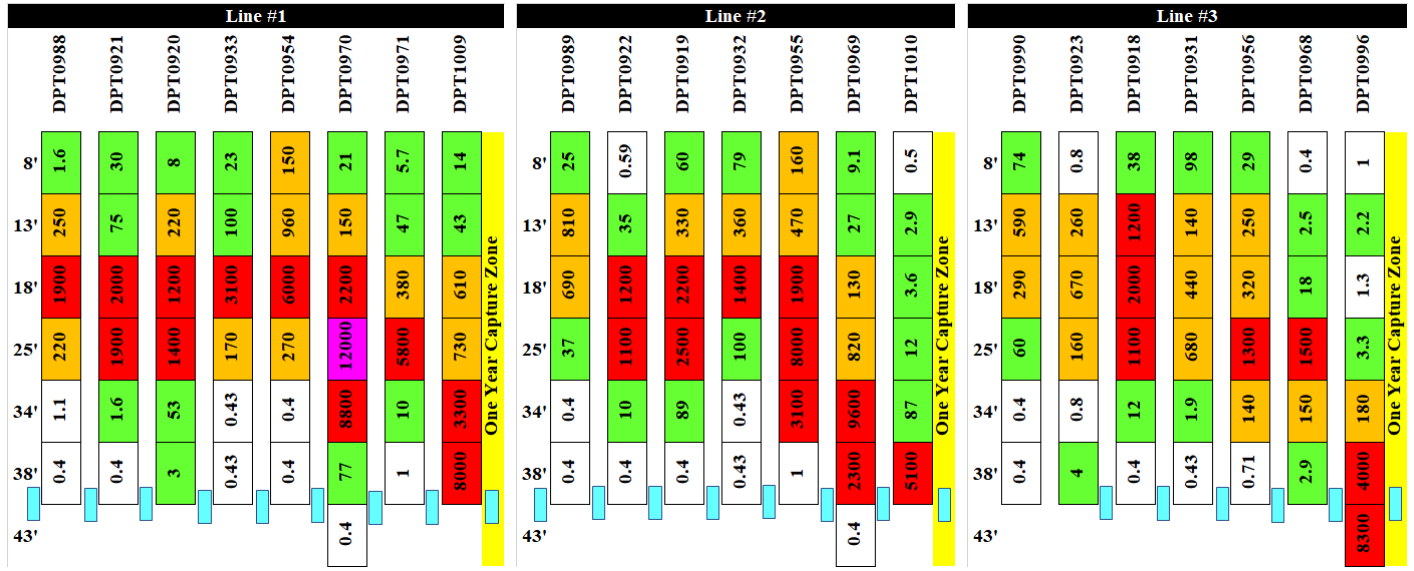


- Proposed monitoring well network:
  - ~~Utilize 17 existing monitoring wells in Area #1~~
  - Utilize 18 existing monitoring wells and install wells at locations F, G, H, I, J, and K in Area #1
  - No monitoring wells are present in Area #2, propose installing 6 monitoring wells
  - Wells will be sampled quarterly
    - Field parameters collected
    - Samples will be submitted for VOC analysis via EPA Method 8260B
    - Results will be evaluated to determine if operational adjustments are required

	Location	Screen (ft bls)	Rationale
Area #1	IW0010SR	1 to 11	Monitor edge of treatment area
	IW0010IR	23 to 28	Monitor edge of treatment area
	IW0016S	1 to 11	Monitor edge of treatment area
	IW0016I	25 to 30	Monitor edge of treatment area
	IW0052S	1 to 11	Monitor edge of treatment area
	IW0052I	23 to 28	Monitor edge of treatment area
	IW0053I	23 to 28	Monitor treatment area
	IW0053D	38 to 43	Monitor bottom of treatment area
	IW0054S	2 to 12	Monitor edge of treatment area
	IW0054I	23 to 28	Monitor edge of treatment area
	IW0069S	1 to 11	Monitor edge of treatment area
	IW0069I	23 to 28	Monitor edge of treatment area
	IW0111	1 to 11	Monitor treatment area
	IW0112	1 to 11	Monitor edge of treatment area
	IW0115	23 to 28	Monitor treatment area
	IW0116	23 to 28	Monitor edge of treatment area
	IW0187	16 to 21	Monitor treatment area
	IW0188	16 to 21	Monitor treatment area
	F	15 to 25	Monitor treatment area
	G	29 to 34	Monitor edge of treatment area
	H	29 to 34	Monitor edge of treatment area
	I	29 to 34	Monitor edge of treatment area
	J	30 to 40	Monitor treatment area
	K	30 to 40	Monitor treatment area
Area #2	A	16 to 21	Monitor edge of treatment area
	B	17 to 27	Monitor performance within treatment area
		30 to 35	Monitor bottom of the treatment area
	C	16 to 21	Monitor edge of treatment area
	D	16 to 21	Monitor edge of treatment area
	E	16 to 21	Monitor edge of treatment area

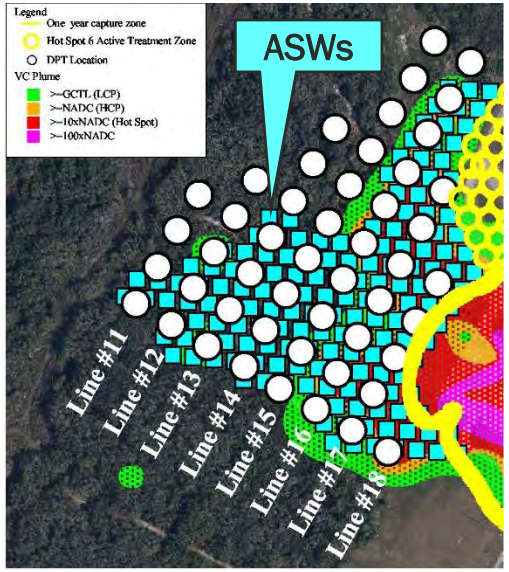
Area #1 VC Vertical Profiles with ASW Screen Depths – West to East

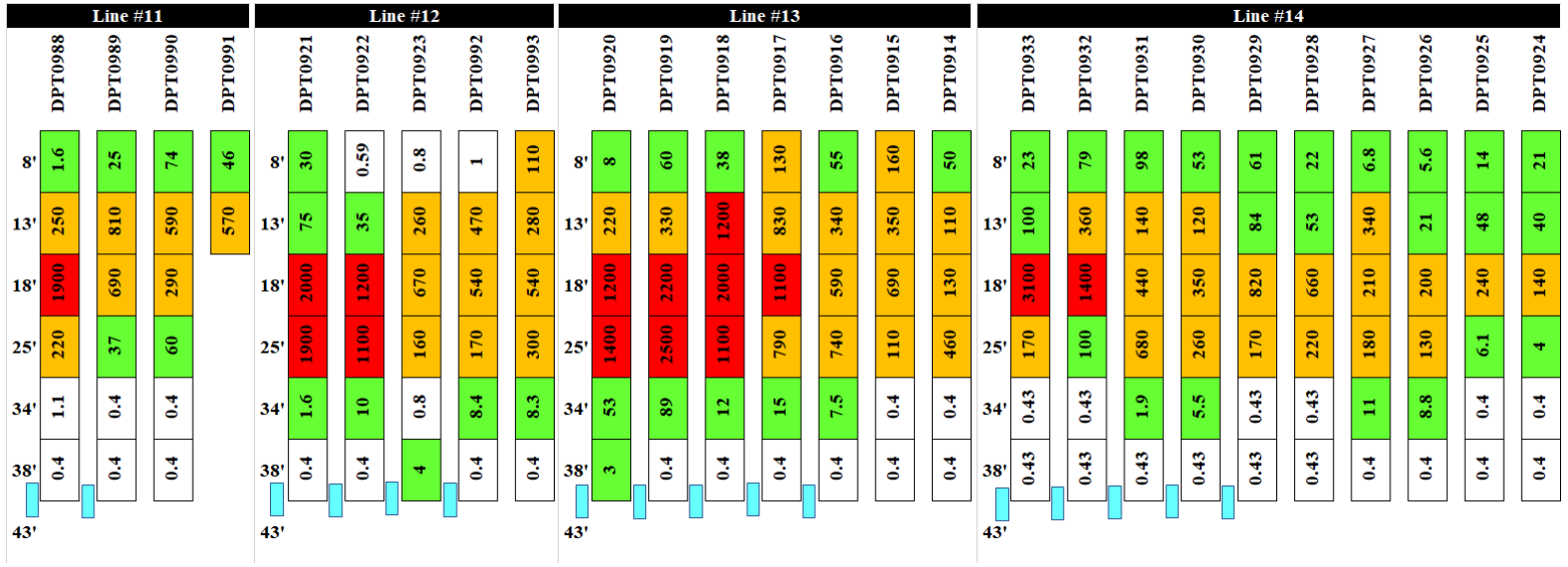


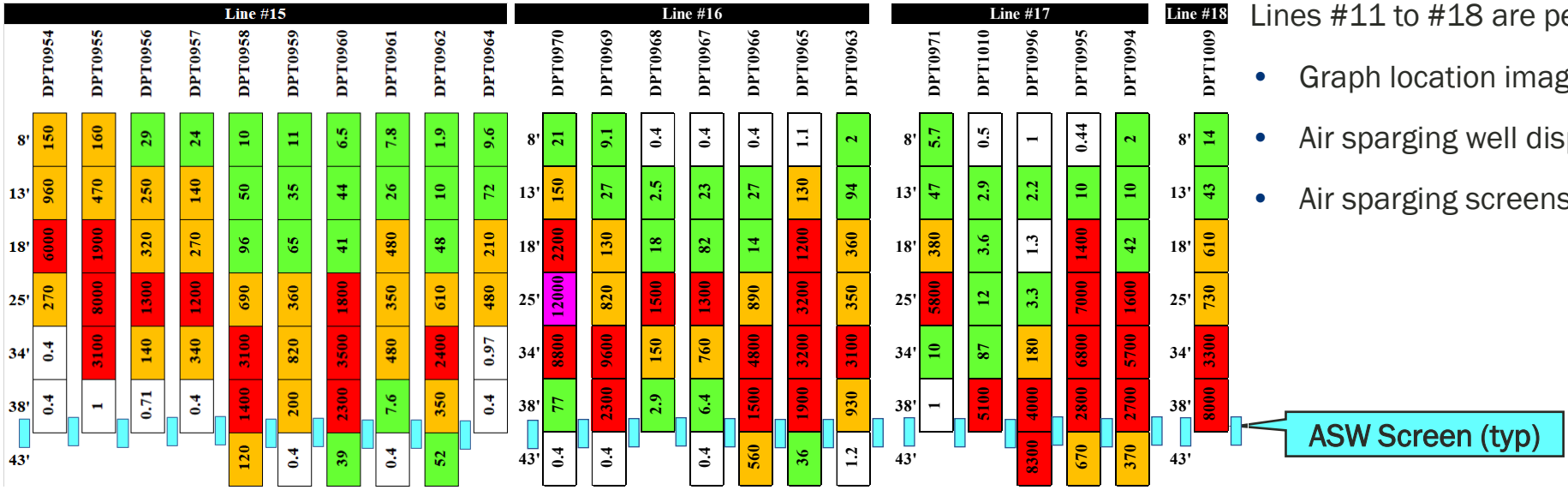


- Graph location image displays VC 35 to 40 ft bls plumes
- Air sparging well displayed as cyan squares on location image
- Air sparging screens displayed as cyan rectangles on profiles
- Hot Spot 6 ASW Phase 3 Expansion proposes ASWs be set on the top of Layer 4 same as previous ASW installations

Area #1 VC Vertical Profiles with ASW Screen Depths – South to North





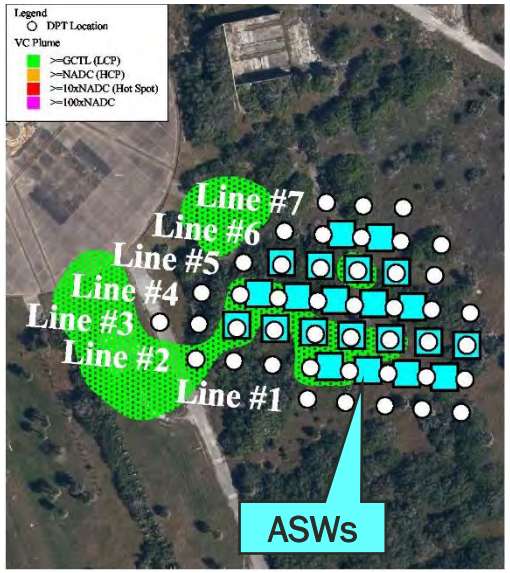


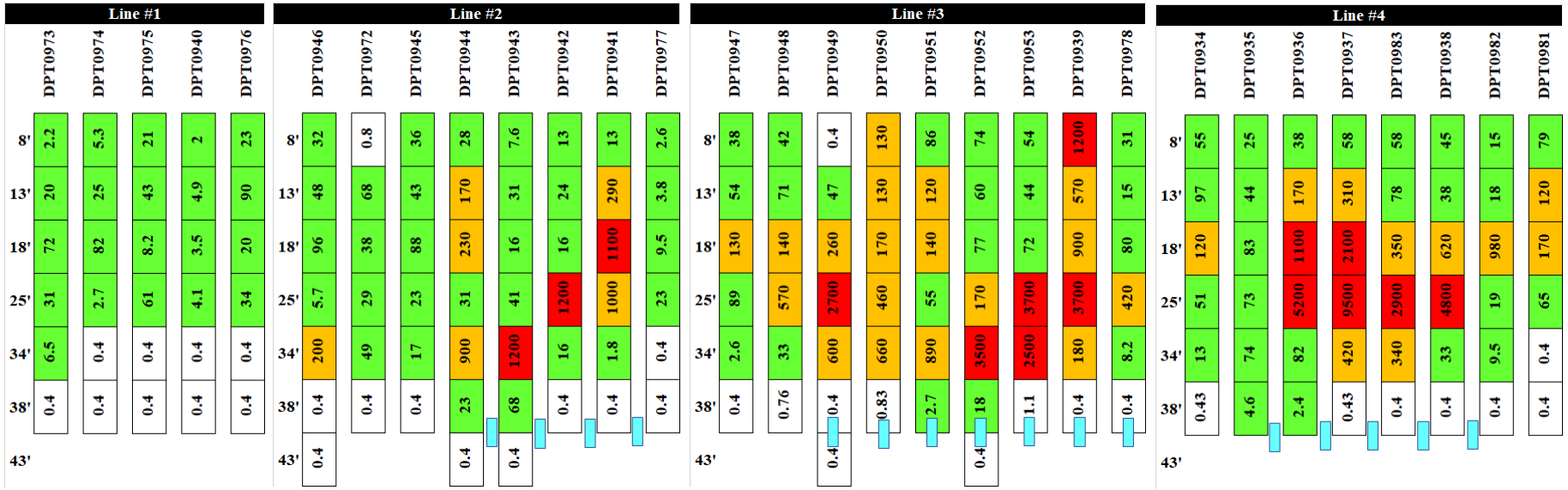
ASW Screen (typ)

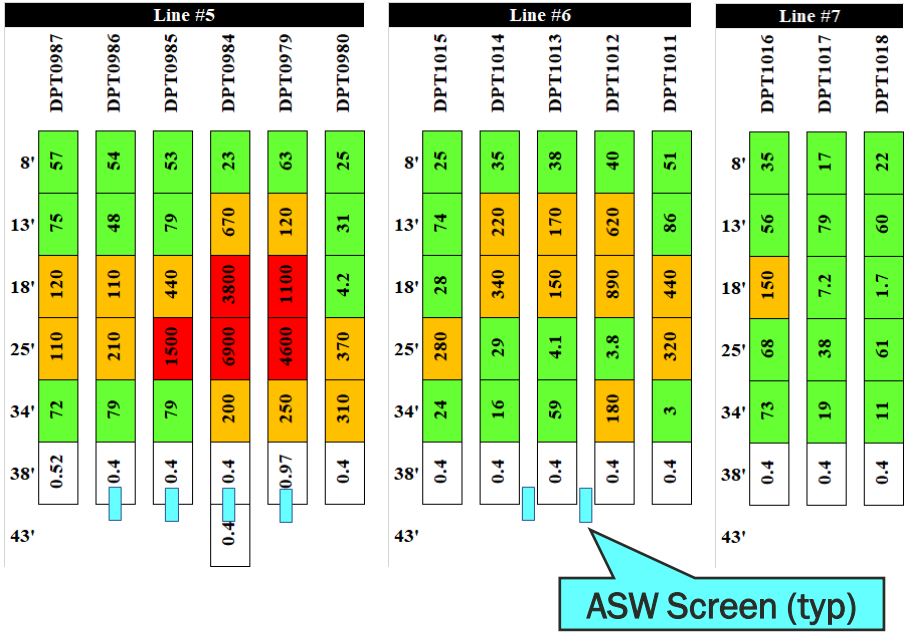
Lines #11 to #18 are perpendicular to Lines #1 to #10

- Graph location image displays VC 35 to 40 ft bls plumes
- Air sparging well displayed as cyan squares on location image
- Air sparging screens displayed as cyan rectangles on profiles

Area #2 VC Vertical Profiles with ASW Screen Depths – West to East





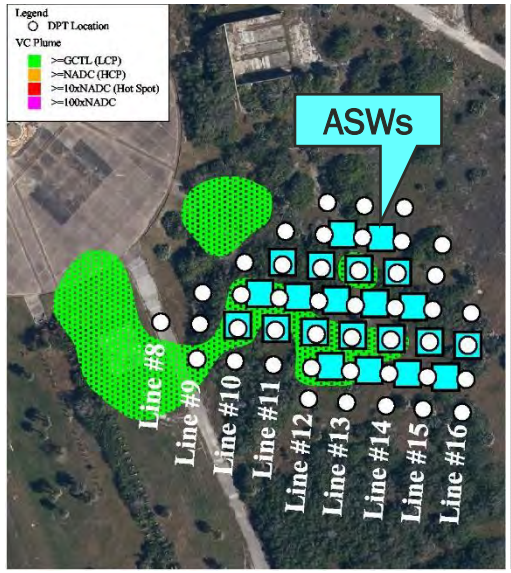


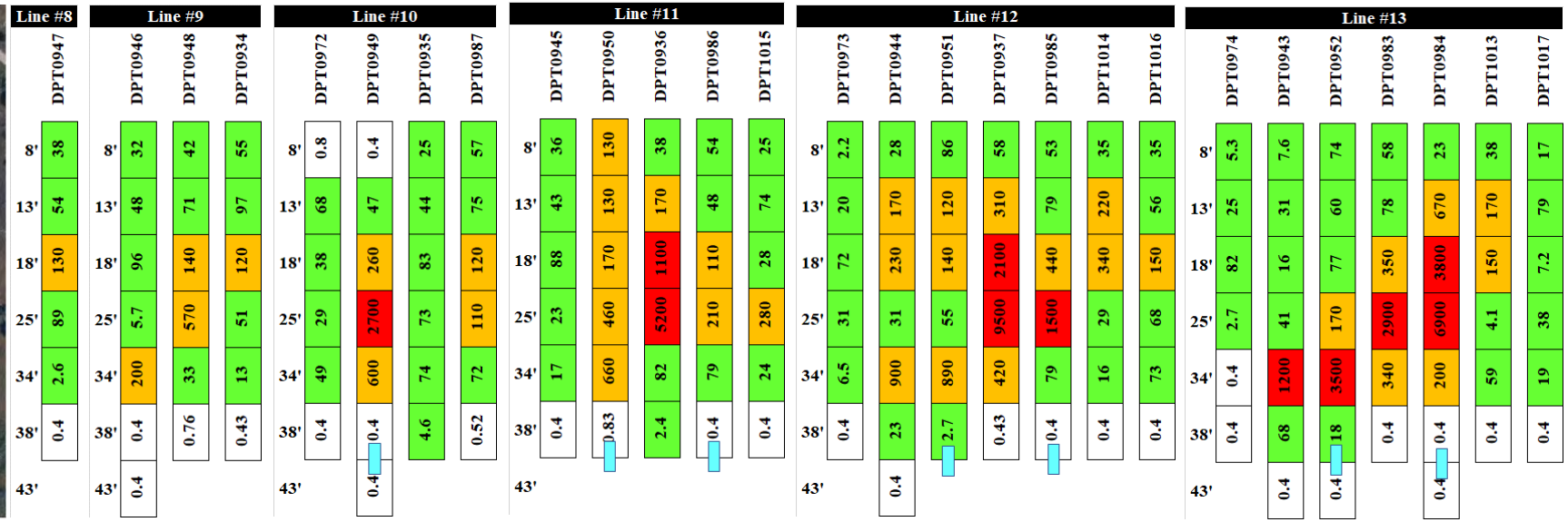
Graph location image displays VC 35 to 40 ft bls plumes

Air sparging well displayed as cyan squares on location image

Air sparging screens displayed as cyan rectangles on profiles

Area #2 VC Vertical Profiles with ASW Screen Depths – South to North





Lines #8 to #16 are perpendicular to Lines #1 to #7

Graph location image displays VC 35 to 40 ft bls plumes

Air sparging well displayed as cyan squares on location image

Air sparging screens displayed as cyan rectangles on profiles

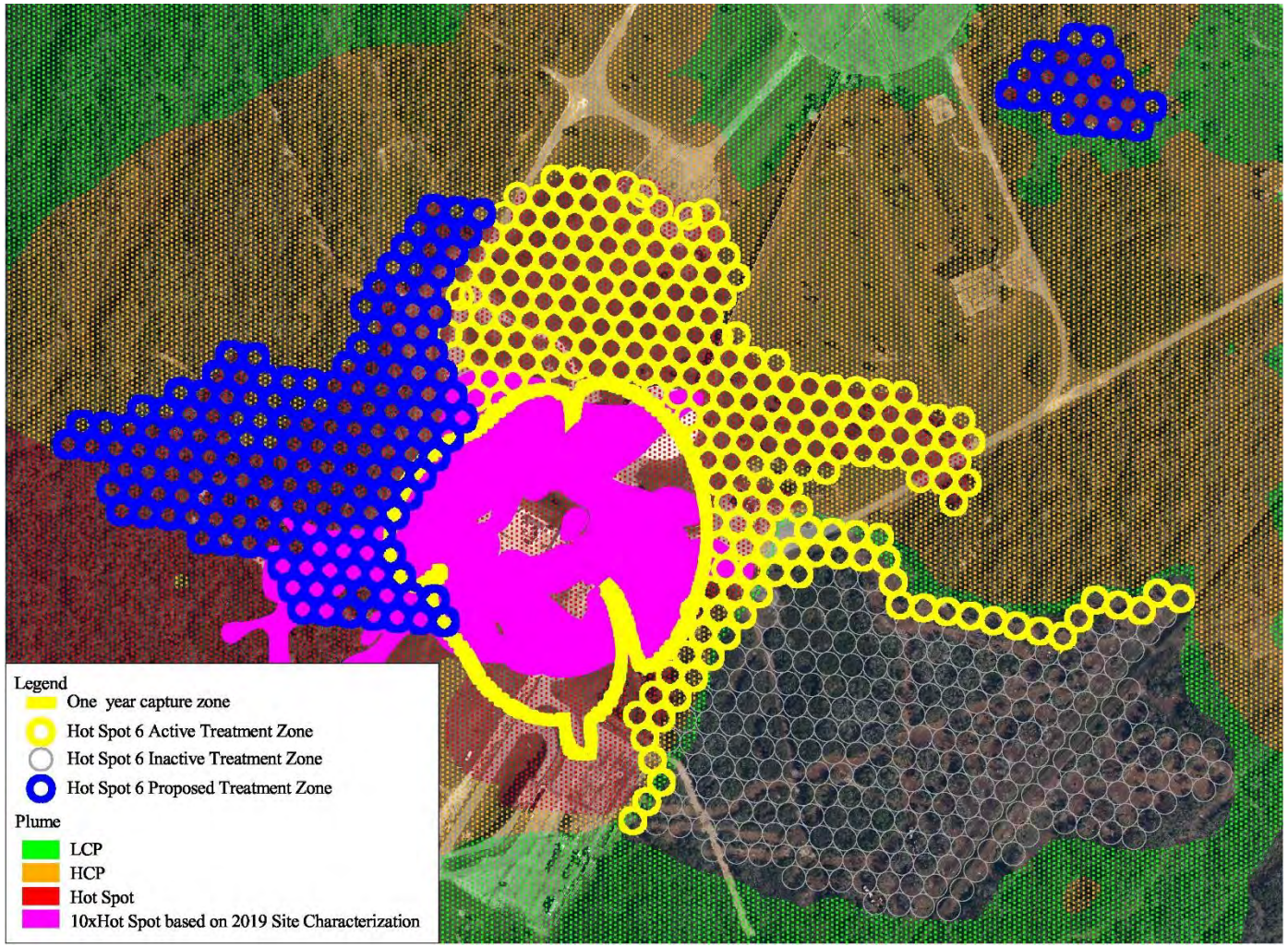
Proposed Phase Three Expansion

HS6 Interim Measures

- System Design
  - Installation depth ~40’ bls (Top of Layer 4)
  - 25’ ROI, spaced 50’ on center (c/c)
  - 5 CFM per ASW
- Full-scale operations
  - July 2018 – 160 ASWs
  - May 2019 – 300 ASWs, 140 new ASWs
  - August 2023 – 238 ASWs, 190 new ASWs
- To date, 15.1 acres treated to less than GCTLs
- Phase 3 has similar contaminant concentrations as previous treatment areas

Team Consensus:

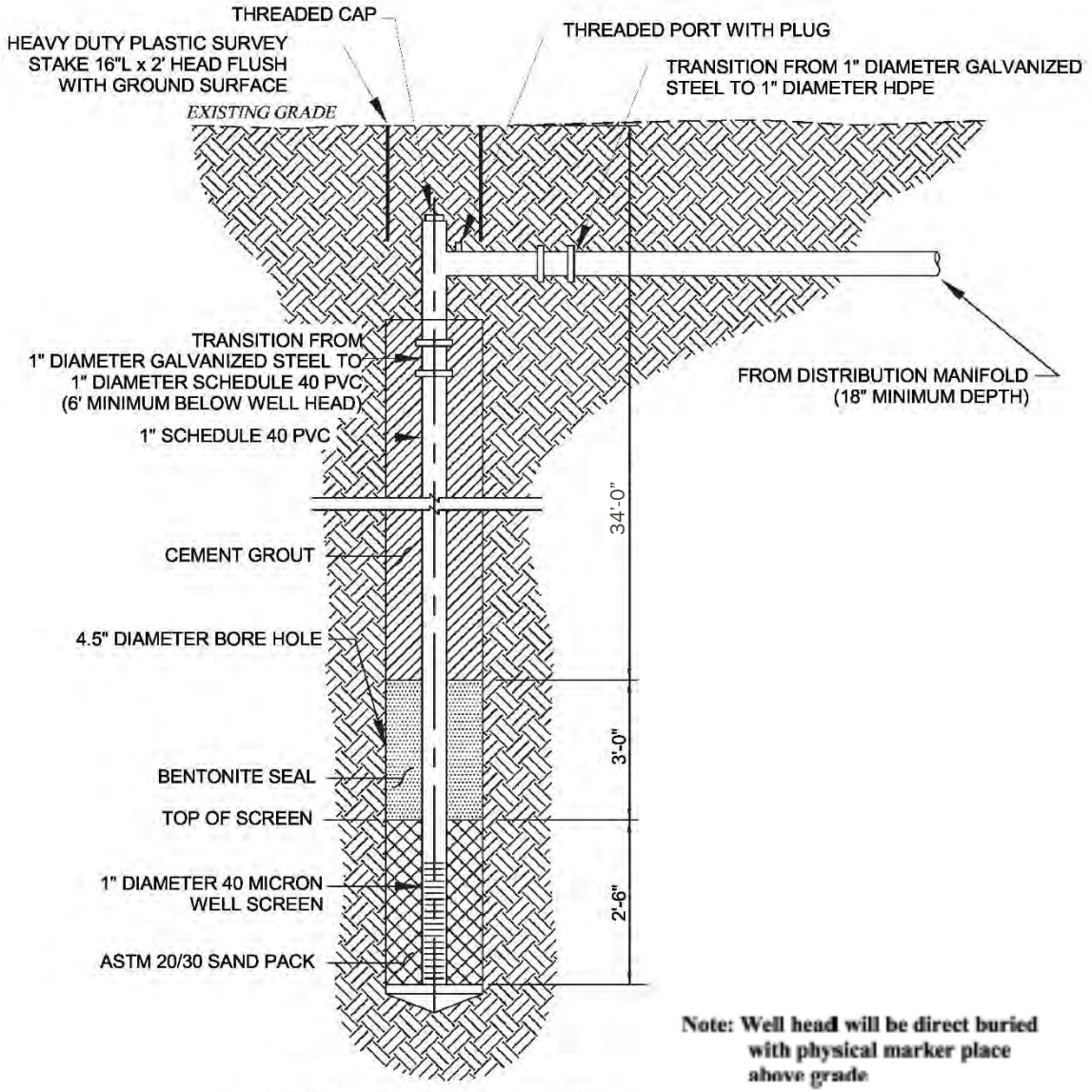
- Implement the Phase 3 expansion of the Hot Spot 6 Air Sparging IM based on this ADP and submission of the Implementation Work Plan to FDEP



Support Information

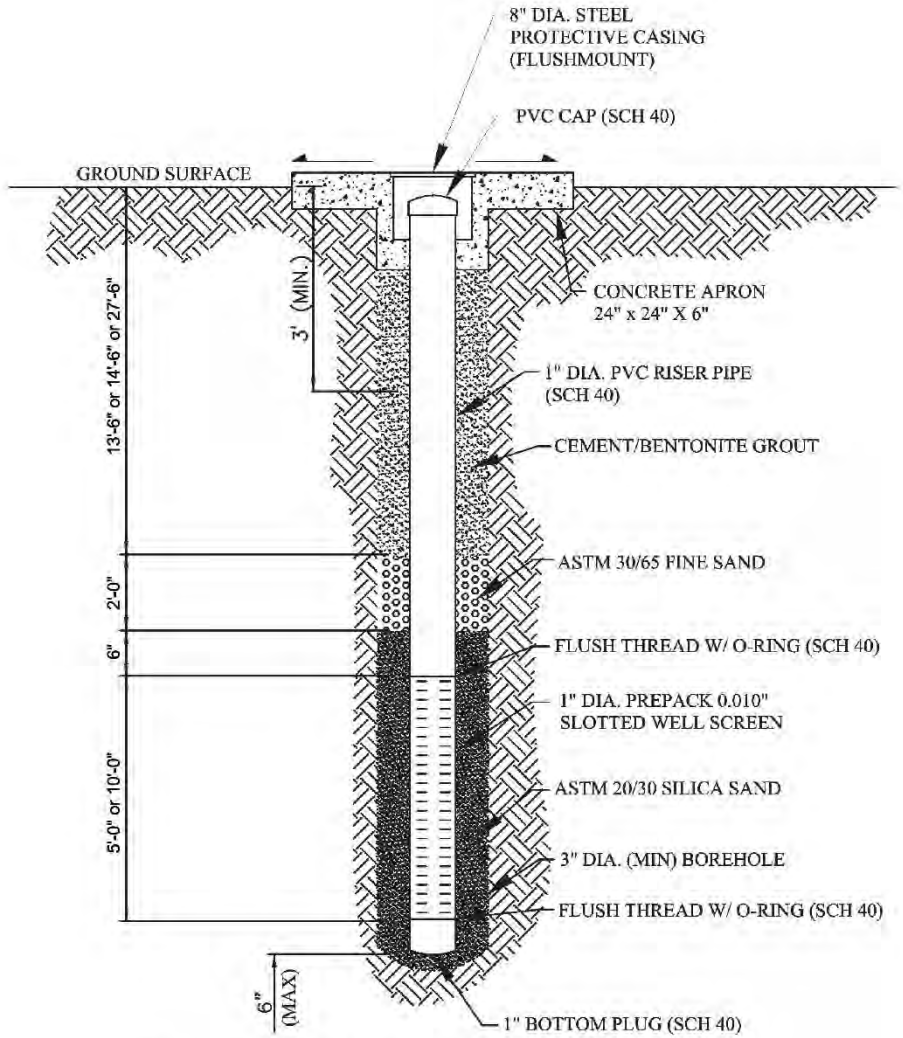
- Well Construction Details
- DPT Results Figure
- DPT Results Table

Well Construction Details



Note: Well head will be direct buried with physical marker place above grade

AIR SPARGE WELL DETAIL
NOT TO SCALE



GROUNDWATER MONITORING WELL DETAIL
NOT TO SCALE

Notes: 1) concrete apron shall be 3' by 3' by 4" and no more than 2" above grade
2) to prevent damage to the well pad three 3" diameter steel bollards will be placed around pad
3) bollards will be buried at least 3' deep and be at least 3' above grade

Legend

DPT location

Sample Location
TCE (Trichloroethene)
cDCE (cis-1,2-Dichloroethene)
tDCE (trans-1,2-Dichloroethene)
VC (Vinyl Chloride)
Sample Date
Concentration in ug/L,
Pink highlighting indicates greater than GCTL
Sample Interval (feet bls)

	GCTL
TCE	3
cDCE	70
tDCE	100
VC	1

50 0 50 Feet

DPT0986	TCE	cDCE	tDCE	VC	
8'	0.2 U	42	0.34 U	54	10/2023
13'	0.2 U	40	0.34 U	48	10/2023
18'	0.4 U	200	2	110	10/2023
25'	0.2 U	200	4.7	210	10/2023
34'	0.2 U	21	0.34 U	79	10/2023
38'	0.2 U	0.25 U	0.34 U	0.4 U	10/2023

DPT0924	TCE	cDCE	tDCE	VC	
8'	0.2 U	15	0.34 U	21	09/2023
13'	0.65 I	90	0.81 I	40	09/2023
18'	2 U	880	10	140	09/2023
25'	2 U	90	3.4 U	4 U	09/2023
34'	0.2 U	0.5 I	0.34 U	0.4 U	09/2023
38'	0.2 U	0.51 I	0.34 U	0.4 U	09/2023

DPT0964	TCE	cDCE	tDCE	VC	
8'	0.2 U	4.8	0.34 U	9.6	10/2023
13'	0.2 U	140	2.4	72	10/2023
18'	0.2 U	510	9.5	210	10/2023
25'	2 U	1900	53	480	10/2023
34'	0.2 U	79	0.34 U	0.97 I	10/2023
38'	0.2 U	0.63 I	0.34 U	0.4 U	10/2023

DPT0925	TCE	cDCE	tDCE	VC	
8'	0.2 U	13	0.34 U	14	09/2023
13'	0.2 U	72	0.89 I	48	09/2023
18'	2 U	870	6.1 I	240	09/2023
25'	0.4 U	140	0.68 U	6.1	09/2023
34'	0.2 U	0.37 I	0.34 U	0.4 U	09/2023
38'	0.2 U	0.47 I	0.34 U	0.4 U	09/2023

DPT0962	TCE	cDCE	tDCE	VC	
8'	0.2 U	2.7	0.34 U	1.9	10/2023
13'	0.2 U	12	0.34 U	10	10/2023
18'	0.2 U	94	1.7	48	10/2023
25'	1 U	710	8.7	610	10/2023
34'	5 U	360	8.5 U	2400	10/2023
38'	5 U	320	8.5 U	890	10/2023
38'	1 U	76	1.7 U	350	10/2023
43'	0.2 U	2.9	0.34 U	52	10/2023

DPT0926	TCE	cDCE	tDCE	VC	
8'	0.2 U	5.6	0.34 U	5.6	09/2023
13'	0.2 U	34	0.52 I	21	09/2023
18'	1 U	420	7.3	200	09/2023
25'	5 U	1300	8.5 U	130	09/2023
34'	0.2 U	53	0.34 U	8.8	09/2023
38'	0.2 U	0.33 I	0.34 U	0.4 U	09/2023

DPT0914	TCE	cDCE	tDCE	VC	
8'	0.2 U	13	0.34 U	50	09/2023
13'	0.2 U	31	0.34 U	110	09/2023
18'	0.2 U	33	0.34 U	130	09/2023
25'	0.2 U	540	6.7	460	09/2023
34'	0.2 U	0.25 U	0.34 U	0.4 U	09/2023
38'	0.2 U	0.25 U	0.34 U	0.4 U	09/2023

DPT0961	TCE	cDCE	tDCE	VC	
8'	0.2 U	2.3	0.34 U	7.8	10/2023
13'	0.2 U	10	0.34 U	26	10/2023
18'	0.2 U	180	6.1	480	10/2023
25'	2 U	960	8.1 I	350	10/2023
34'	1 U	3600	10	480	10/2023
38'	0.2 U	800	0.55 I	15	10/2023
38'	1 U	600	1.7 U	7.6	10/2023
43'	0.2 U	0.25 U	0.34 U	0.4 U	10/2023

DPT0927	TCE	cDCE	tDCE	VC	
8'	0.2 U	5.8	0.34 U	6.8	09/2023
13'	1 U	66	1.7 U	340	09/2023
18'	1 U	330	5.5	210	09/2023
25'	2 U	820	9.5 I	180	09/2023
34'	0.2 U	85	0.34 U	11	09/2023
38'	0.2 U	0.25 U	0.34 U	0.4 U	09/2023

DPT0915	TCE	cDCE	tDCE	VC	
8'	0.2 U	48	0.34 U	160	09/2023
13'	0.2 U	87	0.34 U	350	09/2023
18'	0.2 U	700	4.5	690	09/2023
25'	0.2 U	390	1.1	110	09/2023
34'	0.2 U	0.98 I	0.34 U	0.4 U	09/2023
38'	0.2 U	0.25 U	0.34 U	0.4 U	09/2023

DPT0960	TCE	cDCE	tDCE	VC	
8'	0.2 U	1.4	0.34 U	6.5	10/2023
13'	0.2 U	4.4	0.34 U	44	10/2023
18'	0.2 U	21	0.34 U	41	10/2023
25'	5 U	930	9.1 I	1800	10/2023
34'	0.2 U	1.6	2.5	3500 L	10/2023
38'	0.2 U	24	0.34 U	2600 L	10/2023
38'	5 U	6.3 U	8.5 U	2300	10/2023
43'	0.2 U	36	0.34 U	39	10/2023

DPT0993	TCE	cDCE	tDCE	VC	
8'	0.2 U	41	0.34 U	110	10/2023
13'	2 U	160	3.4 U	280	10/2023
18'	2 U	1100	8.8 I	540	10/2023
25'	2 U	1200	3.4 U	300	10/2023
34'	0.2 U	130	0.34 U	8.3	10/2023
38'	0.2 U	0.67 I	0.34 U	0.4 U	10/2023

DPT0928	TCE	cDCE	tDCE	VC	
8'	0.79 U	12	0.37 U	22	09/2023
13'	0.79 U	19	0.37 U	53	09/2023
18'	7.9 U	1100	9.9 I	660	09/2023
25'	0.79 U	1100	14	220	09/2023
34'	0.79 U	0.46 U	0.37 U	0.43 U	09/2023
38'	0.79 U	0.46 U	0.37 U	0.43 U	09/2023

DPT0963	TCE	cDCE	tDCE	VC	
8'	0.2 U	1.4	0.34 U	2	10/2023
13'	0.2 U	12	0.34 U	94	10/2023
18'	0.2 U	63	3.1	360	10/2023
25'	0.4 U	30	4.2	350	10/2023
34'	5 U	3100	15 I	3100	10/2023
38'	1 U	2500	1.7 I	53	10/2023
38'	5 U	1700	8.5 U	930	10/2023
43'	0.2 U	170	0.34 U	1.2	10/2023

DPT0991	TCE	cDCE	tDCE	VC	
8'	0.2 U	26	0.34 U	46	10/2023
13'	1 U	300	1.7 U	570	10/2023

DPT0916	TCE	cDCE	tDCE	VC	
8'	0.2 U	18	0.34 U	55	09/2023
13'	0.2 U	110	0.34 U	340	09/2023
18'	0.2 U	190	0.34 U	590	09/2023
25'	1 U	1200	27	740	09/2023
34'	0.2 U	15	0.34 U	7.5	09/2023
38'	0.2 U	1.2	0.34 U	0.4 U	09/2023

DPT0959	TCE	cDCE	tDCE	VC	
8'	0.2 U	10	0.34 U	11	10/2023
13'	0.2 U	24	0.34 U	35	10/2023
18'	0.4 U	40	0.68 U	65	10/2023
25'	0.4 U	350	3.6	360	10/2023
34'	5 U	1600	8.5 U	820	10/2023
38'	0.2 U	240	0.34 U	17	10/2023
38'	2 U	1200	3.4 U	200	10/2023
43'	0.2 U	7.7	0.34 U	0.4 I	10/2023

DPT0992	TCE	cDCE	tDCE	VC	
8'	0.2 U	0.25 U	0.34 U	1	10/2023
13'	1 U	140	1.7 U	470	10/2023
18'	5 U	1000	8.5 U	540	10/2023
25'	2 U	840	7.6 I	170	10/2023
34'	0.4 U	150	0.68 U	8.4	10/2023
38'	0.2 U	0.53 I	0.34 U	0.4 U	10/2023

DPT0929	TCE	cDCE	tDCE	VC	
8'	0.79 U	33	0.37 U	61	09/2023
13'	0.79 U	38	0.37 U	84	09/2023
18'	7.9 U	1600	10	820	09/2023
25'	7.9 U	1700	8 I	170	09/2023
34'	0.79 U	0.46 U	0.37 U	0.43 U	09/2023
38'	0.79 U	0.46 U	0.37 U	0.43 U	09/2023

DPT0965	TCE	cDCE	tDCE	VC	
8'	0.2 U	13	1.2	1.1	10/2023
13'	0.2 U	10	0.34 I	130	10/2023
18'	4 U	190	6.8 U	1200	10/2023
25'	13 I	130	24 I	3200	10/2023
34'	10 I	13 U	17 U	3200	10/2023
38'	4 U	160	6.8 U	1300	10/2023
38'	2 U	710	3.4 U	1900	10/2023
43'	0.2 U	190	0.34 U	36	10/2023

DPT0990	TCE	cDCE	tDCE	VC	
8'	0.2 U	8.2	0.34 U	74	10/2023
13'	5 U	1300	8.5 I	590	10/2023
18'	5 U	1600	11 I	290	10/2023
25'	1 U	630	1.7 U	60	10/2023
34'	0.2 U	1.4	0.34 U	0.4 U	10/2023
38'	0.2 U	0.88 I	0.34 U	0.4 U	10/2023

DPT0917	TCE	cDCE	tDCE	VC	
8'	0.2 U	44	0.34 U	130	09/2023
13'	0.2 U	300	0.34 U	830	09/2023
18'	0.2 U	770	4.2	1100	09/2023
25'	1 U	1400	17	790	09/2023
34'	0.2 U	36	0.34 U	15	09/2023
38'	0.2 U	0.7 I	0.34 U	0.4 U	09/2023

DPT0958	TCE	cDCE	tDCE	VC	
8'	0.2 U	19	0.34 U	10	10/2023
13'	0.2 U	19	0.34 U	50	10/2023
18'	0.2 U	44	0.34 U	96	10/2023
25'	1 U	480	4.9 I	690	10/2023
34'	5 U	120	8.5 U	3100	10/2023
38'	2 U	40	3.4 U	3500 L	10/2023
38'	2 U	43	3.4 U	1400	10/2023
43'	0.4 U	44	0.68 U	120	10/2023

DPT0923	TCE	cDCE	tDCE	VC	
8'	0.4 U	1.4 I	0.68 U	0.8 U	09/2023
13'	1 U	320	1.7 U	260	09/2023
18'	0.2 U	2200 L	9.4	670 L	09/2023
25'	0.2 U	1700 L	2.3	160	09/2023
34'	0.4 U	1.3 I	0.68 U	0.8 U	09/2023
38'	2 U	3.4 I	3.4 U	4 U	09/2023

DPT0930	TCE	cDCE	tDCE	VC	
8'	0.79 U	24	0.37 U	53	09/2023
13'	0.79 U	56	0.37 U	120	09/2023
18'	0.79 U	200	0.37 U	350	09/2023
25'	7.9 U	1200	19	260	09/2023
34'	0.79 U	3.2	0.37 U	5.5	09/2023
38'	0.79 U	0.49 I	0.37 U	0.43 U	09/2023

DPT0966	TCE	cDCE	tDCE	VC	
8'	0.42 I	0.37 I	0.34 U	0.4 U	10/2023
13'	0.2 U	1.7	0.34 U	27	10/2023
18'	0.2 U	3.8	0.34 U	14	10/2023
25'	4 U	52	6.9 I	890	10/2023
34'	0.4 U	8.5	19	4800	10/2023
38'	5 U	11 I	8.5 U	2400	10/2023
38'	2 U	3.5 I	3.4 U	1500	10/2023
43'	1 U	1.4 I	1.7 U	560	10/2023

DPT0989	TCE	cDCE	tDCE	VC	
8'	0.2 U	3.8	0.34 U	25	10/2023
13'	1.6 I	250	1.7 U	810	10/2023
18'	5 U	1700	21 I	690	10/2023
25'	1 U	640	1.7 U	37	10/2023
34'	0.2 U	0.72 I	0.34 U	0.4 U	10/2023
38'	0.2 U	0.25 U	0.34 U	0.4 U	10/2023

DPT0918	TCE	cDCE	tDCE	VC	
8'	0.2 U	8.1	0.34 U	38	09/2023
13'	0.2 U	460	0.9 I	1200	09/2023
18'	0.2 U	2300	87	2000	09/2023
25'	0.2 U	2300	53	1100	09/2023
34'	0.2 U	40	0.34 U	12	09/2023
38'	0.2 U	2.7	0.34 U	0.4 U	09/2023

DPT0957	TCE	cDCE	tDCE	VC	
8'	0.2 U	73	1.1	24	10/2023
13'	0.2 U	77	0.34 U	140	10/2023
18'	1 U	69	1.7 U	270	10/2023
25'	1 U	1700 L	34	1200 L	10/2023
34'	0.4 U	350	9.3	340	10/2023
38'	0.2 U	0.36 I	0.34 U	0.4 I	10/2023

DPT0922	TCE	cDCE	tDCE	VC	
8'	0.2 U	0.84 I	0.34 U	0.59 I	09/2023
13'	1 U	17	1.7 U	35	09/2023
18'	0.2 U	2200 L	39	1200 L	09/2023
25'	0.2 U	2300 L	28	1100 L	09/2023
34'	0.2 U	77	0.34 U	10	09/2023
38'	0.2 U	1.5	0.34 U	0.4 U	09/2023

DPT0931	TCE	cDCE	tDCE	VC	
8'	0.79 U	35	0.37 U	98	09/2023
13'	0.79 U	61	0.37 U	140	09/2023
18'	7.9 U	1300	13	440	09/2023
25'	20 U	3100	42	680	09/2023
34'	0.79 U	0.92 I	0.37 U	1.9 I	09/2023
38'	0.79 U	0.46 U	0.37 U	0.43 U	09/2023

DPT0967	TCE	cDCE	tDCE	VC	
8'	0.2 U	0.38 I	0.34 U	0.4 U	10/2023
13'	0.58 I	23	0.59 I	23	10/2023
18'	0.28 I	69	1.7	82	10/2023
25'	2 U	1400	26	1300	10/2023
34'	5 U	2700	12 I	760	10/2023
38'	1 U	490	1.7 U	14	10/2023
38'	0.68 I	190	0.68 U	6.4	10/2023
43'	0.2 U	2	0.34 U	0.4 U	10/2023

DPT0994	TCE	cDCE	tDCE	VC	
8'	200	91	3.9 I	2 U	10/2023
13'	83	66	0.68 U	10	10/2023
18'	0.68 I	2.4	0.34 U	42	10/2023
25'	2 U	9.6 I	10	1600	10/2023
34'	10 U	23 I	17 U	5700	10/2023
38'	10 I	15 I	17 U	4200	10/2023
38'	5 U	6.3 U	8.5 U	2700	10/2023
43'	1 U	1.3 I	1.7 U	370	10/2023

DPT0988	TCE	cDCE	tDCE	VC	
8'	0.41 I	0.52 I	0.71 I	1.6	10/2023
13'	0.4 U	66	0.68 U	250	10/2023
18'	5 U	3000	63	1900	10/2023
25'	2 U	1200	6.4 I	220	10/2023
34'	0.2 U	16	0.34 U	1.1	10/2023
38'	0.2 U	0.43 I	0.34 U	0.4 U	10/2023

DPT0919	TCE	cDCE	tDCE	VC	
8'	0.2 U	7.4	0.34 U	60	09/2023
13'	0.4 U	25	0.68 U	330	09/2023
18'	1 U	1700	53	2200	09/2023
25'	1 U	2100	79	2500	09/2023
34'	2 U	240	3.4 U	89	09/2023
38'	0.2 U	1.3	0.34 U	0.4 U	09/2023

DPT0956	TCE	cDCE	tDCE	VC	
8'	0.4 U	72	1.9 I	29	10/2023
13'	0.4 U	210	2.5	250	10/2023
18'	5 U	780	12 I	320	10/2023
25'	20 U	3500	71 I	1300	10/2023
34'	2 U	440	4.7 I	140	10/2023
38'	0.2 U	0.84 I	0.34 U	0.71 I	10/2023

DPT0995	TCE	cDCE	tDCE	VC	
8'	35	2.8	0.34 U	0.44 I	10/2023
13'	29	6.5	0.34 U	10	10/2023
18'	3.8 I	500	15	1400	10/2023
25'	27 I	4000	130	7000	10/2023
34'	10 U	250	24 I	6800	10/2023
38'	2 U	5.4 I	3.4 U	2300	10/2023
38'	4 U	19 I	6.8 U	2800	10/2023
43'	1 U	5.7	1.7 U	670	10/2023

DPT0921	TCE	cDCE	tDCE	VC	
8'	10 U	170	17 U	30 I	09/2023
13'	0.4 U	30	0.68 U	75	09/2023
18'	0.2 U	2300 L	97	2000 L	09/2023
25'	0.2 U	3700 L	110	1900 L	09/2023
34'	0.2 U	20	0.34 U	1.6	09/2023
38'	0.2 U	1.9	0.34 U	0.4 U	09/2023

DPT0932	TCE	cDCE	tDCE	VC	
8'	0.79 U	19	0.37 U	79	09/2023
13'	0.79 U	410	2.4	360	09/2023
18'	0.79 U	10000	210	1400	09/2023
25'	0.79 U	780	8.7	100	09/2023
34'	0.79 U	1.1	0.37 U	0.43 U	09/2023
38'	0.79 U	0.46 U	0.37 U	0.43 U	09/2023

DPT0968	TCE	cDCE	tDCE	VC	
8'	0.32 I	1.6	0.34 U	0.4 U	10/2023
13'	1.2	6.9	0.34 U	2.5	10/2023
18'	0.33 I	72	1.3	18	10/2023
25'	5 U	2300	39	1500	10/2023
34'	2 U	1300	3.4 U	150	10/2023
38'	0.2 U	48	0.34 U	2.9	10/2023

DPT0920	TCE	cDCE	tDCE	VC	
8'	0.2 U	0.36 I	0.34 U	8	09/2023
13'	3.6 I	170	3.4 U	220	09/2023
18'	10 U	2100	79	1200	09/2023
25'	1 U	5700 L	140	1400 L	09/2023
34'	2 U	170	3.4 U	53	09/2023
38'	0.2 U	2.3	0.34 U	3	09/2023

DPT0955	TCE	cDCE	tDCE	VC	
8'	0.2 U	73	1.1	160	10/2023
13'	1 U	340	1.7 I	470	10/2023
18'	10 U	2300	59	1900	10/2023
25'	100 U	23000	440 I	8000	10/2023
34'	50 U	8600	97 I	3100	10/2023
38'	0.2 U	3.4	0.34 U	1	10/2023

DPT0996	TCE	cDCE	tDCE	VC	
8'	6.6	2.3	0.34 U	1	10/2023
13'	8.7	3.6	0.34 U	2.2	10/2023
18'	5.1	3.9	0.34 U	1.3	10/2023
25'	0.2 U	33	1.3	3.3	10/2023
34'	0.2 U	160	21	180	10/2023
38'	10 U	5400	79	7200	10/2023
38'	5 U	5200	100	4000	10/2023
43'	20 U	14000	34 U	8300	10/2023

DPT0933	TCE	cDCE	tDCE	VC	
8'	0.79 U	0.46 U	0.37 U	23	09/2023
13'	0.79 U	34	0.37 U	100	09/2023
18'	0.79 U	7600	220	3100	09/2023
25'	0.79 U	850	8.8	170	09/2023
34'	0.79 U	2	0.46 I	0.43 U	09/2023
38'	0.79 U	0.46 U	0.37 U	0.43 U	09/2023

DPT0969	TCE	cDCE	tDCE	VC	
8'	0.2 U	8.1	0.34 U	9.1	10/2023
13'	0.2 U	19	0.34 U	27	10/2023
18'	0.2 U	78	0.34 U	130	10/2023
25'	10 U	3500	130	820	10/2023
34'	470	58000	2100	9600	10/2023
38'	50 I	21000	290	3700	10/2023
38'	20 U	13000	130	2300	10/2023
43'	0.2 U	0.84 I	0.34 U	0.4 U	10/2023

DPT0954	TCE	cDCE	tDCE	VC	
8'	0.2 U	19	0.34 U	150	10/2023
13'	2 U	220	5.6 I	960	10/2023
18'	20 U	5700	180	6000	10/2023
25'	2 U	500	3.8 I	270	10/2023
34'	0.2 U	0.57 I	0.34 U	0.4 U	10/2023
38'	0.2 U	0.26 I	0.34 U	0.4 U	10/2023

DPT1010	TCE	cDCE	tDCE	VC	
8'	0.53 I	0.69 I	0.34 U	0.5 I	10/2023
13'	0.2 U	0.99 I	0.34 U	2.9	10/2023
18'	0.2 U	2	0.34 U	3.6	10/2023
25'	0.2 U	4.7	0.34 U	12	10/2023
34'	0.2 U	22	0.98 I	87	10/2023
38'	40 U	20000	400	5100	10/2023

DPT0970	TCE	cDCE	tDCE	VC	
8'	0.2 UQ	14 Q	0.34 UQ	21 Q	10/2023
13'	0.2 UQ	72 Q	0.91 IQ	150 Q	10/2023
18'	0.2 UQ	8800 Q	200 Q	2200 Q	10/2023
25'	20 UQ	42000 Q	1700 Q	12000 Q	10/2023
34'	40 UQ	27000 Q	380 Q	8800 Q	10/2023
38'	16 IQ	2300 Q	17 UQ	20 UQ	10/2023
38'	1 U	460	1.7 U	77	10/2023
43'	0.2 U	0.25 U	0.34 U	0.4 U	10/2023

DPT0971	TCE	cDCE	tDCE	VC	
8'	0.2 UQ	3.9 Q	0.34 UQ	5.7 Q	10/2023
13'	0.2 U	7.2	0.34 U	47	10/2023
18'	1 UQ	400 Q	1.7 UQ	380 Q	10/2023
25'	50 UQ	29000 Q	500 Q	5800 Q	10/2023
34'	5 U	17 I	8.5 U	10 U	10/2023
38'	0.2 UQ	7.3 Q	0.34 UQ	1 Q	10/2023

DPT1009	TCE	cDCE	tDCE	VC	
8'	0.2 U	2.5	0.34 U	14	10/2023
13'	0.2 U	5.2	0.34 U	43	10/2023
18'	1 U	210	1.7 U	610	10/2023
25'	1 U	170	1.7 U	730	10/2023
34'	5 U	1900	97	3300	10/2023
38'	40 U	33000	560	8000	10/2023

DPT1014	TCE	cDCE	tDCE	VC	
8'	0.2 U	10	0.34 U	35	10/2023
13'	0.2 U	200	0.52 I	220	10/2023
18'	0.4 U	190	3.3	340	10/2023
25'	0.2 U	3.1	0.34 U	29	10/2023
34'	0.2 U	250	0.51 I	16	10/2023
38'	0.2 U	0.31 I	0.34 U	0.4 U	10/2023

DPT1016	TCE	cDCE	tDCE	VC	
8'	0.2 UQ	25 Q	0.34 UQ	35 Q	10/2023
13'	0.31 IQ	190 Q	2.7 Q	56 Q	10/2023
18'	1 UQ	380 Q	7.6 Q	150 Q	10/2023
25'	2 UQ	980 Q	4.9 IQ	68 Q	10/2023
34'	0.2 U	90	0.34 U	73	10/2023
38'	0.2 U	0.25 U	0.34 U	0.4 U	10/2023

DPT1017	TCE	cDCE	tDCE	VC	
8'	0.2 U	3.6	0.34 U	17	10/2023
13'	2.1	160	0.68 U	79	10/2023
18'	0.2 U	160	1.1	7.2	10/2023
25'	0.2 U	30	0.55 I	38	10/2023
34'	0.65 I	220	0.68 U	19	10/2023
38'	0.2 U	1.6	0.34 U	0.4 U	10/2023

DPT0985	TCE	cDCE	tDCE	VC	
8'	0.2 U	30	0.34 U	53	10/2023
13'	0.2 U	60	0.34 U	79	10/2023
18'	1 U	400	7.1	440	10/2023
25'	2 U	2.5 U	3.4 U	1500	10/2023
34'	0.2 U	16	0.34 U	79	10/2023
38'	0.2 U	0.25 U	0.34 U	0.4 U	10/2023

DPT1013	TCE	cDCE	tDCE	VC	
8'	0.2 U	11	0.34 U	38	10/2023
13'	0.2 U	93	0.34 U	170	10/2023
18'	0.2 U	100	0.75 I	150	10/2023
25'	0.2 U	0.42 I	0.34 U	4.1	10/2023
34'	0.2 U	2.8	0.34 U	59	10/2023
38'	0.2 U	0.25 U	0.34 U	0.4 U	10/2023

DPT0937	TCE	cDCE	tDCE	VC	
8'	0.79 U	28	0.37 U	58	09/2023
13'	0.79 U	320	0.37 U	310	09/2023
18'	0.79 U	700	42	2100	09/2023
25'	0.79 U	2.4	440	9500	09/2023
34'	4 U	4.3 I	1.8 U	420	09/2023
38'	0.79 U	0.46 U	0.37 U	0.43 U	09/2023

DPT1018	TCE	cDCE	tDCE	VC	
8'	0.2 U	4.9	0.34 U	22	10/2023
13'	0.2 U	25	0.34 U	60	10/2023
18'	0.2 UQ	1.5 Q	0.34 UQ	1.7 Q	10/2023
25'	0.2 U	4.6	0.34 U	61	10/2023
34'	0.2 U	3.1	0.34 U	11	10/2023
38'	0.2 U	0.25 U	0.34 U	0.4 U	10/2023

DPT0986	TCE	cDCE	tDCE	VC	
8'	0.2 U	42	0.34 U	54	10/2023
13'	0.2 U	40	0.34 U	48	10/2023
18'	0.4 U	200	2	110	10/2023
25'	0.2 U	200	4.7	210	10/2023
34'	0.2 U	21	0.34 U	79	10/2023
38'	0.2 U	0.25 U	0.34 U	0.4 U	10/2023

DPT1012	TCE	cDCE	tDCE	VC	

Location	Sample	Top Depth	Bottom Depth	Freon		cDCE		tDCE		TCE		VC		Units
LC34-DPT0914	LC34-DPT0914-008.0-20230918	6	10	0.23	U	13		0.34	U	0.20	U	50		UG/L
LC34-DPT0914	LC34-DPT0914-013.0-20230918	11	15	0.23	U	31		0.34	U	0.20	U	110		UG/L
LC34-DPT0914	LC34-DPT0914-018.0-20230918	16	20	0.23	U	33		0.34	U	0.20	U	130		UG/L
LC34-DPT0914	LC34-DPT0914-025.0-20230918	23	27	0.23	U	540		6.7		0.20	U	460		UG/L
LC34-DPT0914	LC34-DPT0914-034.0-20230918	32	36	0.23	U	0.25	U	0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT0914	LC34-DPT0914-038.0-20230918	36	40	0.23	U	0.25	U	0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT0915	LC34-DPT0915-008.0-20230918	6	10	0.23	U	48		0.34	U	0.20	U	160		UG/L
LC34-DPT0915	LC34-DPT0915-013.0-20230918	11	15	0.23	U	87		0.34	U	0.20	U	350		UG/L
LC34-DPT0915	LC34-DPT0915-018.0-20230918	16	20	0.23	U	700		4.5		0.20	U	690		UG/L
LC34-DPT0915	LC34-DPT0915-025.0-20230918	23	27	0.23	U	390		1.1		0.20	U	110		UG/L
LC34-DPT0915	LC34-DPT0915-034.0-20230918	32	36	0.23	U	0.98	J	0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT0915	LC34-DPT0915-038.0-20230918	36	40	0.23	U	0.25	U	0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT0916	LC34-DPT0916-008.0-20230918	6	10	0.23	U	18		0.34	U	0.20	U	55		UG/L
LC34-DPT0916	LC34-DPT0916-013.0-20230918	11	15	0.23	U	110		0.34	U	0.20	U	340		UG/L
LC34-DPT0916	LC34-DPT0916-018.0-20230918	16	20	0.23	U	190		0.34	U	0.20	U	590		UG/L
LC34-DPT0916	LC34-DPT0916-025.0-20230918	23	27	1.2	U	1200		27		1	U	740		UG/L
LC34-DPT0916	LC34-DPT0916-034.0-20230918	32	36	0.23	U	15		0.34	U	0.20	U	7.5		UG/L
LC34-DPT0916	LC34-DPT0916-038.0-20230918	36	40	0.23	U	1.2		0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT0917	LC34-DPT0917-008.0-20230919	6	10	0.23	U	44		0.34	U	0.20	U	130		UG/L
LC34-DPT0917	LC34-DPT0917-013.0-20230919	11	15	0.23	U	300		0.34	U	0.20	U	830		UG/L
LC34-DPT0917	LC34-DPT0917-018.0-20230919	16	20	0.23	U	770		4.2		0.20	U	1100		UG/L
LC34-DPT0917	LC34-DPT0917-025.0-20230919	23	27	1.2	U	1400		17		1	U	790		UG/L
LC34-DPT0917	LC34-DPT0917-034.0-20230919	32	36	0.23	U	36		0.34	U	0.20	U	15		UG/L
LC34-DPT0917	LC34-DPT0917-038.0-20230919	36	40	0.23	U	0.70	J	0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT0918	LC34-DPT0918-008.0-20230919	6	10	0.23	U	8.1		0.34	U	0.20	U	38		UG/L
LC34-DPT0918	LC34-DPT0918-013.0-20230919	11	15	0.23	U	460		0.90	J	0.20	U	1200		UG/L
LC34-DPT0918	LC34-DPT0918-018.0-20230919	16	20	0.23	U	2300		87		0.20	U	2000		UG/L
LC34-DPT0918	LC34-DPT0918-025.0-20230919	23	27	2.3	U	2300		53		2	U	1100		UG/L
LC34-DPT0918	LC34-DPT0918-034.0-20230919	32	36	0.23	U	40		0.34	U	0.20	U	12		UG/L
LC34-DPT0918	LC34-DPT0918-038.0-20230919	36	40	0.23	U	2.7		0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT0919	LC34-DPT0919-008.0-20230919	6	10	0.23	U	7.4		0.34	U	0.20	U	60		UG/L
LC34-DPT0919	LC34-DPT0919-013.0-20230919	11	15	0.46	U	25		0.68	U	0.40	U	330		UG/L
LC34-DPT0919	LC34-DPT0919-018.0-20230919	16	20	1.2	U	1700		53		1	U	2200		UG/L
LC34-DPT0919	LC34-DPT0919-025.0-20230919	23	27	1.2	U	2100		79		1	U	2500		UG/L
LC34-DPT0919	LC34-DPT0919-034.0-20230919	32	36	2.3	U	240		3.4	U	2	U	89		UG/L
LC34-DPT0919	LC34-DPT0919-038.0-20230919	36	40	0.23	U	1.3		0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT0920	LC34-DPT0920-008.0-20230919	6	10	0.23	U	0.36	J	0.34	U	0.20	U	8		UG/L
LC34-DPT0920	LC34-DPT0920-013.0-20230919	11	15	2.3	U	170		3.4	U	3.6	J	220		UG/L
LC34-DPT0920	LC34-DPT0920-018.0-20230919	16	20	12	U	2100		79		10	U	1200		UG/L
LC34-DPT0920	LC34-DPT0920-025.0-20230919	23	27	1.2	U	8200		140		1	U	2000		UG/L
LC34-DPT0920	LC34-DPT0920-034.0-20230919	32	36	2.3	U	170		3.4	U	2	U	53		UG/L
LC34-DPT0920	LC34-DPT0920-038.0-20230919	36	40	0.23	U	2.3		0.34	U	0.20	U	3		UG/L
LC34-DPT0921	LC34-DPT0921-008.0-20230920	6	10	12	U	170		17	U	10	U	30	J	UG/L
LC34-DPT0921	LC34-DPT0921-013.0-20230920	11	15	0.46	U	30		0.68	U	0.40	U	75		UG/L
LC34-DPT0921	LC34-DPT0921-018.0-20230920	16	20	0.23	U	2300	J	97		0.20	U	2000	J	UG/L
LC34-DPT0921	LC34-DPT0921-025.0-20230920	23	27	0.23	U	3700	J	110		0.20	U	1900	J	UG/L
LC34-DPT0921	LC34-DPT0921-034.0-20230920	32	36	0.23	U	20		0.34	U	0.20	U	1.6		UG/L
LC34-DPT0921	LC34-DPT0921-038.0-20230920	36	40	0.23	U	1.9		0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT0922	LC34-DPT0922-008.0-20230920	6	10	0.23	U	0.84	J	0.34	U	0.20	U	0.59	J	UG/L

Location	Sample	Top Depth	Bottom Depth	Freon		cDCE		tDCE		TCE		VC		Units
LC34-DPT0922	LC34-DPT0922-013.0-20230920	11	15	1.2	U	17		1.7	U	1	U	35		UG/L
LC34-DPT0922	LC34-DPT0922-018.0-20230920	16	20	0.23	U	2700		39		0.20	U	3300		UG/L
LC34-DPT0922	LC34-DPT0922-025.0-20230920	23	27	0.23	U	2200		28		0.20	U	860		UG/L
LC34-DPT0922	LC34-DPT0922-034.0-20230920	32	36	0.23	U	77		0.34	U	0.20	U	10		UG/L
LC34-DPT0922	LC34-DPT0922-038.0-20230920	36	40	0.23	U	1.5		0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT0923	LC34-DPT0923-008.0-20230920	6	10	0.46	U	1.4	J	0.68	U	0.40	U	0.80	U	UG/L
LC34-DPT0923	LC34-DPT0923-013.0-20230920	11	15	1.2	U	320		1.7	U	1	U	260		UG/L
LC34-DPT0923	LC34-DPT0923-018.0-20230920	16	20	0.23	U	2100		9.4		0.20	U	570		UG/L
LC34-DPT0923	LC34-DPT0923-025.0-20230920	23	27	0.23	U	1600		2.3		0.20	U	160		UG/L
LC34-DPT0923	LC34-DPT0923-034.0-20230920	32	36	0.46	U	1.3	J	0.68	U	0.40	U	0.80	U	UG/L
LC34-DPT0923	LC34-DPT0923-038.0-20230920	36	40	2.3	U	3.4	J	3.4	U	2	U	4	U	UG/L
LC34-DPT0924	LC34-DPT0924-008.0-20230920	6	10	0.23	U	15		0.34	U	0.20	U	21		UG/L
LC34-DPT0924	LC34-DPT0924-013.0-20230920	11	15	0.46	U	90		0.81	J	0.65	J	40		UG/L
LC34-DPT0924	LC34-DPT0924-018.0-20230920	16	20	2.3	U	880		10		2	U	140		UG/L
LC34-DPT0924	LC34-DPT0924-025.0-20230920	23	27	2.3	U	90		3.4	U	2	U	4	U	UG/L
LC34-DPT0924	LC34-DPT0924-034.0-20230920	32	36	0.23	U	0.50	J	0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT0924	LC34-DPT0924-038.0-20230920	36	40	0.23	U	0.51	J	0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT0925	LC34-DPT0925-008.0-20230921	6	10	0.23	U	13		0.34	U	0.20	U	14		UG/L
LC34-DPT0925	LC34-DPT0925-013.0-20230921	11	15	0.23	U	72		0.89	J	0.20	U	48		UG/L
LC34-DPT0925	LC34-DPT0925-018.0-20230921	16	20	2.3	U	870		6.1	J	2	U	240		UG/L
LC34-DPT0925	LC34-DPT0925-025.0-20230921	23	27	0.46	U	140		0.68	U	0.40	U	6.1		UG/L
LC34-DPT0925	LC34-DPT0925-034.0-20230921	32	36	0.23	U	0.37	J	0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT0925	LC34-DPT0925-038.0-20230921	36	40	0.23	U	0.47	J	0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT0926	LC34-DPT0926-008.0-20230921	6	10	0.23	U	5.6		0.34	U	0.20	U	5.6		UG/L
LC34-DPT0926	LC34-DPT0926-013.0-20230921	11	15	0.23	U	34		0.52	J	0.20	U	21		UG/L
LC34-DPT0926	LC34-DPT0926-018.0-20230921	16	20	1.2	U	420		7.3		1	U	200		UG/L
LC34-DPT0926	LC34-DPT0926-025.0-20230921	23	27	5.8	U	1300		8.5	U	5	U	130		UG/L
LC34-DPT0926	LC34-DPT0926-034.0-20230921	32	36	0.23	U	53		0.34	U	0.20	U	8.8		UG/L
LC34-DPT0926	LC34-DPT0926-038.0-20230921	36	40	0.23	U	0.33	J	0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT0927	LC34-DPT0927-008.0-20230921	6	10	0.23	U	5.8		0.34	U	0.20	U	6.8		UG/L
LC34-DPT0927	LC34-DPT0927-013.0-20230921	11	15	1.2	U	66		1.7	U	1	U	340		UG/L
LC34-DPT0927	LC34-DPT0927-018.0-20230921	16	20	1.2	U	330		5.5		1	U	210		UG/L
LC34-DPT0927	LC34-DPT0927-025.0-20230921	23	27	2.3	U	820		9.5	J	2	U	180		UG/L
LC34-DPT0927	LC34-DPT0927-034.0-20230921	32	36	0.23	U	85		0.34	U	0.20	U	11		UG/L
LC34-DPT0927	LC34-DPT0927-038.0-20230921	36	40	0.23	U	0.25	U	0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT0928	LC34-DPT0928-0008.0-20230921	6	10	1.1	U	12		0.37	U	0.79	U	22		UG/L
LC34-DPT0928	LC34-DPT0928-013.0-20230921	11	15	1.1	U	19		0.37	U	0.79	U	53		UG/L
LC34-DPT0928	LC34-DPT0928-018.0-20230921	16	20	11	U	1100		9.9	J	7.9	U	660		UG/L
LC34-DPT0928	LC34-DPT0928-025.0-20230921	23	27	1.1	U	1100		14		0.79	U	220		UG/L
LC34-DPT0928	LC34-DPT0928-034.0-20230921	32	36	1.1	U	0.46	U	0.37	U	0.79	U	0.43	U	UG/L
LC34-DPT0928	LC34-DPT0928-038.0-20230921	36	40	1.1	U	0.46	U	0.37	U	0.79	U	0.43	U	UG/L
LC34-DPT0929	LC34-DPT0929-008.0-20230922	6	10	1.1	U	33		0.37	U	0.79	U	61		UG/L
LC34-DPT0929	LC34-DPT0929-013.0-20230922	11	15	1.1	U	38		0.37	U	0.79	U	84		UG/L
LC34-DPT0929	LC34-DPT0929-018.0-20230922	16	20	11	U	1600		10		7.9	U	820		UG/L
LC34-DPT0929	LC34-DPT0929-025.0-20230922	23	27	11	U	1700		8	J	7.9	U	170		UG/L
LC34-DPT0929	LC34-DPT0929-034.0-20230922	32	36	1.1	U	0.46	U	0.37	U	0.79	U	0.43	U	UG/L
LC34-DPT0929	LC34-DPT0929-038.0-20230922	36	40	1.1	U	0.46	U	0.37	U	0.79	U	0.43	U	UG/L
LC34-DPT0930	LC34-DPT0930-008.0-20230922	6	10	1.1	U	24		0.37	U	0.79	U	53		UG/L
LC34-DPT0930	LC34-DPT0930-013.0-20230922	11	15	1.1	U	56		0.37	U	0.79	U	120		UG/L

Location	Sample	Top Depth	Bottom Depth	Freon		cDCE		tDCE		TCE		VC		Units
LC34-DPT0930	LC34-DPT0930-018.0-20230922	16	20	1.1	U	200		0.37	U	0.79	U	350		UG/L
LC34-DPT0930	LC34-DPT0930-025.0-20230922	23	27	11	U	1200		19		7.9	U	260		UG/L
LC34-DPT0930	LC34-DPT0930-034.0-20230922	32	36	1.1	U	3.2		0.37	U	0.79	U	5.5		UG/L
LC34-DPT0930	LC34-DPT0930-038.0-20230922	36	40	1.1	U	0.49	J	0.37	U	0.79	U	0.43	U	UG/L
LC34-DPT0931	LC34-DPT0931-008.0-20230922	6	10	1.1	U	35		0.37	U	0.79	U	98		UG/L
LC34-DPT0931	LC34-DPT0931-013.0-20230922	11	15	1.1	U	61		0.37	U	0.79	U	140		UG/L
LC34-DPT0931	LC34-DPT0931-018.0-20230922	16	20	11	U	1300		13		7.9	U	440		UG/L
LC34-DPT0931	LC34-DPT0931-025.0-20230922	23	27	28	U	3100		42		20	U	680		UG/L
LC34-DPT0931	LC34-DPT0931-034.0-20230922	32	36	1.1	U	0.92	J	0.37	U	0.79	U	1.9	J	UG/L
LC34-DPT0931	LC34-DPT0931-038.0-20230922	36	40	1.1	U	0.46	U	0.37	U	0.79	U	0.43	U	UG/L
LC34-DPT0932	LC34-DPT0932-008.0-20230925	6	10	1.1	U	19		0.37	U	0.79	U	79		UG/L
LC34-DPT0932	LC34-DPT0932-013.0-20230925	11	15	1.1	U	410		2.4		0.79	U	360		UG/L
LC34-DPT0932	LC34-DPT0932-018.0-20230925	16	20	1.1	U	10000		210		0.79	U	1400		UG/L
LC34-DPT0932	LC34-DPT0932-025.0-20230925	23	27	1.1	U	780		8.7		0.79	U	100		UG/L
LC34-DPT0932	LC34-DPT0932-034.0-20230925	32	36	1.1	U	1.1		0.37	U	0.79	U	0.43	U	UG/L
LC34-DPT0932	LC34-DPT0932-038.0-20230925	36	40	1.1	U	0.46	U	0.37	U	0.79	U	0.43	U	UG/L
LC34-DPT0933	LC34-DPT0933-008.0-20230925	6	10	1.1	U	0.46	U	0.37	U	0.79	U	23		UG/L
LC34-DPT0933	LC34-DPT0933-013.0-20230925	11	15	1.1	U	34		0.37	U	0.79	U	100		UG/L
LC34-DPT0933	LC34-DPT0933-018.0-20230925	16	20	1.1	U	7600		220		0.79	U	3100		UG/L
LC34-DPT0933	LC34-DPT0933-025.0-20230925	23	27	1.1	U	850		8.8		0.79	U	170		UG/L
LC34-DPT0933	LC34-DPT0933-034.0-20230925	32	36	1.1	U	2		0.46	J	0.79	U	0.43	U	UG/L
LC34-DPT0933	LC34-DPT0933-038.0-20230925	36	40	1.1	U	0.46	U	0.37	U	0.79	U	0.43	U	UG/L
LC34-DPT0934	LC34-DPT0934-008.0-20230925	6	10	1.1	U	40		0.37	U	0.79	U	55		UG/L
LC34-DPT0934	LC34-DPT0934-013.0-20230925	11	15	1.1	U	63		0.37	U	0.79	U	97		UG/L
LC34-DPT0934	LC34-DPT0934-018.0-20230925	16	20	1.1	U	95		0.47	J	0.79	U	120		UG/L
LC34-DPT0934	LC34-DPT0934-025.0-20230925	23	27	1.1	U	63		1.5		0.79	U	51		UG/L
LC34-DPT0934	LC34-DPT0934-034.0-20230925	32	36	1.1	U	5.1		0.37	U	0.79	U	13		UG/L
LC34-DPT0934	LC34-DPT0934-038.0-20230925	36	40	1.1	U	0.46	U	0.37	U	0.79	U	0.43	U	UG/L
LC34-DPT0935	LC34-DPT0935-008.0-20230926	6	10	1.1	U	19		0.37	U	0.79	U	25		UG/L
LC34-DPT0935	LC34-DPT0935-013.0-20230926	11	15	1.1	U	29		0.37	U	0.79	U	44		UG/L
LC34-DPT0935	LC34-DPT0935-018.0-20230926	16	20	1.1	U	97		0.37	U	0.79	U	83		UG/L
LC34-DPT0935	LC34-DPT0935-025.0-20230926	23	27	1.1	U	80		1.3		0.79	U	73		UG/L
LC34-DPT0935	LC34-DPT0935-034.0-20230926	32	36	1.1	U	66		0.79	J	0.79	U	74		UG/L
LC34-DPT0935	LC34-DPT0935-038.0-20230926	36	40	1.1	U	9.4		0.37	U	0.79	U	4.6		UG/L
LC34-DPT0936	LC34-DPT0936-008.0-20230926	6	10	1.1	U	23		0.37	U	0.79	U	38		UG/L
LC34-DPT0936	LC34-DPT0936-013.0-20230926	11	15	1.1	U	210		1.2		0.79	U	170		UG/L
LC34-DPT0936	LC34-DPT0936-018.0-20230926	16	20	1.1	U	1000		30		0.79	U	1100		UG/L
LC34-DPT0936	LC34-DPT0936-025.0-20230926	23	27	1.1	U	35		17		0.79	U	5200		UG/L
LC34-DPT0936	LC34-DPT0936-034.0-20230926	32	36	1.1	U	4.3		0.37	U	0.79	U	82		UG/L
LC34-DPT0936	LC34-DPT0936-038.0-20230926	36	40	1.1	U	0.46	U	0.37	U	0.79	U	2.4		UG/L
LC34-DPT0937	LC34-DPT0937-008.0-20230926	6	10	1.1	U	28		0.37	U	0.79	U	58		UG/L
LC34-DPT0937	LC34-DPT0937-013.0-20230926	11	15	1.1	U	320		0.37	U	0.79	U	310		UG/L
LC34-DPT0937	LC34-DPT0937-018.0-20230926	16	20	1.1	U	700		42		0.79	U	2100		UG/L
LC34-DPT0937	LC34-DPT0937-025.0-20230926	23	27	1.1	U	2.4		440		0.79	U	9500		UG/L
LC34-DPT0937	LC34-DPT0937-034.0-20230926	32	36	5.6	U	4.3	J	1.8	U	4	U	420		UG/L
LC34-DPT0937	LC34-DPT0937-038.0-20230926	36	40	1.1	U	0.46	U	0.37	U	0.79	U	0.43	U	UG/L
LC34-DPT0938	LC34-DPT0938-008.0-20230926	6	10	0.23	U	38		0.34	U	0.20	U	45		UG/L
LC34-DPT0938	LC34-DPT0938-013.0-20230926	11	15	0.23	U	24		0.34	U	0.20	U	38		UG/L
LC34-DPT0938	LC34-DPT0938-018.0-20230926	16	20	1.2	U	90		1.9	J	1	U	620		UG/L

Location	Sample	Top Depth	Bottom Depth	Freon		cDCE		tDCE		TCE		VC		Units
LC34-DPT0938	LC34-DPT0938-025.0-20230926	23	27	12	U	15	J	25	J	10	U	4800		UG/L
LC34-DPT0938	LC34-DPT0938-034.0-20230926	32	36	0.23	U	22		0.34	U	0.20	U	33		UG/L
LC34-DPT0938	LC34-DPT0938-038.0-20230926	36	40	0.23	U	0.25	U	0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT0939	LC34-DPT0939-008.0-20230926	6	10	2.3	U	390		3.4	U	2	U	1200		UG/L
LC34-DPT0939	LC34-DPT0939-013.0-20230926	11	15	1.2	U	260		1.7	U	1	U	570		UG/L
LC34-DPT0939	LC34-DPT0939-018.0-20230926	16	20	2.3	U	1200		34		2	U	900		UG/L
LC34-DPT0939	LC34-DPT0939-025.0-20230926	23	27	4.6	U	32		110		4	U	3700		UG/L
LC34-DPT0939	LC34-DPT0939-034.0-20230926	32	36	0.46	U	20		3.2		0.40	U	180		UG/L
LC34-DPT0939	LC34-DPT0939-038.0-20230926	36	40	0.23	U	0.25	U	0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT0940	LC34-DPT0940-008.0-20230927	6	10	0.23	U	0.72	J	0.34	U	0.20	U	2		UG/L
LC34-DPT0940	LC34-DPT0940-013.0-20230927	11	15	0.23	U	1.3		0.34	U	0.20	U	4.9		UG/L
LC34-DPT0940	LC34-DPT0940-018.0-20230927	16	20	0.23	U	2.4		0.34	U	0.20	U	3.5		UG/L
LC34-DPT0940	LC34-DPT0940-025.0-20230927	23	27	0.23	U	5.7		0.34	U	0.20	U	4.1		UG/L
LC34-DPT0940	LC34-DPT0940-034.0-20230927	32	36	0.23	U	0.25	U	0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT0940	LC34-DPT0940-038.0-20230927	36	40	0.23	U	0.25	U	0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT0941	LC34-DPT0941-008.0-20230927	6	10	0.23	U	9.5		0.34	U	0.20	U	13		UG/L
LC34-DPT0941	LC34-DPT0941-013.0-20230927	11	15	0.46	U	7.1		0.68	U	0.40	U	290		UG/L
LC34-DPT0941	LC34-DPT0941-018.0-20230927	16	20	2.3	U	2.5	U	4.3	J	2	U	1100		UG/L
LC34-DPT0941	LC34-DPT0941-025.0-20230927	23	27	2.3	U	2.5	U	3.4	U	2	U	1000		UG/L
LC34-DPT0941	LC34-DPT0941-034.0-20230927	32	36	0.23	U	2.5		0.34	U	0.20	U	1.8		UG/L
LC34-DPT0941	LC34-DPT0941-038.0-20230927	36	40	0.23	U	0.25	U	0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT0942	LC34-DPT0942-008.0-20230927	6	10	0.23	U	8.2		0.34	U	0.20	U	13		UG/L
LC34-DPT0942	LC34-DPT0942-013.0-20230927	11	15	0.23	U	13		0.34	U	0.20	U	24		UG/L
LC34-DPT0942	LC34-DPT0942-018.0-20230927	16	20	0.23	U	11		0.34	U	0.20	U	16		UG/L
LC34-DPT0942	LC34-DPT0942-025.0-20230927	23	27	4.6	U	5	U	93		4	U	1200		UG/L
LC34-DPT0942	LC34-DPT0942-034.0-20230927	32	36	0.23	U	2.9		0.34	U	0.20	U	16		UG/L
LC34-DPT0942	LC34-DPT0942-038.0-20230927	36	40	0.23	U	0.25	U	0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT0943	LC34-DPT0943-008.0-20230927	6	10	0.23	U	4.8		0.74	J	0.20	U	7.6		UG/L
LC34-DPT0943	LC34-DPT0943-013.0-20230927	11	15	0.23	U	21		0.34	U	0.20	U	31		UG/L
LC34-DPT0943	LC34-DPT0943-018.0-20230927	16	20	0.23	U	7.2		0.34	U	0.20	U	16		UG/L
LC34-DPT0943	LC34-DPT0943-025.0-20230927	23	27	0.23	U	10		1.1		0.20	U	41		UG/L
LC34-DPT0943	LC34-DPT0943-034.0-20230928	32	36	2.3	U	5.3	J	60		2	U	1200		UG/L
LC34-DPT0943	LC34-DPT0943-038.0-20230928	36	40	0.23	U	21		0.34	U	0.20	U	12		UG/L
LC34-DPT0943	LC34-DPT0943-043.0-20231026	41	45	0.23	U	0.25	U	0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT0943	LC34-DPT0943-38.0-20231026	36	40	0.23	U	110		2.3		0.20	U	68		UG/L
LC34-DPT0944	LC34-DPT0944-008.0-20230928	6	10	0.23	U	20		0.34	U	0.20	U	28		UG/L
LC34-DPT0944	LC34-DPT0944-013.0-20230928	11	15	0.23	U	180		1.9		0.20	U	170		UG/L
LC34-DPT0944	LC34-DPT0944-018.0-20230928	16	20	1.2	U	360		2.1	J	1	U	230		UG/L
LC34-DPT0944	LC34-DPT0944-025.0-20230928	23	27	0.23	U	11		0.96	J	0.20	U	31		UG/L
LC34-DPT0944	LC34-DPT0944-034.0-20230928	32	36	2.3	U	7.9	J	27		2	U	900		UG/L
LC34-DPT0944	LC34-DPT0944-038.0-20230928	36	40	0.23	U	37		0.34	U	0.20	U	18		UG/L
LC34-DPT0944	LC34-DPT0944-038.0-20231026	36	40	0.23	U	26		0.34	U	0.20	U	23		UG/L
LC34-DPT0944	LC34-DPT0944-043.0-20231026	41	45	0.23	U	0.25	U	0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT0945	LC34-DPT0945-008.0-20230928	6	10	0.23	U	23		0.34	U	0.20	U	36		UG/L
LC34-DPT0945	LC34-DPT0945-013.0-20230928	11	15	0.23	U	26		0.34	U	0.20	U	43		UG/L
LC34-DPT0945	LC34-DPT0945-018.0-20230928	16	20	0.23	U	79		0.34	U	0.20	U	88		UG/L
LC34-DPT0945	LC34-DPT0945-025.0-20230928	23	27	0.23	U	16		0.38	J	0.20	U	23		UG/L
LC34-DPT0945	LC34-DPT0945-034.0-20230928	32	36	0.23	U	7.5		15		0.20	U	17		UG/L
LC34-DPT0945	LC34-DPT0945-038.0-20230928	36	40	0.23	U	0.55	J	0.34	U	0.20	U	0.40	U	UG/L

Location	Sample	Top Depth	Bottom Depth	Freon		cDCE		tDCE		TCE		VC		Units
LC34-DPT0946	LC34-DPT0946-008.0-20230928	6	10	0.23	U	16		0.34	U	0.20	U	32		UG/L
LC34-DPT0946	LC34-DPT0946-013.0-20230928	11	15	0.23	U	16		0.34	U	0.20	U	48		UG/L
LC34-DPT0946	LC34-DPT0946-018.0-20230928	16	20	0.23	U	60		0.86	J	0.20	U	96		UG/L
LC34-DPT0946	LC34-DPT0946-025.0-20230928	23	27	0.23	U	3.9		0.34	U	0.20	U	5.7		UG/L
LC34-DPT0946	LC34-DPT0946-034.0-20230928	32	36	0.23	U	120		10		0.20	U	200		UG/L
LC34-DPT0946	LC34-DPT0946-038.0-20230928	36	40	0.23	U	67		0.59	J	0.20	U	17		UG/L
LC34-DPT0946	LC34-DPT0946-038.0-20231027	36	40	0.23	U	10		0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT0946	LC34-DPT0946-043.0-20231027	41	45	0.23	U	0.25	U	0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT0947	LC34-DPT0947-008.0-20230928	6	10	0.23	U	26		0.56	J	0.20	U	38		UG/L
LC34-DPT0947	LC34-DPT0947-013.0-20230928	11	15	0.23	U	36		0.47	J	0.20	U	54		UG/L
LC34-DPT0947	LC34-DPT0947-018.0-20230928	16	20	0.23	U	120		0.47	J	0.20	U	130		UG/L
LC34-DPT0947	LC34-DPT0947-025.0-20230928	23	27	0.46	U	190		3		0.40	U	89		UG/L
LC34-DPT0947	LC34-DPT0947-034.0-20230928	32	36	0.23	U	0.35	J	0.34	U	0.20	U	2.6		UG/L
LC34-DPT0947	LC34-DPT0947-038.0-20230928	36	40	0.23	U	0.25	U	0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT0948	LC34-DPT0948-008.0-20230929	6	10	0.23	U	24		0.41	J	0.20	U	42		UG/L
LC34-DPT0948	LC34-DPT0948-013.0-20230929	11	15	0.23	U	53		0.34	U	0.20	U	71		UG/L
LC34-DPT0948	LC34-DPT0948-018.0-20230929	16	20	1.2	U	300		2.3	J	1	U	140		UG/L
LC34-DPT0948	LC34-DPT0948-025.0-20230929	23	27	0.23	U	170		6.3		0.20	U	570		UG/L
LC34-DPT0948	LC34-DPT0948-034.0-20230929	32	36	0.23	U	30		0.42	J	0.20	U	33		UG/L
LC34-DPT0948	LC34-DPT0948-038.0-20230929	36	40	0.23	U	5.3		0.34	U	0.20	U	0.76	J	UG/L
LC34-DPT0949	LC34-DPT0949-008.0-20230929	6	10	0.23	U	0.25	U	0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT0949	LC34-DPT0949-013.0-20230929	11	15	0.23	U	29		0.34	U	0.20	U	47		UG/L
LC34-DPT0949	LC34-DPT0949-018.0-20230929	16	20	1.2	U	490		3.8	J	1	U	260		UG/L
LC34-DPT0949	LC34-DPT0949-025.0-20230929	23	27	5.8	U	1100		46		5	U	2700		UG/L
LC34-DPT0949	LC34-DPT0949-034.0-20230929	32	36	0.46	U	0.50	U	47		0.40	U	600		UG/L
LC34-DPT0949	LC34-DPT0949-038.0-20230929	36	40	0.23	U	0.25	U	13		0.20	U	36		UG/L
LC34-DPT0949	LC34-DPT0949-038.0-20231026	36	40	0.23	U	0.25	U	0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT0949	LC34-DPT0949-043.0-20231026	41	45	0.23	U	0.25	U	0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT0950	LC34-DPT0950-008.0-20230929	6	10	0.23	U	84		0.34	U	0.20	U	130		UG/L
LC34-DPT0950	LC34-DPT0950-013.0-20230929	11	15	0.23	U	150		0.45	J	0.20	U	130		UG/L
LC34-DPT0950	LC34-DPT0950-018.0-20230929	16	20	1.2	U	300		2.4	J	1	U	170		UG/L
LC34-DPT0950	LC34-DPT0950-025.0-20230929	23	27	0.23	U	2.6		150		0.20	U	460		UG/L
LC34-DPT0950	LC34-DPT0950-034.0-20230929	32	36	1.2	U	4.7	J	37		1	U	660		UG/L
LC34-DPT0950	LC34-DPT0950-038.0-20230929	36	40	0.23	U	0.34	J	0.34	U	0.20	U	0.83	J	UG/L
LC34-DPT0951	LC34-DPT0951-008.0-20231002	6	10	0.23	U	53		0.42	J	0.20	U	86		UG/L
LC34-DPT0951	LC34-DPT0951-013.0-20231002	11	15	0.23	U	56		0.37	J	0.20	U	120		UG/L
LC34-DPT0951	LC34-DPT0951-018.0-20231002	16	20	0.23	U	83		0.55	J	0.20	U	140		UG/L
LC34-DPT0951	LC34-DPT0951-025.0-20231002	23	27	0.23	U	5.9		0.34	U	0.20	U	55		UG/L
LC34-DPT0951	LC34-DPT0951-034.0-20231002	32	36	2.3	U	5.1	J	36		2	U	890		UG/L
LC34-DPT0951	LC34-DPT0951-038.0-20231002	36	40	0.23	U	0.25	U	0.34	U	0.20	U	2.7		UG/L
LC34-DPT0952	LC34-DPT0952-008.0-20231002	6	10	0.23	U	44		0.36	J	0.20	U	74		UG/L
LC34-DPT0952	LC34-DPT0952-013.0-20231002	11	15	0.23	U	38		0.34	U	0.20	U	60		UG/L
LC34-DPT0952	LC34-DPT0952-018.0-20231002	16	20	0.23	U	37		0.34	U	0.20	U	77		UG/L
LC34-DPT0952	LC34-DPT0952-025.0-20231002	23	27	0.46	U	5.5		0.68	U	0.40	U	170		UG/L
LC34-DPT0952	LC34-DPT0952-034.0-20231002	32	36	5.8	U	6.3	J	37		5	U	3500		UG/L
LC34-DPT0952	LC34-DPT0952-038.0-20231002	36	40	0.23	U	0.27	J	0.34	U	0.20	U	13		UG/L
LC34-DPT0952	LC34-DPT0952-038.0-20231026	36	40	0.23	U	0.34	J	0.34	U	0.20	U	18		UG/L
LC34-DPT0952	LC34-DPT0952-043.0-20231026	41	45	0.23	U	0.25	U	0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT0953	LC34-DPT0953-008.0-20231002	6	10	0.23	U	21		0.34	U	0.20	U	54		UG/L

Location	Sample	Top Depth	Bottom Depth	Freon		cDCE		tDCE		TCE		VC		Units
LC34-DPT0953	LC34-DPT0953-013.0-20231002	11	15	0.23	U	17		0.34	U	0.20	U	44		UG/L
LC34-DPT0953	LC34-DPT0953-018.0-20231002	16	20	0.23	U	51		0.34	U	0.20	U	72		UG/L
LC34-DPT0953	LC34-DPT0953-025.0-20231002	23	27	12	U	18	J	29	J	10	U	3700		UG/L
LC34-DPT0953	LC34-DPT0953-034.0-20231002	32	36	5.8	U	35		8.5	U	5	U	2500		UG/L
LC34-DPT0953	LC34-DPT0953-038.0-20231002	36	40	0.23	U	0.88	J	0.34	U	0.20	U	1.1		UG/L
LC34-DPT0954	LC34-DPT0954-008.0-20231003	6	10	0.23	U	19		0.34	U	0.20	U	150		UG/L
LC34-DPT0954	LC34-DPT0954-013.0-20231003	11	15	2.3	U	220		5.6	J	2	U	960		UG/L
LC34-DPT0954	LC34-DPT0954-018.0-20231003	16	20	23	U	5700		180		20	U	6000		UG/L
LC34-DPT0954	LC34-DPT0954-025.0-20231003	23	27	2.3	U	500		3.8	J	2	U	270		UG/L
LC34-DPT0954	LC34-DPT0954-034.0-20231003	32	36	0.23	U	0.57	J	0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT0954	LC34-DPT0954-038.0-20231003	36	40	0.23	U	0.26	J	0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT0955	LC34-DPT0955-008.0-20231003	6	10	0.23	U	73		1.1		0.20	U	160		UG/L
LC34-DPT0955	LC34-DPT0955-013.0-20231003	11	15	1.2	U	340		1.7	J	1	U	470		UG/L
LC34-DPT0955	LC34-DPT0955-018.0-20231003	16	20	12	U	2300		59		10	U	1900		UG/L
LC34-DPT0955	LC34-DPT0955-025.0-20231003	23	27	120	U	23000		440	J	100	U	8000		UG/L
LC34-DPT0955	LC34-DPT0955-034.0-20231003	32	36	58	U	8600		97	J	50	U	3100		UG/L
LC34-DPT0955	LC34-DPT0955-038.0-20231003	36	40	0.23	U	3.4		0.34	U	0.20	U	1		UG/L
LC34-DPT0956	LC34-DPT0956-008.0-20231003	6	10	0.46	U	72		1.9	J	0.40	U	29		UG/L
LC34-DPT0956	LC34-DPT0956-013.0-20231003	11	15	0.46	U	210		2.5		0.40	U	250		UG/L
LC34-DPT0956	LC34-DPT0956-018.0-20231003	16	20	5.8	U	780		12	J	5	U	320		UG/L
LC34-DPT0956	LC34-DPT0956-025.0-20231003	23	27	23	U	3500		71	J	20	U	1300		UG/L
LC34-DPT0956	LC34-DPT0956-034.0-20231003	32	36	2.3	U	440		4.7	J	2	U	140		UG/L
LC34-DPT0956	LC34-DPT0956-038.0-20231003	36	40	0.23	U	0.84	J	0.34	U	0.20	U	0.71	J	UG/L
LC34-DPT0957	LC34-DPT0957-008.0-20231003	6	10	0.23	U	73		1.1		0.20	U	24		UG/L
LC34-DPT0957	LC34-DPT0957-013.0-20231003	11	15	0.23	U	77		0.34	U	0.20	U	140		UG/L
LC34-DPT0957	LC34-DPT0957-018.0-20231003	16	20	0.46	U	84		0.68	U	0.40	U	290		UG/L
LC34-DPT0957	LC34-DPT0957-025.0-20231003	23	27	1.2	U	1600		34		1	U	1200		UG/L
LC34-DPT0957	LC34-DPT0957-034.0-20231003	32	36	0.46	U	350		9.3		0.40	U	340		UG/L
LC34-DPT0957	LC34-DPT0957-038.0-20231003	36	40	0.23	U	0.36	J	0.34	U	0.20	U	0.40	J	UG/L
LC34-DPT0958	LC34-DPT0958-008.0-20231003	6	10	0.23	U	19		0.34	U	0.20	U	10		UG/L
LC34-DPT0958	LC34-DPT0958-013.0-20231003	11	15	0.23	U	19		0.34	U	0.20	U	50		UG/L
LC34-DPT0958	LC34-DPT0958-018.0-20231004	16	20	0.23	U	44		0.34	U	0.20	U	96		UG/L
LC34-DPT0958	LC34-DPT0958-025.0-20231004	23	27	1.2	U	480		4.9	J	1	U	690		UG/L
LC34-DPT0958	LC34-DPT0958-034.0-20231004	32	36	5.8	U	120		8.5	U	5	U	3100		UG/L
LC34-DPT0958	LC34-DPT0958-038.0-20231004	36	40	2.3	U	40		3.4	U	2	U	3200		UG/L
LC34-DPT0958	LC34-DPT0958-038.0-20231023	36	40	2.3	U	43		3.4	U	2	U	1400		UG/L
LC34-DPT0958	LC34-DPT0958-043.0-20231023	41	45	0.46	U	44		0.68	U	0.40	U	120		UG/L
LC34-DPT0959	LC34-DPT0959-008.0-20231004	6	10	0.23	U	10		0.34	U	0.20	U	11		UG/L
LC34-DPT0959	LC34-DPT0959-013.0-20231004	11	15	0.23	U	24		0.34	U	0.20	U	35		UG/L
LC34-DPT0959	LC34-DPT0959-018.0-20231004	16	20	0.23	U	41		0.48	J	0.20	U	60		UG/L
LC34-DPT0959	LC34-DPT0959-025.0-20231004	23	27	0.46	U	350		3.6		0.40	U	360		UG/L
LC34-DPT0959	LC34-DPT0959-034.0-20231004	32	36	5.8	U	1600		8.5	U	5	U	820		UG/L
LC34-DPT0959	LC34-DPT0959-038.0-20231004	36	40	0.23	U	240		0.34	U	0.20	U	17		UG/L
LC34-DPT0959	LC34-DPT0959-038.0-20231023	36	40	2.3	U	1200		3.4	U	2	U	200		UG/L
LC34-DPT0959	LC34-DPT0959-043.0-20231023	41	45	0.23	U	7.7		0.34	U	0.20	U	0.40	J	UG/L
LC34-DPT0960	LC34-DPT0960-008.0-20231004	6	10	0.23	U	1.4		0.34	U	0.20	U	6.5		UG/L
LC34-DPT0960	LC34-DPT0960-013.0-20231004	11	15	0.23	U	4.4		0.34	U	0.20	U	44		UG/L
LC34-DPT0960	LC34-DPT0960-018.0-20231004	16	20	0.23	U	22		0.34	U	0.20	U	41		UG/L
LC34-DPT0960	LC34-DPT0960-025.0-20231004	23	27	5.8	U	930		9.1	J	5	U	1800		UG/L

Location	Sample	Top Depth	Bottom Depth	Freon		cDCE		tDCE		TCE		VC		Units
LC34-DPT0960	LC34-DPT0960-034.0-20231004	32	36	0.23	U	1.6		2.5		0.20	U	3600		UG/L
LC34-DPT0960	LC34-DPT0960-038.0-20231004	36	40	0.23	U	24		0.34	U	0.20	U	2300		UG/L
LC34-DPT0960	LC34-DPT0960-038.0-20231023	36	40	5.8	U	6.3	U	8.5	U	5	U	2300		UG/L
LC34-DPT0960	LC34-DPT0960-043.0-20231023	41	45	0.23	U	36		0.34	U	0.20	U	39		UG/L
LC34-DPT0961	LC34-DPT0961-008.0-20231004	6	10	0.23	U	2.3		0.34	U	0.20	U	7.8		UG/L
LC34-DPT0961	LC34-DPT0961-013.0-20231004	11	15	0.23	U	10		0.34	U	0.20	U	26		UG/L
LC34-DPT0961	LC34-DPT0961-018.0-20231004	16	20	0.23	U	180		6.1		0.20	U	480		UG/L
LC34-DPT0961	LC34-DPT0961-025.0-20231004	23	27	2.3	U	960		8.1	J	2	U	350		UG/L
LC34-DPT0961	LC34-DPT0961-034.0-20231004	32	36	1.2	U	3600		10		1	U	480		UG/L
LC34-DPT0961	LC34-DPT0961-038.0-20231004	36	40	0.23	U	800		0.55	J	0.20	U	15		UG/L
LC34-DPT0961	LC34-DPT0961-038.0-20231023	36	40	1.2	U	600		1.7	U	1	U	7.6		UG/L
LC34-DPT0961	LC34-DPT0961-043.0-20231023	41	45	0.23	U	0.25	U	0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT0962	LC34-DPT0962-008.0-20231004	6	10	0.23	U	2.7		0.34	U	0.20	U	1.9		UG/L
LC34-DPT0962	LC34-DPT0962-013.0-20231004	11	15	0.23	U	12		0.34	U	0.20	U	10		UG/L
LC34-DPT0962	LC34-DPT0962-018.0-20231004	16	20	0.23	U	94		1.7		0.20	U	48		UG/L
LC34-DPT0962	LC34-DPT0962-025.0-20231004	23	27	1.2	U	710		8.7		1	U	610		UG/L
LC34-DPT0962	LC34-DPT0962-034.0-20231005	32	36	5.8	U	360		8.5	U	5	U	2400		UG/L
LC34-DPT0962	LC34-DPT0962-038.0-20231005	36	40	5.8	U	320		8.5	U	5	U	890		UG/L
LC34-DPT0962	LC34-DPT0962-038.0-20231023	36	40	1.2	U	76		1.7	U	1	U	350		UG/L
LC34-DPT0962	LC34-DPT0962-043.0-20231023	41	45	0.23	U	2.9		0.34	U	0.20	U	52		UG/L
LC34-DPT0963	LC34-DPT0963-008.0-20231005	6	10	0.23	U	1.4		0.34	U	0.20	U	2		UG/L
LC34-DPT0963	LC34-DPT0963-013.0-20231005	11	15	0.23	U	12		0.34	U	0.20	U	94		UG/L
LC34-DPT0963	LC34-DPT0963-018.0-20231005	16	20	0.23	U	63		3.1		0.20	U	360		UG/L
LC34-DPT0963	LC34-DPT0963-025.0-20231005	23	27	0.46	U	30		4.2		0.40	U	350		UG/L
LC34-DPT0963	LC34-DPT0963-034.0-20231005	32	36	5.8	U	3100		15	J	5	U	3100		UG/L
LC34-DPT0963	LC34-DPT0963-038.0-20231005	36	40	1.2	U	2500		1.7	J	1	U	53		UG/L
LC34-DPT0963	LC34-DPT0963-038.0-20231024	36	40	5.8	U	1700		8.5	U	5	U	930		UG/L
LC34-DPT0963	LC34-DPT0963-043.0-20231024	41	45	0.23	U	170		0.34	U	0.20	U	1.2		UG/L
LC34-DPT0964	LC34-DPT0964-008.0-20231005	6	10	0.23	U	4.8		0.34	U	0.20	U	9.6		UG/L
LC34-DPT0964	LC34-DPT0964-013.0-20231005	11	15	0.23	U	140		2.4		0.20	U	72		UG/L
LC34-DPT0964	LC34-DPT0964-018.0-20231005	16	20	0.23	U	510		9.5		0.20	U	210		UG/L
LC34-DPT0964	LC34-DPT0964-025.0-20231005	23	27	2.3	U	1900		53		2	U	480		UG/L
LC34-DPT0964	LC34-DPT0964-034.0-20231005	32	36	0.23	U	79		0.34	U	0.20	U	0.97	J	UG/L
LC34-DPT0964	LC34-DPT0964-038.0-20231005	36	40	0.23	U	0.63	J	0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT0965	LC34-DPT0965-008.0-20231005	6	10	0.23	U	13		1.2		0.20	U	1.1		UG/L
LC34-DPT0965	LC34-DPT0965-013.0-20231005	11	15	0.23	U	10		0.34	J	0.20	U	130		UG/L
LC34-DPT0965	LC34-DPT0965-018.0-20231005	16	20	4.6	U	190		6.8	U	4	U	1200		UG/L
LC34-DPT0965	LC34-DPT0965-025.0-20231005	23	27	12	U	130		24	J	13	J	3200		UG/L
LC34-DPT0965	LC34-DPT0965-034.0-20231005	32	36	12	U	13	U	17	U	10	J	3200		UG/L
LC34-DPT0965	LC34-DPT0965-038.0-20231005	36	40	4.6	U	160		6.8	U	4	U	1300		UG/L
LC34-DPT0965	LC34-DPT0965-038.0-20231024	36	40	2.3	U	710		3.4	U	2	U	1900		UG/L
LC34-DPT0965	LC34-DPT0965-043.0-20231024	41	45	0.23	U	190		0.34	U	0.20	U	36		UG/L
LC34-DPT0966	LC34-DPT0966-008.0-20231005	6	10	0.23	U	0.37	J	0.34	U	0.42	J	0.40	U	UG/L
LC34-DPT0966	LC34-DPT0966-013.0-20231005	11	15	0.23	U	1.7		0.34	U	0.20	U	27		UG/L
LC34-DPT0966	LC34-DPT0966-018.0-20231005	16	20	0.23	U	3.8		0.34	U	0.20	U	14		UG/L
LC34-DPT0966	LC34-DPT0966-025.0-20231005	23	27	4.6	U	52		6.9	J	4	U	890		UG/L
LC34-DPT0966	LC34-DPT0966-034.0-20231005	32	36	0.46	U	8.5		19		0.40	U	4800		UG/L
LC34-DPT0966	LC34-DPT0966-038.0-20231005	36	40	5.8	U	11	J	8.5	U	5	U	2400		UG/L
LC34-DPT0966	LC34-DPT0966-038.0-20231024	36	40	2.3	U	3.5	J	3.4	U	2	U	1500		UG/L

Location	Sample	Top Depth	Bottom Depth	Freon		cDCE		tDCE		TCE		VC		Units
LC34-DPT0966	LC34-DPT0966-043.0-20231024	41	45	1.2	U	1.4	J	1.7	U	1	U	560		UG/L
LC34-DPT0967	LC34-DPT0967-008.0-20231006	6	10	0.23	U	0.38	J	0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT0967	LC34-DPT0967-013.0-20231006	11	15	0.23	U	23		0.59	J	0.58	J	23		UG/L
LC34-DPT0967	LC34-DPT0967-018.0-20231006	16	20	0.23	U	69		1.7		0.28	J	82		UG/L
LC34-DPT0967	LC34-DPT0967-025.0-20231006	23	27	2.3	U	1400		26		2	U	1300		UG/L
LC34-DPT0967	LC34-DPT0967-034.0-20231006	32	36	5.8	U	2700		12	J	5	U	760		UG/L
LC34-DPT0967	LC34-DPT0967-038.0-20231006	36	40	1.2	U	490		1.7	U	1	U	14		UG/L
LC34-DPT0967	LC34-DPT0967-038.0-20231024	36	40	0.46	U	190		0.68	U	0.68	J	6.4		UG/L
LC34-DPT0967	LC34-DPT0967-043.0-20231024	41	45	0.23	U	2		0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT0968	LC34-DPT0968-008.0-20231006	6	10	0.23	U	1.6		0.34	U	0.32	J	0.40	U	UG/L
LC34-DPT0968	LC34-DPT0968-013.0-20231006	11	15	0.23	U	6.9		0.34	U	1.2		2.5		UG/L
LC34-DPT0968	LC34-DPT0968-018.0-20231006	16	20	0.23	U	72		1.3		0.33	J	18		UG/L
LC34-DPT0968	LC34-DPT0968-025.0-20231006	23	27	5.8	U	2300		39		5	U	1500		UG/L
LC34-DPT0968	LC34-DPT0968-034.0-20231006	32	36	2.3	U	1300		3.4	U	2	U	150		UG/L
LC34-DPT0968	LC34-DPT0968-038.0-20231006	36	40	0.23	U	48		0.34	U	0.20	U	2.9		UG/L
LC34-DPT0969	LC34-DPT0969-008.0-20231006	6	10	0.23	U	8.1		0.34	U	0.20	U	9.1		UG/L
LC34-DPT0969	LC34-DPT0969-013.0-20231006	11	15	0.23	U	19		0.34	U	0.20	U	27		UG/L
LC34-DPT0969	LC34-DPT0969-018.0-20231006	16	20	0.23	U	78		0.34	U	0.20	U	130		UG/L
LC34-DPT0969	LC34-DPT0969-025.0-20231006	23	27	12	U	3500		130		10	U	820		UG/L
LC34-DPT0969	LC34-DPT0969-034.0-20231006	32	36	58	U	58000		2100		470		9600		UG/L
LC34-DPT0969	LC34-DPT0969-038.0-20231006	36	40	46	U	21000		290		50	J	3700		UG/L
LC34-DPT0969	LC34-DPT0969-038.0-20231024	36	40	23	U	13000		130		20	U	2300		UG/L
LC34-DPT0969	LC34-DPT0969-043.0-20231024	41	45	0.23	U	0.84	J	0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT0970	LC34-DPT0970-008.0-20231009	6	10	0.23	UJ	14	J	0.34	UJ	0.20	UJ	21	J	UG/L
LC34-DPT0970	LC34-DPT0970-013.0-20231009	11	15	0.23	UJ	72	J	0.91	J	0.20	UJ	150	J	UG/L
LC34-DPT0970	LC34-DPT0970-018.0-20231009	16	20	0.23	UJ	8800	J	200	J	0.20	UJ	2200	J	UG/L
LC34-DPT0970	LC34-DPT0970-025.0-20231009	23	27	23	UJ	42000	J	1700	J	20	UJ	12000	J	UG/L
LC34-DPT0970	LC34-DPT0970-034.0-20231009	32	36	46	UJ	27000	J	380	J	40	UJ	8800	J	UG/L
LC34-DPT0970	LC34-DPT0970-038.0-20231009	36	40	12	UJ	2300	J	17	UJ	16	J	20	UJ	UG/L
LC34-DPT0970	LC34-DPT0970-038.0-20231024	36	40	1.2	U	460		1.7	U	1	U	77		UG/L
LC34-DPT0970	LC34-DPT0970-043.0-20231024	41	45	0.23	U	0.25	U	0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT0971	LC34-DPT0971-008.0-20231009	6	10	0.23	UJ	3.9	J	0.34	UJ	0.20	UJ	5.7	J	UG/L
LC34-DPT0971	LC34-DPT0971-013.0-20231009	11	15	0.23	U	7.2		0.34	U	0.20	U	47		UG/L
LC34-DPT0971	LC34-DPT0971-018.0-20231009	16	20	1.2	UJ	400	J	1.7	UJ	1	UJ	380	J	UG/L
LC34-DPT0971	LC34-DPT0971-025.0-20231009	23	27	58	UJ	29000	J	500	J	50	UJ	5800	J	UG/L
LC34-DPT0971	LC34-DPT0971-034.0-20231009	32	36	5.8	U	17	J	8.5	U	5	U	10	U	UG/L
LC34-DPT0971	LC34-DPT0971-038.0-20231009	36	40	0.23	UJ	7.3	J	0.34	UJ	0.20	UJ	1	J	UG/L
LC34-DPT0972	LC34-DPT0972-008.0-20231009	6	10	0.46	U	0.79	J	0.68	U	0.40	U	0.80	U	UG/L
LC34-DPT0972	LC34-DPT0972-013.0-20231009	11	15	0.23	UJ	24	J	0.34	UJ	0.20	UJ	68	J	UG/L
LC34-DPT0972	LC34-DPT0972-018.0-20231009	16	20	0.23	UJ	16	J	0.34	UJ	0.20	UJ	38	J	UG/L
LC34-DPT0972	LC34-DPT0972-025.0-20231009	23	27	0.23	UJ	1.2	J	1	J	0.20	UJ	29	J	UG/L
LC34-DPT0972	LC34-DPT0972-034.0-20231009	32	36	0.23	U	28		0.34	U	0.20	U	49		UG/L
LC34-DPT0972	LC34-DPT0972-038.0-20231009	36	40	0.23	UJ	0.28	J	0.34	UJ	0.20	UJ	0.40	UJ	UG/L
LC34-DPT0973	LC34-DPT0973-008.0-20231010	6	10	0.23	U	1.1		0.34	U	0.20	U	2.2		UG/L
LC34-DPT0973	LC34-DPT0973-013.0-20231010	11	15	0.23	U	13		0.34	U	0.20	U	20		UG/L
LC34-DPT0973	LC34-DPT0973-018.0-20231010	16	20	0.23	U	200		0.34	U	0.20	U	72		UG/L
LC34-DPT0973	LC34-DPT0973-025.0-20231010	23	27	0.23	U	66		1.8		0.20	U	31		UG/L
LC34-DPT0973	LC34-DPT0973-034.0-20231010	32	36	0.23	U	5.9		0.34	U	0.20	U	6.5		UG/L
LC34-DPT0973	LC34-DPT0973-038.0-20231010	36	40	0.23	U	0.25	U	0.34	U	0.20	U	0.40	U	UG/L

Location	Sample	Top Depth	Bottom Depth	Freon		cDCE		tDCE		TCE		VC		Units
LC34-DPT0974	LC34-DPT0974-008.0-20231010	6	10	0.23	U	2		0.34	U	0.20	U	5.3		UG/L
LC34-DPT0974	LC34-DPT0974-013.0-20231010	11	15	0.23	U	16		0.34	U	0.23	J	25		UG/L
LC34-DPT0974	LC34-DPT0974-018.0-20231010	16	20	0.23	U	290		0.38	J	0.20	U	82		UG/L
LC34-DPT0974	LC34-DPT0974-025.0-20231010	23	27	0.23	U	1.8		0.34	U	0.20	U	2.7		UG/L
LC34-DPT0974	LC34-DPT0974-034.0-20231010	32	36	0.23	U	3.5		0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT0974	LC34-DPT0974-038.0-20231010	36	40	0.23	U	0.25	U	0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT0975	LC34-DPT0975-008.0-20231010	6	10	0.23	U	14		0.34	U	0.20	U	21		UG/L
LC34-DPT0975	LC34-DPT0975-013.0-20231010	11	15	0.23	U	31		0.34	U	0.20	U	43		UG/L
LC34-DPT0975	LC34-DPT0975-018.0-20231010	16	20	0.23	U	4.3		0.34	U	0.20	U	8.2		UG/L
LC34-DPT0975	LC34-DPT0975-025.0-20231010	23	27	0.23	U	2.4		0.34	U	0.20	U	61		UG/L
LC34-DPT0975	LC34-DPT0975-034.0-20231010	32	36	0.23	U	0.61	J	0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT0975	LC34-DPT0975-038.0-20231010	36	40	0.23	U	0.25	U	0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT0976	LC34-DPT0976-008.0-20231010	6	10	0.23	U	11		0.34	U	0.20	U	23		UG/L
LC34-DPT0976	LC34-DPT0976-013.0-20231010	11	15	0.23	U	35		0.34	U	0.20	U	90		UG/L
LC34-DPT0976	LC34-DPT0976-018.0-20231010	16	20	0.23	U	6.6		0.34	U	0.20	U	20		UG/L
LC34-DPT0976	LC34-DPT0976-025.0-20231010	23	27	0.23	U	13		0.34	U	0.20	U	34		UG/L
LC34-DPT0976	LC34-DPT0976-034.0-20231010	32	36	0.23	U	0.25	U	0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT0976	LC34-DPT0976-038.0-20231010	36	40	0.23	U	0.25	U	0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT0977	LC34-DPT0977-008.0-20231010	6	10	0.23	U	0.69	J	0.34	U	0.20	U	2.6		UG/L
LC34-DPT0977	LC34-DPT0977-013.0-20231010	11	15	0.23	U	0.87	J	0.34	U	0.20	U	3.8		UG/L
LC34-DPT0977	LC34-DPT0977-018.0-20231010	16	20	0.23	U	2.7		0.34	U	0.20	U	9.5		UG/L
LC34-DPT0977	LC34-DPT0977-025.0-20231010	23	27	0.23	U	10		0.34	U	0.20	U	23		UG/L
LC34-DPT0977	LC34-DPT0977-034.0-20231010	32	36	0.23	U	0.78	J	0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT0977	LC34-DPT0977-038.0-20231011	36	40	0.23	U	0.25	U	0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT0978	LC34-DPT0978-008.0-20231011	6	10	0.23	U	5.9		0.34	U	0.20	U	31		UG/L
LC34-DPT0978	LC34-DPT0978-013.0-20231011	11	15	0.23	U	2.6		0.34	U	0.20	U	15		UG/L
LC34-DPT0978	LC34-DPT0978-018.0-20231011	16	20	0.23	U	2.1		0.34	U	0.20	U	80		UG/L
LC34-DPT0978	LC34-DPT0978-025.0-20231011	23	27	1.2	U	1.3	U	1.7	U	1	U	420		UG/L
LC34-DPT0978	LC34-DPT0978-034.0-20231011	32	36	0.23	U	0.90	J	0.34	U	0.20	U	8.2		UG/L
LC34-DPT0978	LC34-DPT0978-038.0-20231011	36	40	0.23	U	0.25	U	0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT0979	LC34-DPT0979-008.0-20231011	6	10	0.23	U	50		0.34	U	0.20	U	63		UG/L
LC34-DPT0979	LC34-DPT0979-013.0-20231011	11	15	0.23	U	28		0.34	U	0.20	U	120		UG/L
LC34-DPT0979	LC34-DPT0979-018.0-20231011	16	20	2.3	U	56		3.4	U	2	U	1100		UG/L
LC34-DPT0979	LC34-DPT0979-025.0-20231011	23	27	5.8	U	6.3	U	71		5	U	4600		UG/L
LC34-DPT0979	LC34-DPT0979-034.0-20231011	32	36	0.23	U	7.8		0.34	U	0.20	U	250		UG/L
LC34-DPT0979	LC34-DPT0979-038.0-20231011	36	40	0.23	U	0.25	U	0.34	U	0.20	U	0.97	J	UG/L
LC34-DPT0980	LC34-DPT0980-008.0-20231011	6	10	0.23	U	23		0.34	U	0.20	U	25		UG/L
LC34-DPT0980	LC34-DPT0980-013.0-20231011	11	15	0.23	U	20		0.34	U	0.20	U	31		UG/L
LC34-DPT0980	LC34-DPT0980-018.0-20231011	16	20	0.23	U	17		0.34	U	0.20	U	4.2		UG/L
LC34-DPT0980	LC34-DPT0980-025.0-20231011	23	27	0.46	U	190		3.4		0.40	U	370		UG/L
LC34-DPT0980	LC34-DPT0980-034.0-20231011	32	36	0.46	U	68		0.68	U	0.40	U	310		UG/L
LC34-DPT0980	LC34-DPT0980-038.0-20231011	36	40	0.23	U	0.25	U	0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT0981	LC34-DPT0981-008.0-20231011	6	10	0.23	U	17		0.34	U	0.20	U	79		UG/L
LC34-DPT0981	LC34-DPT0981-013.0-20231011	11	15	0.23	U	43		0.34	U	0.20	U	120		UG/L
LC34-DPT0981	LC34-DPT0981-018.0-20231011	16	20	0.23	U	85		0.85	J	0.20	U	170		UG/L
LC34-DPT0981	LC34-DPT0981-025.0-20231011	23	27	0.23	U	13		0.34	U	0.20	U	65		UG/L
LC34-DPT0981	LC34-DPT0981-034.0-20231011	32	36	0.23	U	0.25	U	0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT0981	LC34-DPT0981-038.0-20231011	36	40	0.23	U	0.25	U	0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT0982	LC34-DPT0982-008.0-20231012	6	10	0.23	U	11		0.34	U	0.20	U	15		UG/L

Location	Sample	Top Depth	Bottom Depth	Freon		cDCE		tDCE		TCE		VC		Units
LC34-DPT0982	LC34-DPT0982-013.0-20231012	11	15	0.23	U	9.2		0.34	U	0.20	U	18		UG/L
LC34-DPT0982	LC34-DPT0982-018.0-20231012	16	20	1.2	U	430		5.5		1	U	980		UG/L
LC34-DPT0982	LC34-DPT0982-025.0-20231012	23	27	0.23	U	4.3		0.34	U	0.20	U	19		UG/L
LC34-DPT0982	LC34-DPT0982-034.0-20231012	32	36	0.23	U	6.1		0.34	U	0.20	U	9.5		UG/L
LC34-DPT0982	LC34-DPT0982-038.0-20231012	36	40	0.23	U	0.25	U	0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT0983	LC34-DPT0983-008.0-20231012	6	10	0.23	U	59		0.34	U	0.20	U	58		UG/L
LC34-DPT0983	LC34-DPT0983-013.0-20231012	11	15	0.23	U	47		0.34	U	0.20	U	78		UG/L
LC34-DPT0983	LC34-DPT0983-018.0-20231012	16	20	0.46	U	64		0.68	U	0.40	U	350		UG/L
LC34-DPT0983	LC34-DPT0983-025.0-20231012	23	37	4.6	U	6.6	J	150		4	U	2900		UG/L
LC34-DPT0983	LC34-DPT0983-034.0-20231012	32	36	0.46	U	5.3		0.68	U	0.40	U	340		UG/L
LC34-DPT0983	LC34-DPT0983-038.0-20231012	36	40	0.23	U	0.25	U	0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT0984	LC34-DPT0984-008.0-20231012	6	10	0.23	U	15		0.34	U	0.20	U	23		UG/L
LC34-DPT0984	LC34-DPT0984-013.0-20231012	11	15	1.2	U	580		7.4		1	U	670		UG/L
LC34-DPT0984	LC34-DPT0984-018.0-20231012	16	20	5.8	U	1000		120		5	U	3800		UG/L
LC34-DPT0984	LC34-DPT0984-025.0-20231012	23	27	0.23	U	1.5		74		0.20	U	6900		UG/L
LC34-DPT0984	LC34-DPT0984-034.0-20231012	32	36	0.23	U	2.8		0.44	J	0.20	U	200	U	UG/L
LC34-DPT0984	LC34-DPT0984-038.0-20231013	36	40	0.23	U	0.25	U	0.34	U	0.20	U	30		UG/L
LC34-DPT0984	LC34-DPT0984-038.0-20231026	36	40	0.23	U	0.25	U	0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT0984	LC34-DPT0984-043.0-20231026	41	45	0.23	U	0.25	U	0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT0985	LC34-DPT0985-008.0-20231013	6	10	0.23	U	30		0.34	U	0.20	U	53		UG/L
LC34-DPT0985	LC34-DPT0985-013.0-20231013	11	15	0.23	U	60		0.34	U	0.20	U	79		UG/L
LC34-DPT0985	LC34-DPT0985-018.0-20231013	16	20	1.2	U	400		7.1		1	U	440		UG/L
LC34-DPT0985	LC34-DPT0985-025.0-20231013	23	27	2.3	U	2.5	U	3.4	U	2	U	1500		UG/L
LC34-DPT0985	LC34-DPT0985-034.0-20231013	32	36	0.23	U	16		0.34	U	0.20	U	79		UG/L
LC34-DPT0985	LC34-DPT0985-038.0-20231013	36	40	0.23	U	0.25	U	0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT0986	LC34-DPT0986-008.0-20231013	6	10	0.23	U	42		0.34	U	0.20	U	54		UG/L
LC34-DPT0986	LC34-DPT0986-013.0-20231013	11	15	0.23	U	40		0.34	U	0.20	U	48		UG/L
LC34-DPT0986	LC34-DPT0986-018.0-20231013	16	20	0.46	U	200		2		0.40	U	110		UG/L
LC34-DPT0986	LC34-DPT0986-025.0-20231013	23	27	0.23	U	200		4.7		0.20	U	210		UG/L
LC34-DPT0986	LC34-DPT0986-034.0-20231013	32	36	0.23	U	21		0.34	U	0.20	U	79		UG/L
LC34-DPT0986	LC34-DPT0986-038.0-20231013	36	40	0.23	U	0.25	U	0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT0987	LC34-DPT0987-008.0-20231013	6	10	0.23	U	43		0.34	U	0.20	U	57		UG/L
LC34-DPT0987	LC34-DPT0987-013.0-20231013	11	15	0.23	U	59		0.34	U	0.20	U	75		UG/L
LC34-DPT0987	LC34-DPT0987-018.0-20231013	16	20	0.23	U	120		0.49	J	0.20	U	120		UG/L
LC34-DPT0987	LC34-DPT0987-025.0-20231013	23	27	0.23	U	56		1.3		0.20	U	110		UG/L
LC34-DPT0987	LC34-DPT0987-034.0-20231013	32	36	0.46	U	230		1.1	J	0.40	U	72		UG/L
LC34-DPT0987	LC34-DPT0987-038.0-20231013	36	40	0.23	U	2.8		0.34	U	0.20	U	0.52	J	UG/L
LC34-DPT0988	LC34-DPT0988-008.0-20231016	6	10	0.23	U	0.52	J	0.71	J	0.41	J	1.6		UG/L
LC34-DPT0988	LC34-DPT0988-013.0-20231016	11	15	0.46	U	66		0.68	U	0.40	U	250		UG/L
LC34-DPT0988	LC34-DPT0988-018.0-20231016	16	20	5.8	U	3000		63		5	U	1900		UG/L
LC34-DPT0988	LC34-DPT0988-025.0-20231016	23	27	2.3	U	1200		6.4	J	2	U	220		UG/L
LC34-DPT0988	LC34-DPT0988-034.0-20231016	32	36	0.23	U	16		0.34	U	0.20	U	1.1		UG/L
LC34-DPT0988	LC34-DPT0988-038.0-20231016	36	40	0.23	U	0.43	J	0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT0989	LC34-DPT0989-008.0-20231016	6	10	0.23	U	3.8		0.34	U	0.20	U	25		UG/L
LC34-DPT0989	LC34-DPT0989-013.0-20231016	11	15	1.2	U	250		1.7	U	1.6	J	810		UG/L
LC34-DPT0989	LC34-DPT0989-018.0-20231016	16	20	5.8	U	1700		21	J	5	U	690		UG/L
LC34-DPT0989	LC34-DPT0989-025.0-20231016	23	27	1.2	U	640		1.7	U	1	U	37		UG/L
LC34-DPT0989	LC34-DPT0989-034.0-20231016	32	36	0.23	U	0.72	J	0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT0989	LC34-DPT0989-038.0-20231016	36	40	0.23	U	0.25	U	0.34	U	0.20	U	0.40	U	UG/L

Location	Sample	Top Depth	Bottom Depth	Freon		cDCE		tDCE		TCE		VC		Units
LC34-DPT0990	LC34-DPT0990-008.0-20231016	6	10	0.23	U	8.2		0.34	U	0.20	U	74		UG/L
LC34-DPT0990	LC34-DPT0990-013.0-20231016	11	15	5.8	U	1300		8.5	J	5	U	590		UG/L
LC34-DPT0990	LC34-DPT0990-018.0-20231016	16	20	5.8	U	1600		11	J	5	U	290		UG/L
LC34-DPT0990	LC34-DPT0990-025.0-20231016	23	27	1.2	U	630		1.7	U	1	U	60		UG/L
LC34-DPT0990	LC34-DPT0990-034.0-20231016	32	36	0.23	U	1.4		0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT0990	LC34-DPT0990-038.0-20231016	36	40	0.23	U	0.88	J	0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT0991	LC34-DPT0991-008.0-20231016	6	10	0.23	U	26		0.34	U	0.20	U	46		UG/L
LC34-DPT0991	LC34-DPT0991-013.0-20231016	11	15	1.2	U	300		1.7	U	1	U	570		UG/L
LC34-DPT0992	LC34-DPT0992-008.0-20231017	6	10	0.23	U	0.25	U	0.34	U	0.20	U	1		UG/L
LC34-DPT0992	LC34-DPT0992-013.0-20231017	11	15	1.2	U	140		1.7	U	1	U	470		UG/L
LC34-DPT0992	LC34-DPT0992-018.0-20231017	16	20	5.8	U	1000		8.5	U	5	U	540		UG/L
LC34-DPT0992	LC34-DPT0992-025.0-20231017	23	27	2.3	U	840		7.6	J	2	U	170		UG/L
LC34-DPT0992	LC34-DPT0992-034.0-20231017	32	36	0.46	U	150		0.68	U	0.40	U	8.4		UG/L
LC34-DPT0992	LC34-DPT0992-038.0-20231017	36	40	0.23	U	0.53	J	0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT0993	LC34-DPT0993-008.0-20231017	6	10	0.23	U	41		0.34	U	0.20	U	110		UG/L
LC34-DPT0993	LC34-DPT0993-013.0-20231017	11	15	2.3	U	160		3.4	U	2	U	280		UG/L
LC34-DPT0993	LC34-DPT0993-018.0-20231017	16	20	2.3	U	1100		8.8	J	2	U	540		UG/L
LC34-DPT0993	LC34-DPT0993-025.0-20231017	23	27	2.3	U	1200		3.4	U	2	U	300		UG/L
LC34-DPT0993	LC34-DPT0993-034.0-20231017	32	36	0.23	U	130		0.34	U	0.20	U	8.3		UG/L
LC34-DPT0993	LC34-DPT0993-038.0-20231017	36	40	0.23	U	0.67	J	0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT0994	LC34-DPT0994-008.0-20231017	6	10	1.2	U	91		3.9	J	200		2	U	UG/L
LC34-DPT0994	LC34-DPT0994-013.0-20231017	11	15	0.46	U	66		0.68	U	83		10		UG/L
LC34-DPT0994	LC34-DPT0994-018.0-20231017	16	20	0.23	U	2.4		0.34	U	0.68	J	42		UG/L
LC34-DPT0994	LC34-DPT0994-025.0-20231017	23	27	2.3	U	9.6	J	10		2	U	1600		UG/L
LC34-DPT0994	LC34-DPT0994-034.0-20231017	32	36	12	U	23	J	17	U	10	U	5700		UG/L
LC34-DPT0994	LC34-DPT0994-038.0-20231017	36	40	12	U	15	J	17	U	10	J	4200		UG/L
LC34-DPT0994	LC34-DPT0994-038.0-20231024	36	40	5.8	U	6.3	U	8.5	U	5	U	2700		UG/L
LC34-DPT0994	LC34-DPT0994-043.0-20231024	41	45	1.2	U	1.3	J	1.7	U	1	U	370		UG/L
LC34-DPT0995	LC34-DPT0995-008.0-20231017	6	10	0.23	U	2.8		0.34	U	35		0.44	J	UG/L
LC34-DPT0995	LC34-DPT0995-013.0-20231017	11	15	0.23	U	6.5		0.34	U	29		10		UG/L
LC34-DPT0995	LC34-DPT0995-018.0-20231017	16	20	2.3	U	500		15		3.8	J	1400		UG/L
LC34-DPT0995	LC34-DPT0995-025.0-20231017	23	27	12	U	4000		130		27	J	7000		UG/L
LC34-DPT0995	LC34-DPT0995-034.0-20231017	32	36	12	U	250		24	J	10	U	6800		UG/L
LC34-DPT0995	LC34-DPT0995-038.0-20231017	36	40	2.3	U	5.4	J	3.4	U	2	U	2300		UG/L
LC34-DPT0995	LC34-DPT0995-038.0-20231027	36	40	4.6	U	19	J	6.8	U	4	U	2800		UG/L
LC34-DPT0995	LC34-DPT0995-043.0-20231027	41	45	1.2	U	5.7		1.7	U	1	U	670		UG/L
LC34-DPT0996	LC34-DPT0996-008.0-20231017	6	10	0.23	U	2.3		0.34	U	6.6		1		UG/L
LC34-DPT0996	LC34-DPT0996-013.0-20231017	11	15	0.23	U	3.6		0.34	U	8.7		2.2		UG/L
LC34-DPT0996	LC34-DPT0996-018.0-20231017	16	20	0.23	U	3.9		0.34	U	5.1		1.3		UG/L
LC34-DPT0996	LC34-DPT0996-025.0-20231018	23	27	0.23	U	33		1.3		0.20	U	3.3		UG/L
LC34-DPT0996	LC34-DPT0996-034.0-20231018	32	36	0.23	U	160		21		0.20	U	180		UG/L
LC34-DPT0996	LC34-DPT0996-038.0-20231018	36	40	12	U	5400		79		10	U	7200		UG/L
LC34-DPT0996	LC34-DPT0996-038.0-20231027	36	40	5.8	U	5200		100		5	U	4000		UG/L
LC34-DPT0996	LC34-DPT0996-043.0-20231027	41	45	23	U	14000		34	U	20	U	8300		UG/L
LC34-DPT0997	LC34-DPT0997-008.0-20231018	6	10	0.23	U	13		0.34	U	0.20	U	4.6		UG/L
LC34-DPT0997	LC34-DPT0997-013.0-20231018	11	15	0.23	U	20		0.34	U	0.20	U	7.1		UG/L
LC34-DPT0997	LC34-DPT0997-018.0-20231018	16	20	0.23	U	31		0.34	U	0.20	U	11		UG/L
LC34-DPT0997	LC34-DPT0997-025.0-20231018	23	27	0.46	U	370		1.4	J	0.40	U	440		UG/L
LC34-DPT0997	LC34-DPT0997-032.0-20231018	30	34	5.8	U	1700		8.6	J	5	U	590		UG/L

Location	Sample	Top Depth	Bottom Depth	Freon		cDCE		tDCE		TCE		VC		Units
LC34-DPT0997	LC34-DPT0997-038.0-20231018	36	40	0.23	U	0.25	U	0.34	U	1.2		0.40	U	UG/L
LC34-DPT0998	LC34-DPT0998-008.0-20231018	6	10	0.23	U	2.2		0.34	U	0.20	U	2.8		UG/L
LC34-DPT0998	LC34-DPT0998-013.0-20231018	11	15	0.23	U	6.3		0.34	U	0.20	U	7.2		UG/L
LC34-DPT0998	LC34-DPT0998-018.0-20231018	16	20	0.23	U	26		0.34	U	0.20	U	38		UG/L
LC34-DPT0998	LC34-DPT0998-018.0-20231027	16	20	0.23	U	13		0.34	U	0.20	U	29		UG/L
LC34-DPT0998	LC34-DPT0998-025.0-20231018	23	27	1.2	U	700		1.8	J	1	U	1100		UG/L
LC34-DPT0998	LC34-DPT0998-025.0-20231027	23	27	2.3	U	1400		3.4	U	2	U	1100		UG/L
LC34-DPT0998	LC34-DPT0998-032.0-20231018	30	34	0.23	U	0.61	J	0.34	U	0.20	U	0.53	J	UG/L
LC34-DPT0998	LC34-DPT0998-032.0-20231027	30	34	0.23	U	1.1		0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT0998	LC34-DPT0998-038.0-20231018	36	40	0.23	U	0.25	U	0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT0999	LC34-DPT0999-008.0-20231018	6	10	0.23	U	3.9		0.34	U	0.20	U	5.2		UG/L
LC34-DPT0999	LC34-DPT0999-013.0-20231018	11	15	0.23	U	7.5		0.34	U	0.20	U	11		UG/L
LC34-DPT0999	LC34-DPT0999-018.0-20231018	16	20	0.46	U	160		0.68	U	0.40	U	320		UG/L
LC34-DPT0999	LC34-DPT0999-025.0-20231018	23	27	2.3	U	1400		3.4	U	2	U	910		UG/L
LC34-DPT0999	LC34-DPT0999-032.0-20231018	30	34	0.23	U	0.26	J	0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT0999	LC34-DPT0999-038.0-20231018	36	40	0.23	U	0.25	U	0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT1000	LC34-DPT1000-008.0-20231018	6	10	0.23	U	2.5		0.34	U	0.20	U	4.9		UG/L
LC34-DPT1000	LC34-DPT1000-013.0-20231018	11	15	0.23	U	6.5		0.34	U	0.20	U	17		UG/L
LC34-DPT1000	LC34-DPT1000-018.0-20231018	16	20	1.2	U	380		1.7	U	1	U	730		UG/L
LC34-DPT1000	LC34-DPT1000-025.0-20231018	23	27	0.46	U	440		0.68	U	0.40	U	170		UG/L
LC34-DPT1000	LC34-DPT1000-032.0-20231018	30	34	0.23	U	0.25	U	0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT1000	LC34-DPT1000-038.0-20231018	36	40	0.23	U	0.29	J	0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT1001	LC34-DPT1001-008.0-20231019	6	10	0.23	U	4.6		0.34	U	0.20	U	3.2		UG/L
LC34-DPT1001	LC34-DPT1001-013.0-20231019	11	15	0.23	U	6.7		0.34	U	0.20	U	5.2		UG/L
LC34-DPT1001	LC34-DPT1001-018.0-20231019	16	20	0.23	U	55		0.34	U	0.20	U	140		UG/L
LC34-DPT1001	LC34-DPT1001-025.0-20231019	23	27	2.3	U	1600		3.4	U	2	U	770		UG/L
LC34-DPT1001	LC34-DPT1001-032.0-20231019	30	34	0.23	U	0.25	U	0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT1001	LC34-DPT1001-038.0-20231018	36	40	0.23	U	0.25	U	0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT1002	LC34-DPT1002-008.0-20231019	6	10	0.23	U	0.49	J	0.34	U	0.20	U	0.91	J	UG/L
LC34-DPT1002	LC34-DPT1002-013.0-20231019	11	15	0.23	U	1.6		0.34	U	0.20	U	3		UG/L
LC34-DPT1002	LC34-DPT1002-018.0-20231019	16	20	0.23	U	22		0.34	U	0.20	U	23		UG/L
LC34-DPT1002	LC34-DPT1002-025.0-20231019	23	27	2.3	U	750		3.4	U	2	U	810		UG/L
LC34-DPT1002	LC34-DPT1002-032.0-20231019	30	34	0.23	U	0.25	U	0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT1002	LC34-DPT1002-038.0-20231019	36	40	0.23	U	0.25	U	0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT1003	LC34-DPT1003-008.0-20231019	6	10	0.23	U	2.9		0.34	U	0.20	U	3.2		UG/L
LC34-DPT1003	LC34-DPT1003-013.0-20231019	11	15	0.23	U	6.5		0.34	U	0.20	U	8.9		UG/L
LC34-DPT1003	LC34-DPT1003-018.0-20231019	16	20	0.23	U	17		0.34	U	0.20	U	29		UG/L
LC34-DPT1003	LC34-DPT1003-025.0-20231019	23	27	2.3	U	1200		5.7	J	2	U	1200		UG/L
LC34-DPT1003	LC34-DPT1003-032.0-20231019	30	34	0.23	U	47		0.34	U	0.20	U	4.3		UG/L
LC34-DPT1003	LC34-DPT1003-038.0-20231019	36	40	0.23	U	0.25	U	0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT1004	LC34-DPT1004-008.0-20231019	6	10	0.23	U	3.5		0.34	U	0.20	U	2.6		UG/L
LC34-DPT1004	LC34-DPT1004-013.0-20231019	11	15	0.23	U	19		0.34	U	0.20	U	23		UG/L
LC34-DPT1004	LC34-DPT1004-018.0-20231019	16	20	1.2	U	1100		1.7	U	1	U	840		UG/L
LC34-DPT1004	LC34-DPT1004-025.0-20231019	23	27	1.2	U	670		1.7	U	1	U	64		UG/L
LC34-DPT1004	LC34-DPT1004-032.0-20231019	30	34	0.23	U	0.25	U	0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT1004	LC34-DPT1004-038.0-20231019	36	40	0.23	U	0.25	U	0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT1005	LC34-DPT1005- 013.0-20231019	11	15	0.23	U	9.9		0.34	U	0.20	U	6.1		UG/L
LC34-DPT1005	LC34-DPT1005- 025.0-20231019	23	27	2.3	U	1400		23		2	U	480		UG/L
LC34-DPT1005	LC34-DPT1005-008.0-20231019	6	10	0.23	U	6.2		0.34	U	0.20	U	3		UG/L

Location	Sample	Top Depth	Bottom Depth	Freon		cDCE		tDCE		TCE		VC		Units
LC34-DPT1005	LC34-DPT1005-018.0-20231019	16	20	0.23	U	110		1.1		0.20	U	140		UG/L
LC34-DPT1005	LC34-DPT1005-032.0-20231019	30	34	0.23	U	0.25	U	0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT1005	LC34-DPT1005-038.0-20231019	36	40	0.23	U	0.25	U	0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT1006	LC34-DPT1006-008.0-20231020	6	10	0.23	U	7.7		0.34	U	0.20	U	7.4		UG/L
LC34-DPT1006	LC34-DPT1006-013.0-20231020	11	15	0.23	U	17		0.34	U	0.20	U	18		UG/L
LC34-DPT1006	LC34-DPT1006-018.0-20231020	16	20	0.46	U	230		0.96	J	0.40	U	260		UG/L
LC34-DPT1006	LC34-DPT1006-025.0-20231020	23	27	2.3	U	1300		20		2	U	460		UG/L
LC34-DPT1006	LC34-DPT1006-032.0-20231020	30	34	0.23	U	0.25	U	0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT1006	LC34-DPT1006-038.0-20231020	36	40	0.23	U	0.76	J	0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT1007	LC34-DPT1007-008.0 -20231020	6	10	0.23	U	6.4		0.34	U	0.20	U	5.2		UG/L
LC34-DPT1007	LC34-DPT1007-013.0-20231020	11	15	0.23	U	13		0.34	U	0.20	U	11		UG/L
LC34-DPT1007	LC34-DPT1007-018.0-20231020	16	20	0.46	U	160		0.68	U	0.40	U	270		UG/L
LC34-DPT1007	LC34-DPT1007-025.0-20231020	23	27	0.23	U	860	J	34		0.20	U	270	J	UG/L
LC34-DPT1007	LC34-DPT1007-032.0-20231020	30	34	0.23	U	0.25	U	0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT1007	LC34-DPT1007-038.0-20231020	36	40	0.23	U	0.25	U	0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT1008	LC34-DPT1008-008.0-20231020	6	10	0.23	U	9.2		0.34	U	0.20	U	7.3		UG/L
LC34-DPT1008	LC34-DPT1008-013.0-20231020	11	15	0.23	U	14		0.34	U	0.20	U	15		UG/L
LC34-DPT1008	LC34-DPT1008-018.0-20231020	16	20	0.46	U	58		0.68	U	0.40	U	180		UG/L
LC34-DPT1008	LC34-DPT1008-025.0-20231020	23	27	4.6	U	2000		16	J	4	U	1100		UG/L
LC34-DPT1008	LC34-DPT1008-032.0-20231020	30	34	0.23	U	84		0.34	U	0.20	U	44		UG/L
LC34-DPT1008	LC34-DPT1008-038.0-20231020	36	40	0.23	U	0.25	U	0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT1009	LC34-DPT1009-008.0-20231020	6	10	0.23	U	2.5		0.34	U	0.20	U	14		UG/L
LC34-DPT1009	LC34-DPT1009-013.0-20231020	11	15	0.23	U	5.2		0.34	U	0.20	U	43		UG/L
LC34-DPT1009	LC34-DPT1009-018.0-20231020	16	20	1.2	U	210		1.7	U	1	U	610		UG/L
LC34-DPT1009	LC34-DPT1009-025.0-20231020	23	27	1.2	U	170		1.7	U	1	U	730		UG/L
LC34-DPT1009	LC34-DPT1009-034.0-20231020	32	36	5.8	U	1900		97		5	U	3300		UG/L
LC34-DPT1009	LC34-DPT1009-038.0-20231020	36	40	46	U	33000		560		40	U	8000		UG/L
LC34-DPT1010	LC34-DPT1010-008.0-20231023	6	10	0.23	U	0.69	J	0.34	U	0.53	J	0.50	J	UG/L
LC34-DPT1010	LC34-DPT1010-013.0-20231023	11	15	0.23	U	0.99	J	0.34	U	0.20	U	2.9		UG/L
LC34-DPT1010	LC34-DPT1010-018.0-20231023	16	20	0.23	U	2		0.34	U	0.20	U	3.6		UG/L
LC34-DPT1010	LC34-DPT1010-025.0-20231023	23	27	0.23	U	4.7		0.34	U	0.20	U	12		UG/L
LC34-DPT1010	LC34-DPT1010-034.0-20231023	32	36	0.23	U	22		0.98	J	0.20	U	87		UG/L
LC34-DPT1010	LC34-DPT1010-038.0-20231023	36	40	46	U	20000		400		40	U	5100		UG/L
LC34-DPT1011	LC34-DPT1011-008.0-20231024	6	10	0.23	U	18		0.34	U	0.20	U	51		UG/L
LC34-DPT1011	LC34-DPT1011-013.0-20231024	11	15	0.23	U	17		0.34	U	0.20	U	86		UG/L
LC34-DPT1011	LC34-DPT1011-018.0-20231024	16	20	1.2	U	280		1.7	U	6.1		440		UG/L
LC34-DPT1011	LC34-DPT1011-025.0-20231024	23	27	1.2	U	460		13		3.3	J	320		UG/L
LC34-DPT1011	LC34-DPT1011-034.0-20231024	32	36	0.23	U	2.6		0.34	U	0.20	U	3		UG/L
LC34-DPT1011	LC34-DPT1011-038.0-20231024	36	40	0.23	U	0.25	U	0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT1012	LC34-DPT1012-008.0-20231025	6	10	0.23	U	16		0.34	U	0.20	U	40		UG/L
LC34-DPT1012	LC34-DPT1012-013.0-20231025	11	15	1.2	U	190		1.7	U	1	U	620		UG/L
LC34-DPT1012	LC34-DPT1012-018.0-20231025	16	20	1.2	U	150		2.6	J	1	U	890		UG/L
LC34-DPT1012	LC34-DPT1012-025.0-20231025	23	27	0.23	U	1.1		0.34	U	0.20	U	3.8		UG/L
LC34-DPT1012	LC34-DPT1012-034.0-20231025	32	36	0.23	U	3.6		0.34	U	0.20	U	180		UG/L
LC34-DPT1012	LC34-DPT1012-038.0-20231025	36	40	0.23	U	0.25	U	0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT1013	LC34-DPT1013-008.0-20231025	6	10	0.23	U	11		0.34	U	0.20	U	38		UG/L
LC34-DPT1013	LC34-DPT1013-013.0-20231025	11	15	0.23	U	93		0.34	U	0.20	U	170		UG/L
LC34-DPT1013	LC34-DPT1013-018.0-20231025	16	20	0.23	U	100		0.75	J	0.20	U	150		UG/L
LC34-DPT1013	LC34-DPT1013-025.0-20231025	23	27	0.23	U	0.42	J	0.34	U	0.20	U	4.1		UG/L

Location	Sample	Top Depth	Bottom Depth	Freon		cDCE		tDCE		TCE		VC		Units
LC34-DPT1013	LC34-DPT1013-034.0-20231025	32	36	0.23	U	2.8		0.34	U	0.20	U	59		UG/L
LC34-DPT1013	LC34-DPT1013-038.0-20231025	36	40	0.23	U	0.25	U	0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT1014	LC34-DPT1014-008.0-20231025	6	10	0.23	U	10		0.34	U	0.20	U	35		UG/L
LC34-DPT1014	LC34-DPT1014-013.0-20231025	11	15	0.23	U	200		0.52	J	0.20	U	220		UG/L
LC34-DPT1014	LC34-DPT1014-018.0-20231025	16	20	0.46	U	190		3.3		0.40	U	340		UG/L
LC34-DPT1014	LC34-DPT1014-025.0-20231025	23	27	0.23	U	3.1		0.34	U	0.20	U	29		UG/L
LC34-DPT1014	LC34-DPT1014-034.0-20231025	32	36	0.23	U	250		0.51	J	0.20	U	16		UG/L
LC34-DPT1014	LC34-DPT1014-038.0-20231025	36	40	0.23	U	0.31	J	0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT1015	LC34-DPT1015-008.0-20231025	6	10	0.46	U	180		0.77	J	0.40	U	25		UG/L
LC34-DPT1015	LC34-DPT1015-013.0-20231025	11	15	0.23	U	81		1.1		0.20	U	74		UG/L
LC34-DPT1015	LC34-DPT1015-018.0-20231025	16	20	1.2	U	18		9		1.2	J	28		UG/L
LC34-DPT1015	LC34-DPT1015-025.0-20231025	23	27	1.2	UJ	610	J	13	J	1	UJ	280	J	UG/L
LC34-DPT1015	LC34-DPT1015-034.0-20231025	32	36	0.46	U	28		0.68	U	0.40	U	24		UG/L
LC34-DPT1015	LC34-DPT1015-038.0 -20231025	36	40	0.23	U	0.25	U	0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT1016	LC34-DPT1016-008.0-20231025	6	10	0.23	U	25		0.34	U	0.20	U	35		UG/L
LC34-DPT1016	LC34-DPT1016-013.0-20231025	11	15	0.23	U	190		2.7		0.31	J	56		UG/L
LC34-DPT1016	LC34-DPT1016-018.0-20231025	16	20	1.2	U	380		7.6		1	U	150		UG/L
LC34-DPT1016	LC34-DPT1016-025.0-20231025	23	27	2.3	U	980		4.9	J	2	U	68		UG/L
LC34-DPT1016	LC34-DPT1016-034.0-20231026	32	36	0.23	U	90		0.34	U	0.20	U	73		UG/L
LC34-DPT1016	LC34-DPT1016-038.0-20231026	36	40	0.23	U	0.25	U	0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT1017	LC34-DPT1017-008.0-20231026	6	10	0.23	U	3.6		0.34	U	0.20	U	17		UG/L
LC34-DPT1017	LC34-DPT1017-013.0-20231026	11	15	0.46	U	160		0.68	U	2.1		79		UG/L
LC34-DPT1017	LC34-DPT1017-018.0-20231026	16	20	0.23	U	160		1.1		0.20	U	7.2		UG/L
LC34-DPT1017	LC34-DPT1017-025.0-20231026	23	27	0.23	U	30		0.55	J	0.20	U	38		UG/L
LC34-DPT1017	LC34-DPT1017-034.0-20231026	32	36	0.46	U	220		0.68	U	0.65	J	19		UG/L
LC34-DPT1017	LC34-DPT1017-038.0-20231026	36	40	0.23	U	1.6		0.34	U	0.20	U	0.40	U	UG/L
LC34-DPT1018	LC34-DPT1018-008.0-20231026	6	10	0.23	U	4.9		0.34	U	0.20	U	22		UG/L
LC34-DPT1018	LC34-DPT1018-013.0-20231026	11	15	0.23	U	25		0.34	U	0.20	U	60		UG/L
LC34-DPT1018	LC34-DPT1018-018.0-20231026	16	20	0.46	U	1.7	J	0.68	U	0.40	U	1.2	J	UG/L
LC34-DPT1018	LC34-DPT1018-025.0-20231026	23	27	0.23	U	4.6		0.34	U	0.20	U	61		UG/L
LC34-DPT1018	LC34-DPT1018-034.0-20231026	32	36	0.23	U	3.1		0.34	U	0.20	U	11		UG/L
LC34-DPT1018	LC34-DPT1018-038.0-20231026	36	40	0.23	U	0.25	U	0.34	U	0.20	U	0.40	U	UG/L

APPENDIX C

LABORATORY ANALYTICAL PACKAGES

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Date: 2/21/2023

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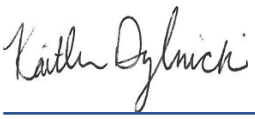
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Definitions/Glossary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27076-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
U	Indicates that the compound was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 670-27076-1

Laboratory: Eurofins Orlando

Narrative

Job Narrative
Client PM: Mark Jonnet
Project: NASA KSC LC34 DPT
Project Number: 112G08985
Job: 670-27076-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 9/20/2023 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.5°C

Receipt Exceptions
The following sample(s) was submitted for analysis; however, it was not listed on the Chain-of-Custody (COC):
LC34-DPT0917-038.0-20230919

GC/MS VOA
Method 8260D: The continuing calibration verification (CCV) analyzed in batch 680-799359 was outside the method criteria for the following analyte(s): 1,2,4-Trichlorobenzene, 1,2-Dibromo-3-Chloropropane, 2-Butanone (MEK), 2-Hexanone, 4-Methyl-2-pentanone, Chloromethane, Trichlorofluoromethane and Vinyl chloride. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8260D: The laboratory control sample (LCS) for analytical batch 680-799359 recovered outside control limits for the following analytes: 2-Butanone (MEK), 2-Hexanone, 4-Methyl-2-pentanone and Acetone. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D: The laboratory control sample duplicate (LCSD) for analytical batch 680-799359 recovered outside control limits for the following analytes: 2-Butanone (MEK). These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D: The following samples were diluted to bring the concentration of target analytes within the calibration range: LC34-DPT0918-025.0-20230919 (670-27076-27), LC34-DPT0919-013.0-20230919 (670-27076-31), LC34-DPT0919-018.0-20230919 (670-27076-32) and LC34-DPT0919-025.0-20230919 (670-27076-33). Elevated reporting limits (RLs) are provided.

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-799359.

Method 8260D: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for analytical batch 680-799359 recovered outside control limits for the following analyte(s): Trichlorofluoromethane. Trichlorofluoromethane has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260D: The continuing calibration verification (CCV) analyzed in batch 680-799355 was outside the method criteria for the following analyte(s): 1,2-Dibromo-3-Chloropropane, 2-Butanone (MEK), 2-Hexanone, Chloromethane, Dichlorodifluoromethane,

Job ID: 670-27076-1 (Continued)

Laboratory: Eurofins Orlando (Continued)

Trichlorofluoromethane and Vinyl chloride. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8260D: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for analytical batch 680-799355 recovered outside control limits for the following analyte(s): 2-Butanone (MEK), 2-Hexanone, 4-Methyl-2-pentanone, Acetone and Chloromethane. 2-Butanone (MEK), 2-Hexanone, 4-Methyl-2-pentanone, Acetone and Chloromethane have been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260D: The following samples were diluted to bring the concentration of target analytes within the calibration range: LC34-DPT0916-025.0-20230918 (670-27076-16) and LC34-DPT0917-025.0-20230919 (670-27076-22). Elevated reporting limits (RLs) are provided.

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-799355.

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-799638.

Method 8260D: The continuing calibration verification (CCV) analyzed in batch 680-799831 was outside the method criteria for the following analyte(s): 2-Hexanone, 4-Methyl-2-pentanone, Bromomethane, Chloroethane, Methyl acetate and Trichlorofluoromethane. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8260D: The method blank for preparation batch 680-799831 contained Toluene above the reporting limit (RL). None of the samples associated with this method blank contained the target compound; therefore, re-extraction and/or re-analysis of samples were not performed.

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-799831.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27076-1

Client Sample ID: LC34-DPT0914-008.0-20230918 — Lab Sample ID: 670-27076-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	13		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	50		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0914-013.0-20230918 — Lab Sample ID: 670-27076-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	31		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	110		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0914-018.0-20230918 — Lab Sample ID: 670-27076-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	33		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	130		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0914-025.0-20230918 — Lab Sample ID: 670-27076-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	0.65	I	1.0	0.33	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	6.7		1.0	0.34	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene - DL	540		10	2.5	ug/L	10		8260D	Total/NA
Vinyl chloride - DL	460		10	4.0	ug/L	10		8260D	Total/NA

Client Sample ID: LC34-DPT0914-034.0-20230918 — Lab Sample ID: 670-27076-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	1.7	I	2.0	0.43	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0914-038.0-20230918 — Lab Sample ID: 670-27076-6

No Detections.

Client Sample ID: LC34-DPT0915-008.0-20230918 — Lab Sample ID: 670-27076-7

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	48		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	160		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0915-013.0-20230918 — Lab Sample ID: 670-27076-8

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	87		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride - DL	350		5.0	2.0	ug/L	5		8260D	Total/NA

Client Sample ID: LC34-DPT0915-018.0-20230918 — Lab Sample ID: 670-27076-9

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	1.9		1.0	0.33	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	4.5		1.0	0.34	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene - DL	700		10	2.5	ug/L	10		8260D	Total/NA
Vinyl chloride - DL	690		10	4.0	ug/L	10		8260D	Total/NA

Client Sample ID: LC34-DPT0915-025.0-20230918 — Lab Sample ID: 670-27076-10

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
trans-1,2-Dichloroethene	1.1		1.0	0.34	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: LC34-DPT0915-025.0-20230918 (Continued) — Lab Sample ID: 670-27076-10

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	110		1.0	0.40	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene - DL	390		10	2.5	ug/L	10		8260D	Total/NA

Client Sample ID: LC34-DPT0915-034.0-20230918 — Lab Sample ID: 670-27076-11

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	1.3	I	2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.98	I	1.0	0.25	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0915-038.0-20230918 — Lab Sample ID: 670-27076-12

No Detections.

Client Sample ID: LC34-DPT0916-008.0-20230918 — Lab Sample ID: 670-27076-13

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	18		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	55		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0916-013.0-20230918 — Lab Sample ID: 670-27076-14

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	110		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride - DL	340		5.0	2.0	ug/L	5		8260D	Total/NA

Client Sample ID: LC34-DPT0916-018.0-20230918 — Lab Sample ID: 670-27076-15

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	190		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride - DL	590		5.0	2.0	ug/L	5		8260D	Total/NA

Client Sample ID: LC34-DPT0916-025.0-20230918 — Lab Sample ID: 670-27076-16

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1200		25	6.3	ug/L	25		8260D	Total/NA
trans-1,2-Dichloroethene	27		5.0	1.7	ug/L	5		8260D	Total/NA
Vinyl chloride	740		5.0	2.0	ug/L	5		8260D	Total/NA

Client Sample ID: LC34-DPT0916-034.0-20230918 — Lab Sample ID: 670-27076-17

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	1.6	I	2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	15		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	7.5		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0916-038.0-20230918 — Lab Sample ID: 670-27076-18

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	1.5	I	2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	1.2		1.0	0.25	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0917-008.0-20230919 — Lab Sample ID: 670-27076-19

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	44		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	130		1.0	0.40	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27076-1

Client Sample ID: LC34-DPT0917-013.0-20230919 — Lab Sample ID: 670-27076-20

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	0.92	I	1.0	0.33	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene - DL	300		10	2.5	ug/L	10		8260D	Total/NA
Vinyl chloride - DL	830		10	4.0	ug/L	10		8260D	Total/NA

Client Sample ID: LC34-DPT0917-018.0-20230919 — Lab Sample ID: 670-27076-21

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	2.6		1.0	0.33	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	4.2		1.0	0.34	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene - DL	770		25	6.3	ug/L	25		8260D	Total/NA
Vinyl chloride - DL	1100		25	10	ug/L	25		8260D	Total/NA

Client Sample ID: LC34-DPT0917-025.0-20230919 — Lab Sample ID: 670-27076-22

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	3.3	I	5.0	1.7	ug/L	5		8260D	Total/NA
trans-1,2-Dichloroethene	17		5.0	1.7	ug/L	5		8260D	Total/NA
Vinyl chloride	790		5.0	2.0	ug/L	5		8260D	Total/NA
cis-1,2-Dichloroethene - DL	1400		25	6.3	ug/L	25		8260D	Total/NA

Client Sample ID: LC34-DPT0917-034.0-20230919 — Lab Sample ID: 670-27076-23

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	1.1	I	2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	36		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	15		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0918-008.0-20230919 — Lab Sample ID: 670-27076-24

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	8.1		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	38		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0918-013.0-20230919 — Lab Sample ID: 670-27076-25

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	1.1		1.0	0.33	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	0.90	I	1.0	0.34	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene - DL	460		10	2.5	ug/L	10		8260D	Total/NA
Vinyl chloride - DL	1200		10	4.0	ug/L	10		8260D	Total/NA

Client Sample ID: LC34-DPT0918-018.0-20230919 — Lab Sample ID: 670-27076-26

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	6.4		1.0	0.33	ug/L	1		8260D	Total/NA
Dichlorodifluoromethane	2.8		1.0	0.36	ug/L	1		8260D	Total/NA
Toluene	0.35	I	1.0	0.25	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	87		1.0	0.34	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene - DL	2300		50	13	ug/L	50		8260D	Total/NA
Vinyl chloride - DL	2000		50	20	ug/L	50		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27076-1

Client Sample ID: LC34-DPT0918-025.0-20230919 — Lab Sample ID: 670-27076-27

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
trans-1,2-Dichloroethene	53		10	3.4	ug/L	10		8260D	Total/NA
cis-1,2-Dichloroethene - DL	2300		50	13	ug/L	50		8260D	Total/NA
Vinyl chloride - DL	1100		50	20	ug/L	50		8260D	Total/NA

Client Sample ID: LC34-DPT0918-034.0-20230919 — Lab Sample ID: 670-27076-28

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	1.1	I	2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	40		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	12		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0918-038.0-20230919 — Lab Sample ID: 670-27076-29

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.7		1.0	0.25	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0919-008.0-20230919 — Lab Sample ID: 670-27076-30

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	7.4		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	60		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0919-013.0-20230919 — Lab Sample ID: 670-27076-31

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	25		2.0	0.50	ug/L	2		8260D	Total/NA
Vinyl chloride	330		2.0	0.80	ug/L	2		8260D	Total/NA

Client Sample ID: LC34-DPT0919-018.0-20230919 — Lab Sample ID: 670-27076-32

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	3.4	I	5.0	1.7	ug/L	5		8260D	Total/NA
trans-1,2-Dichloroethene	53		5.0	1.7	ug/L	5		8260D	Total/NA
cis-1,2-Dichloroethene - DL	1700		25	6.3	ug/L	25		8260D	Total/NA
Vinyl chloride - DL	2200		25	10	ug/L	25		8260D	Total/NA

Client Sample ID: LC34-DPT0919-025.0-20230919 — Lab Sample ID: 670-27076-33

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	4.8	I	5.0	1.7	ug/L	5		8260D	Total/NA
trans-1,2-Dichloroethene	79		5.0	1.7	ug/L	5		8260D	Total/NA
cis-1,2-Dichloroethene - DL	2100		25	6.3	ug/L	25		8260D	Total/NA
Vinyl chloride - DL	2500		25	10	ug/L	25		8260D	Total/NA

Client Sample ID: LC34-DPT0917-038.0-20230919 — Lab Sample ID: 670-27076-34

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	1.0	I	2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.70	I	1.0	0.25	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27076-1

Client Sample ID: LC34-DPT0914-008.0-20230918
Date Collected: 09/18/23 10:20
Date Received: 09/20/23 08:00

Lab Sample ID: 670-27076-1
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			09/24/23 14:28	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			09/24/23 14:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			09/24/23 14:28	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			09/24/23 14:28	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			09/24/23 14:28	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			09/24/23 14:28	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			09/24/23 14:28	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			09/24/23 14:28	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			09/24/23 14:28	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 14:28	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			09/24/23 14:28	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			09/24/23 14:28	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 14:28	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 14:28	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			09/24/23 14:28	1
2-Hexanone	3.2	U J3	10	3.2	ug/L			09/24/23 14:28	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			09/24/23 14:28	1
Acetone	3.7	U J3	10	3.7	ug/L			09/24/23 14:28	1
Benzene	0.27	U	1.0	0.27	ug/L			09/24/23 14:28	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			09/24/23 14:28	1
Bromoform	0.59	U	1.0	0.59	ug/L			09/24/23 14:28	1
Bromomethane	3.7	U	5.0	3.7	ug/L			09/24/23 14:28	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			09/24/23 14:28	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			09/24/23 14:28	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			09/24/23 14:28	1
Chloroethane	4.6	U	5.0	4.6	ug/L			09/24/23 14:28	1
Chloroform	0.27	U	1.0	0.27	ug/L			09/24/23 14:28	1
Chloromethane	0.54	U J3	1.0	0.54	ug/L			09/24/23 14:28	1
cis-1,2-Dichloroethene	**13**		1.0	0.25	ug/L			09/24/23 14:28	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			09/24/23 14:28	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			09/24/23 14:28	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			09/24/23 14:28	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			09/24/23 14:28	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			09/24/23 14:28	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			09/24/23 14:28	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			09/24/23 14:28	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			09/24/23 14:28	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			09/24/23 14:28	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			09/24/23 14:28	1
o-Xylene	0.26	U	1.0	0.26	ug/L			09/24/23 14:28	1
Styrene	0.27	U	1.0	0.27	ug/L			09/24/23 14:28	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			09/24/23 14:28	1
Toluene	0.25	U	1.0	0.25	ug/L			09/24/23 14:28	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			09/24/23 14:28	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			09/24/23 14:28	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			09/24/23 14:28	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			09/24/23 14:28	1
Vinyl chloride	**50**		1.0	0.40	ug/L			09/24/23 14:28	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			09/24/23 14:28	1

Client Sample ID: LC34-DPT0914-008.0-20230918
Lab Sample ID: 670-27076-1
Date Collected: 09/18/23 10:20
Matrix: Water
Date Received: 09/20/23 08:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*60 - 124*		*09/24/23 14:28*	*1*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*09/24/23 14:28*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*09/24/23 14:28*	*1*
Toluene-d8 (Surr)	*115*		*70 - 130*		*09/24/23 14:28*	*1*

Client Sample ID: LC34-DPT0914-013.0-20230918
Lab Sample ID: 670-27076-2
Date Collected: 09/18/23 10:35
Matrix: Water
Date Received: 09/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			09/24/23 14:47	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			09/24/23 14:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			09/24/23 14:47	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			09/24/23 14:47	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			09/24/23 14:47	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			09/24/23 14:47	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			09/24/23 14:47	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			09/24/23 14:47	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			09/24/23 14:47	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 14:47	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			09/24/23 14:47	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			09/24/23 14:47	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 14:47	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 14:47	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			09/24/23 14:47	1
2-Hexanone	3.2	U J3	10	3.2	ug/L			09/24/23 14:47	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			09/24/23 14:47	1
Acetone	3.7	U J3	10	3.7	ug/L			09/24/23 14:47	1
Benzene	0.27	U	1.0	0.27	ug/L			09/24/23 14:47	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			09/24/23 14:47	1
Bromoform	0.59	U	1.0	0.59	ug/L			09/24/23 14:47	1
Bromomethane	3.7	U	5.0	3.7	ug/L			09/24/23 14:47	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			09/24/23 14:47	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			09/24/23 14:47	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			09/24/23 14:47	1
Chloroethane	4.6	U	5.0	4.6	ug/L			09/24/23 14:47	1
Chloroform	0.27	U	1.0	0.27	ug/L			09/24/23 14:47	1
Chloromethane	0.54	U J3	1.0	0.54	ug/L			09/24/23 14:47	1
cis-1,2-Dichloroethene	**31**		1.0	0.25	ug/L			09/24/23 14:47	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			09/24/23 14:47	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			09/24/23 14:47	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			09/24/23 14:47	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			09/24/23 14:47	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			09/24/23 14:47	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			09/24/23 14:47	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			09/24/23 14:47	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			09/24/23 14:47	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			09/24/23 14:47	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			09/24/23 14:47	1

Client Sample ID: LC34-DPT0914-013.0-20230918
Lab Sample ID: 670-27076-2
Date Collected: 09/18/23 10:35
Matrix: Water
Date Received: 09/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	0.26	U	1.0	0.26	ug/L			09/24/23 14:47	1
Styrene	0.27	U	1.0	0.27	ug/L			09/24/23 14:47	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			09/24/23 14:47	1
Toluene	0.25	U	1.0	0.25	ug/L			09/24/23 14:47	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			09/24/23 14:47	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			09/24/23 14:47	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			09/24/23 14:47	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			09/24/23 14:47	1
Vinyl chloride	**110**		1.0	0.40	ug/L			09/24/23 14:47	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			09/24/23 14:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*60 - 124*		*09/24/23 14:47*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*09/24/23 14:47*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*09/24/23 14:47*	*1*
Toluene-d8 (Surr)	*117*		*70 - 130*		*09/24/23 14:47*	*1*

Client Sample ID: LC34-DPT0914-018.0-20230918
Lab Sample ID: 670-27076-3
Date Collected: 09/18/23 10:50
Matrix: Water
Date Received: 09/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			09/24/23 15:06	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			09/24/23 15:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			09/24/23 15:06	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			09/24/23 15:06	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			09/24/23 15:06	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			09/24/23 15:06	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			09/24/23 15:06	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			09/24/23 15:06	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			09/24/23 15:06	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 15:06	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			09/24/23 15:06	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			09/24/23 15:06	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 15:06	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 15:06	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			09/24/23 15:06	1
2-Hexanone	3.2	U J3	10	3.2	ug/L			09/24/23 15:06	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			09/24/23 15:06	1
Acetone	3.7	U J3	10	3.7	ug/L			09/24/23 15:06	1
Benzene	0.27	U	1.0	0.27	ug/L			09/24/23 15:06	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			09/24/23 15:06	1
Bromoform	0.59	U	1.0	0.59	ug/L			09/24/23 15:06	1
Bromomethane	3.7	U	5.0	3.7	ug/L			09/24/23 15:06	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			09/24/23 15:06	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			09/24/23 15:06	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			09/24/23 15:06	1
Chloroethane	4.6	U	5.0	4.6	ug/L			09/24/23 15:06	1
Chloroform	0.27	U	1.0	0.27	ug/L			09/24/23 15:06	1

Client Sample ID: LC34-DPT0914-018.0-20230918

Lab Sample ID: 670-27076-3

Date Collected: 09/18/23 10:50

Matrix: Water

Date Received: 09/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	0.54	U J3	1.0	0.54	ug/L			09/24/23 15:06	1
cis-1,2-Dichloroethene	**33**		1.0	0.25	ug/L			09/24/23 15:06	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			09/24/23 15:06	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			09/24/23 15:06	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			09/24/23 15:06	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			09/24/23 15:06	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			09/24/23 15:06	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			09/24/23 15:06	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			09/24/23 15:06	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			09/24/23 15:06	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			09/24/23 15:06	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			09/24/23 15:06	1
o-Xylene	0.26	U	1.0	0.26	ug/L			09/24/23 15:06	1
Styrene	0.27	U	1.0	0.27	ug/L			09/24/23 15:06	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			09/24/23 15:06	1
Toluene	0.25	U	1.0	0.25	ug/L			09/24/23 15:06	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			09/24/23 15:06	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			09/24/23 15:06	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			09/24/23 15:06	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			09/24/23 15:06	1
Vinyl chloride	**130**		1.0	0.40	ug/L			09/24/23 15:06	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			09/24/23 15:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*60 - 124*		*09/24/23 15:06*	*1*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*		*09/24/23 15:06*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*09/24/23 15:06*	*1*
Toluene-d8 (Surr)	*115*		*70 - 130*		*09/24/23 15:06*	*1*

Client Sample ID: LC34-DPT0914-025.0-20230918

Lab Sample ID: 670-27076-4

Date Collected: 09/18/23 11:05

Matrix: Water

Date Received: 09/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			09/24/23 15:25	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			09/24/23 15:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			09/24/23 15:25	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			09/24/23 15:25	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			09/24/23 15:25	1
1,1-Dichloroethene	**0.65**	**I**	1.0	0.33	ug/L			09/24/23 15:25	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			09/24/23 15:25	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			09/24/23 15:25	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			09/24/23 15:25	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 15:25	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			09/24/23 15:25	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			09/24/23 15:25	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 15:25	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 15:25	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			09/24/23 15:25	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27076-1

Client Sample ID: LC34-DPT0914-025.0-20230918
Date Collected: 09/18/23 11:05
Date Received: 09/20/23 08:00

Lab Sample ID: 670-27076-4
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	3.2	U J3	10	3.2	ug/L			09/24/23 15:25	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			09/24/23 15:25	1
Acetone	3.7	U J3	10	3.7	ug/L			09/24/23 15:25	1
Benzene	0.27	U	1.0	0.27	ug/L			09/24/23 15:25	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			09/24/23 15:25	1
Bromoform	0.59	U	1.0	0.59	ug/L			09/24/23 15:25	1
Bromomethane	3.7	U	5.0	3.7	ug/L			09/24/23 15:25	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			09/24/23 15:25	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			09/24/23 15:25	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			09/24/23 15:25	1
Chloroethane	4.6	U	5.0	4.6	ug/L			09/24/23 15:25	1
Chloroform	0.27	U	1.0	0.27	ug/L			09/24/23 15:25	1
Chloromethane	0.54	U J3	1.0	0.54	ug/L			09/24/23 15:25	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			09/24/23 15:25	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			09/24/23 15:25	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			09/24/23 15:25	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			09/24/23 15:25	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			09/24/23 15:25	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			09/24/23 15:25	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			09/24/23 15:25	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			09/24/23 15:25	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			09/24/23 15:25	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			09/24/23 15:25	1
o-Xylene	0.26	U	1.0	0.26	ug/L			09/24/23 15:25	1
Styrene	0.27	U	1.0	0.27	ug/L			09/24/23 15:25	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			09/24/23 15:25	1
Toluene	0.25	U	1.0	0.25	ug/L			09/24/23 15:25	1
trans-1,2-Dichloroethene	**6.7**		1.0	0.34	ug/L			09/24/23 15:25	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			09/24/23 15:25	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			09/24/23 15:25	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			09/24/23 15:25	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			09/24/23 15:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*		*09/24/23 15:25*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*09/24/23 15:25*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*09/24/23 15:25*	*1*
Toluene-d8 (Surr)	*112*		*70 - 130*		*09/24/23 15:25*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**540**		10	2.5	ug/L			09/26/23 12:24	10
Vinyl chloride	**460**		10	4.0	ug/L			09/26/23 12:24	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*60 - 124*		*09/26/23 12:24*	*10*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*		*09/26/23 12:24*	*10*
Dibromofluoromethane (Surr)	*120*		*70 - 130*		*09/26/23 12:24*	*10*
Toluene-d8 (Surr)	*98*		*70 - 130*		*09/26/23 12:24*	*10*

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27076-1

Client Sample ID: LC34-DPT0914-034.0-20230918
Date Collected: 09/18/23 11:20
Date Received: 09/20/23 08:00

Lab Sample ID: 670-27076-5
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			09/24/23 15:44	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			09/24/23 15:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			09/24/23 15:44	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			09/24/23 15:44	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			09/24/23 15:44	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			09/24/23 15:44	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			09/24/23 15:44	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			09/24/23 15:44	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			09/24/23 15:44	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 15:44	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			09/24/23 15:44	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			09/24/23 15:44	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 15:44	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 15:44	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			09/24/23 15:44	1
2-Hexanone	3.2	U J3	10	3.2	ug/L			09/24/23 15:44	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			09/24/23 15:44	1
Acetone	3.7	U J3	10	3.7	ug/L			09/24/23 15:44	1
Benzene	0.27	U	1.0	0.27	ug/L			09/24/23 15:44	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			09/24/23 15:44	1
Bromoform	0.59	U	1.0	0.59	ug/L			09/24/23 15:44	1
Bromomethane	3.7	U	5.0	3.7	ug/L			09/24/23 15:44	1
Carbon disulfide	**1.7**	**I**	2.0	0.43	ug/L			09/24/23 15:44	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			09/24/23 15:44	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			09/24/23 15:44	1
Chloroethane	4.6	U	5.0	4.6	ug/L			09/24/23 15:44	1
Chloroform	0.27	U	1.0	0.27	ug/L			09/24/23 15:44	1
Chloromethane	0.54	U J3	1.0	0.54	ug/L			09/24/23 15:44	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			09/26/23 12:43	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			09/24/23 15:44	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			09/24/23 15:44	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			09/24/23 15:44	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			09/24/23 15:44	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			09/24/23 15:44	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			09/24/23 15:44	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			09/24/23 15:44	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			09/24/23 15:44	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			09/24/23 15:44	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			09/24/23 15:44	1
o-Xylene	0.26	U	1.0	0.26	ug/L			09/24/23 15:44	1
Styrene	0.27	U	1.0	0.27	ug/L			09/24/23 15:44	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			09/24/23 15:44	1
Toluene	0.25	U	1.0	0.25	ug/L			09/24/23 15:44	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			09/24/23 15:44	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			09/24/23 15:44	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			09/24/23 15:44	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			09/24/23 15:44	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			09/24/23 15:44	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			09/24/23 15:44	1

Client Sample ID: LC34-DPT0914-034.0-20230918

Lab Sample ID: 670-27076-5

Date Collected: 09/18/23 11:20

Matrix: Water

Date Received: 09/20/23 08:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*60 - 124*		*09/24/23 15:44*	*1*
1,2-Dichloroethane-d4 (Surr)	*115*		*60 - 124*		*09/26/23 12:43*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*09/24/23 15:44*	*1*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*		*09/26/23 12:43*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*09/24/23 15:44*	*1*
Dibromofluoromethane (Surr)	*121*		*70 - 130*		*09/26/23 12:43*	*1*
Toluene-d8 (Surr)	*115*		*70 - 130*		*09/24/23 15:44*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*09/26/23 12:43*	*1*

Client Sample ID: LC34-DPT0914-038.0-20230918

Lab Sample ID: 670-27076-6

Date Collected: 09/18/23 11:40

Matrix: Water

Date Received: 09/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			09/24/23 16:03	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			09/24/23 16:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			09/24/23 16:03	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			09/24/23 16:03	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			09/24/23 16:03	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			09/24/23 16:03	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			09/24/23 16:03	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			09/24/23 16:03	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			09/24/23 16:03	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 16:03	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			09/24/23 16:03	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			09/24/23 16:03	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 16:03	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 16:03	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			09/24/23 16:03	1
2-Hexanone	3.2	U J3	10	3.2	ug/L			09/24/23 16:03	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			09/24/23 16:03	1
Acetone	3.7	U J3	10	3.7	ug/L			09/24/23 16:03	1
Benzene	0.27	U	1.0	0.27	ug/L			09/24/23 16:03	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			09/24/23 16:03	1
Bromoform	0.59	U	1.0	0.59	ug/L			09/24/23 16:03	1
Bromomethane	3.7	U	5.0	3.7	ug/L			09/24/23 16:03	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			09/24/23 16:03	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			09/24/23 16:03	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			09/24/23 16:03	1
Chloroethane	4.6	U	5.0	4.6	ug/L			09/24/23 16:03	1
Chloroform	0.27	U	1.0	0.27	ug/L			09/24/23 16:03	1
Chloromethane	0.54	U J3	1.0	0.54	ug/L			09/24/23 16:03	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			09/24/23 16:03	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			09/24/23 16:03	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			09/24/23 16:03	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			09/24/23 16:03	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			09/24/23 16:03	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			09/24/23 16:03	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			09/24/23 16:03	1

Client Sample ID: LC34-DPT0914-038.0-20230918

Lab Sample ID: 670-27076-6

Date Collected: 09/18/23 11:40
Matrix: Water
Date Received: 09/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			09/24/23 16:03	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			09/24/23 16:03	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			09/24/23 16:03	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			09/24/23 16:03	1
o-Xylene	0.26	U	1.0	0.26	ug/L			09/24/23 16:03	1
Styrene	0.27	U	1.0	0.27	ug/L			09/24/23 16:03	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			09/24/23 16:03	1
Toluene	0.25	U	1.0	0.25	ug/L			09/24/23 16:03	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			09/24/23 16:03	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			09/24/23 16:03	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			09/24/23 16:03	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			09/24/23 16:03	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			09/24/23 16:03	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			09/24/23 16:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*60 - 124*		*09/24/23 16:03*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*09/24/23 16:03*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*09/24/23 16:03*	*1*
Toluene-d8 (Surr)	*111*		*70 - 130*		*09/24/23 16:03*	*1*

Client Sample ID: LC34-DPT0915-008.0-20230918

Lab Sample ID: 670-27076-7

Date Collected: 09/18/23 12:30
Matrix: Water
Date Received: 09/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			09/24/23 16:22	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			09/24/23 16:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			09/24/23 16:22	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			09/24/23 16:22	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			09/24/23 16:22	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			09/24/23 16:22	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			09/24/23 16:22	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			09/24/23 16:22	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			09/24/23 16:22	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 16:22	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			09/24/23 16:22	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			09/24/23 16:22	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 16:22	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 16:22	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			09/24/23 16:22	1
2-Hexanone	3.2	U J3	10	3.2	ug/L			09/24/23 16:22	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			09/24/23 16:22	1
Acetone	3.7	U J3	10	3.7	ug/L			09/24/23 16:22	1
Benzene	0.27	U	1.0	0.27	ug/L			09/24/23 16:22	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			09/24/23 16:22	1
Bromoform	0.59	U	1.0	0.59	ug/L			09/24/23 16:22	1
Bromomethane	3.7	U	5.0	3.7	ug/L			09/24/23 16:22	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			09/24/23 16:22	1

Client Sample ID: LC34-DPT0915-008.0-20230918

Lab Sample ID: 670-27076-7

Date Collected: 09/18/23 12:30

Matrix: Water

Date Received: 09/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			09/24/23 16:22	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			09/24/23 16:22	1
Chloroethane	4.6	U	5.0	4.6	ug/L			09/24/23 16:22	1
Chloroform	0.27	U	1.0	0.27	ug/L			09/24/23 16:22	1
Chloromethane	0.54	U J3	1.0	0.54	ug/L			09/24/23 16:22	1
cis-1,2-Dichloroethene	**48**		1.0	0.25	ug/L			09/24/23 16:22	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			09/24/23 16:22	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			09/24/23 16:22	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			09/24/23 16:22	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			09/24/23 16:22	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			09/24/23 16:22	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			09/24/23 16:22	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			09/24/23 16:22	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			09/24/23 16:22	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			09/24/23 16:22	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			09/24/23 16:22	1
o-Xylene	0.26	U	1.0	0.26	ug/L			09/24/23 16:22	1
Styrene	0.27	U	1.0	0.27	ug/L			09/24/23 16:22	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			09/24/23 16:22	1
Toluene	0.25	U	1.0	0.25	ug/L			09/24/23 16:22	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			09/24/23 16:22	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			09/24/23 16:22	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			09/24/23 16:22	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			09/24/23 16:22	1
Vinyl chloride	**160**		1.0	0.40	ug/L			09/24/23 16:22	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			09/24/23 16:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*		*09/24/23 16:22*	*1*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*09/24/23 16:22*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*09/24/23 16:22*	*1*
Toluene-d8 (Surr)	*116*		*70 - 130*		*09/24/23 16:22*	*1*

Client Sample ID: LC34-DPT0915-013.0-20230918

Lab Sample ID: 670-27076-8

Date Collected: 09/18/23 12:45

Matrix: Water

Date Received: 09/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			09/24/23 16:41	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			09/24/23 16:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			09/24/23 16:41	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			09/24/23 16:41	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			09/24/23 16:41	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			09/24/23 16:41	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			09/24/23 16:41	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			09/24/23 16:41	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			09/24/23 16:41	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 16:41	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			09/24/23 16:41	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27076-1

Client Sample ID: LC34-DPT0915-013.0-20230918
Date Collected: 09/18/23 12:45
Date Received: 09/20/23 08:00

Lab Sample ID: 670-27076-8
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			09/24/23 16:41	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 16:41	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 16:41	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			09/24/23 16:41	1
2-Hexanone	3.2	U J3	10	3.2	ug/L			09/24/23 16:41	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			09/24/23 16:41	1
Acetone	3.7	U J3	10	3.7	ug/L			09/24/23 16:41	1
Benzene	0.27	U	1.0	0.27	ug/L			09/24/23 16:41	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			09/24/23 16:41	1
Bromoform	0.59	U	1.0	0.59	ug/L			09/24/23 16:41	1
Bromomethane	3.7	U	5.0	3.7	ug/L			09/24/23 16:41	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			09/24/23 16:41	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			09/24/23 16:41	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			09/24/23 16:41	1
Chloroethane	4.6	U	5.0	4.6	ug/L			09/24/23 16:41	1
Chloroform	0.27	U	1.0	0.27	ug/L			09/24/23 16:41	1
Chloromethane	0.54	U J3	1.0	0.54	ug/L			09/24/23 16:41	1
cis-1,2-Dichloroethene	**87**		1.0	0.25	ug/L			09/24/23 16:41	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			09/24/23 16:41	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			09/24/23 16:41	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			09/24/23 16:41	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			09/24/23 16:41	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			09/24/23 16:41	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			09/24/23 16:41	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			09/24/23 16:41	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			09/24/23 16:41	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			09/24/23 16:41	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			09/24/23 16:41	1
o-Xylene	0.26	U	1.0	0.26	ug/L			09/24/23 16:41	1
Styrene	0.27	U	1.0	0.27	ug/L			09/24/23 16:41	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			09/24/23 16:41	1
Toluene	0.25	U	1.0	0.25	ug/L			09/24/23 16:41	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			09/24/23 16:41	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			09/24/23 16:41	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			09/24/23 16:41	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			09/24/23 16:41	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			09/24/23 16:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*60 - 124*		*09/24/23 16:41*	*1*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*09/24/23 16:41*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*09/24/23 16:41*	*1*
Toluene-d8 (Surr)	*113*		*70 - 130*		*09/24/23 16:41*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	**350**		5.0	2.0	ug/L			09/26/23 13:04	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*60 - 124*		*09/26/23 13:04*	*5*

Client Sample ID: LC34-DPT0915-013.0-20230918
Lab Sample ID: 670-27076-8
Date Collected: 09/18/23 12:45
Matrix: Water
Date Received: 09/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*		*09/26/23 13:04*	*5*
Dibromofluoromethane (Surr)	*119*		*70 - 130*		*09/26/23 13:04*	*5*
Toluene-d8 (Surr)	*95*		*70 - 130*		*09/26/23 13:04*	*5*

Client Sample ID: LC34-DPT0915-018.0-20230918
Lab Sample ID: 670-27076-9
Date Collected: 09/18/23 13:00
Matrix: Water
Date Received: 09/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			09/24/23 17:00	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			09/24/23 17:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			09/24/23 17:00	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			09/24/23 17:00	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			09/24/23 17:00	1
1,1-Dichloroethene	**1.9**		1.0	0.33	ug/L			09/24/23 17:00	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			09/24/23 17:00	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			09/24/23 17:00	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			09/24/23 17:00	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 17:00	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			09/24/23 17:00	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			09/24/23 17:00	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 17:00	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 17:00	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			09/24/23 17:00	1
2-Hexanone	3.2	U J3	10	3.2	ug/L			09/24/23 17:00	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			09/24/23 17:00	1
Acetone	3.7	U J3	10	3.7	ug/L			09/24/23 17:00	1
Benzene	0.27	U	1.0	0.27	ug/L			09/24/23 17:00	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			09/24/23 17:00	1
Bromoform	0.59	U	1.0	0.59	ug/L			09/24/23 17:00	1
Bromomethane	3.7	U	5.0	3.7	ug/L			09/24/23 17:00	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			09/24/23 17:00	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			09/24/23 17:00	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			09/24/23 17:00	1
Chloroethane	4.6	U	5.0	4.6	ug/L			09/24/23 17:00	1
Chloroform	0.27	U	1.0	0.27	ug/L			09/24/23 17:00	1
Chloromethane	0.54	U J3	1.0	0.54	ug/L			09/24/23 17:00	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			09/24/23 17:00	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			09/24/23 17:00	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			09/24/23 17:00	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			09/24/23 17:00	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			09/24/23 17:00	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			09/24/23 17:00	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			09/24/23 17:00	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			09/24/23 17:00	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			09/24/23 17:00	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			09/24/23 17:00	1
o-Xylene	0.26	U	1.0	0.26	ug/L			09/24/23 17:00	1

Client Sample ID: LC34-DPT0915-018.0-20230918

Lab Sample ID: 670-27076-9

Date Collected: 09/18/23 13:00

Matrix: Water

Date Received: 09/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.27	U	1.0	0.27	ug/L			09/24/23 17:00	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			09/24/23 17:00	1
Toluene	0.25	U	1.0	0.25	ug/L			09/24/23 17:00	1
trans-1,2-Dichloroethene	**4.5**		1.0	0.34	ug/L			09/24/23 17:00	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			09/24/23 17:00	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			09/24/23 17:00	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			09/24/23 17:00	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			09/24/23 17:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*60 - 124*		*09/24/23 17:00*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*09/24/23 17:00*	*1*
Dibromofluoromethane (Surr)	*106*		*70 - 130*		*09/24/23 17:00*	*1*
Toluene-d8 (Surr)	*113*		*70 - 130*		*09/24/23 17:00*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**700**		10	2.5	ug/L			09/26/23 13:26	10
Vinyl chloride	**690**		10	4.0	ug/L			09/26/23 13:26	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*118*		*60 - 124*		*09/26/23 13:26*	*10*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*		*09/26/23 13:26*	*10*
Dibromofluoromethane (Surr)	*119*		*70 - 130*		*09/26/23 13:26*	*10*
Toluene-d8 (Surr)	*95*		*70 - 130*		*09/26/23 13:26*	*10*

Client Sample ID: LC34-DPT0915-025.0-20230918

Lab Sample ID: 670-27076-10

Date Collected: 09/18/23 13:15

Matrix: Water

Date Received: 09/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			09/24/23 17:20	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			09/24/23 17:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			09/24/23 17:20	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			09/24/23 17:20	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			09/24/23 17:20	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			09/24/23 17:20	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			09/24/23 17:20	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			09/24/23 17:20	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			09/24/23 17:20	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 17:20	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			09/24/23 17:20	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			09/24/23 17:20	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 17:20	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 17:20	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			09/24/23 17:20	1
2-Hexanone	3.2	U J3	10	3.2	ug/L			09/24/23 17:20	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			09/24/23 17:20	1
Acetone	3.7	U J3	10	3.7	ug/L			09/24/23 17:20	1
Benzene	0.27	U	1.0	0.27	ug/L			09/24/23 17:20	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27076-1

Client Sample ID: LC34-DPT0915-025.0-20230918
Date Collected: 09/18/23 13:15
Date Received: 09/20/23 08:00

Lab Sample ID: 670-27076-10
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			09/24/23 17:20	1
Bromoform	0.59	U	1.0	0.59	ug/L			09/24/23 17:20	1
Bromomethane	3.7	U	5.0	3.7	ug/L			09/24/23 17:20	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			09/24/23 17:20	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			09/24/23 17:20	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			09/24/23 17:20	1
Chloroethane	4.6	U	5.0	4.6	ug/L			09/24/23 17:20	1
Chloroform	0.27	U	1.0	0.27	ug/L			09/24/23 17:20	1
Chloromethane	0.54	U J3	1.0	0.54	ug/L			09/24/23 17:20	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			09/24/23 17:20	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			09/24/23 17:20	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			09/24/23 17:20	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			09/24/23 17:20	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			09/24/23 17:20	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			09/24/23 17:20	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			09/24/23 17:20	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			09/24/23 17:20	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			09/24/23 17:20	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			09/24/23 17:20	1
o-Xylene	0.26	U	1.0	0.26	ug/L			09/24/23 17:20	1
Styrene	0.27	U	1.0	0.27	ug/L			09/24/23 17:20	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			09/24/23 17:20	1
Toluene	0.25	U	1.0	0.25	ug/L			09/24/23 17:20	1
trans-1,2-Dichloroethene	**1.1**		1.0	0.34	ug/L			09/24/23 17:20	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			09/24/23 17:20	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			09/24/23 17:20	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			09/24/23 17:20	1
Vinyl chloride	**110**		1.0	0.40	ug/L			09/24/23 17:20	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			09/24/23 17:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*		*09/24/23 17:20*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*09/24/23 17:20*	*1*
Dibromofluoromethane (Surr)	*105*		*70 - 130*		*09/24/23 17:20*	*1*
Toluene-d8 (Surr)	*114*		*70 - 130*		*09/24/23 17:20*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**390**		10	2.5	ug/L			09/26/23 13:47	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*60 - 124*		*09/26/23 13:47*	*10*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*		*09/26/23 13:47*	*10*
Dibromofluoromethane (Surr)	*121*		*70 - 130*		*09/26/23 13:47*	*10*
Toluene-d8 (Surr)	*98*		*70 - 130*		*09/26/23 13:47*	*10*

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27076-1

Client Sample ID: LC34-DPT0915-034.0-20230918
Date Collected: 09/18/23 13:30
Date Received: 09/20/23 08:00

Lab Sample ID: 670-27076-11
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			09/24/23 17:39	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			09/24/23 17:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			09/24/23 17:39	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			09/24/23 17:39	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			09/24/23 17:39	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			09/24/23 17:39	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			09/24/23 17:39	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			09/24/23 17:39	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			09/24/23 17:39	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 17:39	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			09/24/23 17:39	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			09/24/23 17:39	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 17:39	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 17:39	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			09/24/23 17:39	1
2-Hexanone	3.2	U J3	10	3.2	ug/L			09/24/23 17:39	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			09/24/23 17:39	1
Acetone	3.7	U J3	10	3.7	ug/L			09/24/23 17:39	1
Benzene	0.27	U	1.0	0.27	ug/L			09/24/23 17:39	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			09/24/23 17:39	1
Bromoform	0.59	U	1.0	0.59	ug/L			09/24/23 17:39	1
Bromomethane	3.7	U	5.0	3.7	ug/L			09/24/23 17:39	1
Carbon disulfide	**1.3**	**I**	2.0	0.43	ug/L			09/24/23 17:39	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			09/24/23 17:39	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			09/24/23 17:39	1
Chloroethane	4.6	U	5.0	4.6	ug/L			09/24/23 17:39	1
Chloroform	0.27	U	1.0	0.27	ug/L			09/24/23 17:39	1
Chloromethane	0.54	U J3	1.0	0.54	ug/L			09/24/23 17:39	1
cis-1,2-Dichloroethene	**0.98**	**I**	1.0	0.25	ug/L			09/26/23 14:06	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			09/24/23 17:39	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			09/24/23 17:39	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			09/24/23 17:39	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			09/24/23 17:39	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			09/24/23 17:39	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			09/24/23 17:39	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			09/24/23 17:39	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			09/24/23 17:39	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			09/24/23 17:39	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			09/24/23 17:39	1
o-Xylene	0.26	U	1.0	0.26	ug/L			09/24/23 17:39	1
Styrene	0.27	U	1.0	0.27	ug/L			09/24/23 17:39	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			09/24/23 17:39	1
Toluene	0.25	U	1.0	0.25	ug/L			09/24/23 17:39	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			09/24/23 17:39	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			09/24/23 17:39	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			09/24/23 17:39	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			09/24/23 17:39	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			09/24/23 17:39	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			09/24/23 17:39	1

Client Sample ID: LC34-DPT0915-034.0-20230918

Lab Sample ID: 670-27076-11

Date Collected: 09/18/23 13:30

Matrix: Water

Date Received: 09/20/23 08:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*60 - 124*		*09/24/23 17:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*115*		*60 - 124*		*09/26/23 14:06*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*09/24/23 17:39*	*1*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*		*09/26/23 14:06*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*09/24/23 17:39*	*1*
Dibromofluoromethane (Surr)	*121*		*70 - 130*		*09/26/23 14:06*	*1*
Toluene-d8 (Surr)	*112*		*70 - 130*		*09/24/23 17:39*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*09/26/23 14:06*	*1*

Client Sample ID: LC34-DPT0915-038.0-20230918

Lab Sample ID: 670-27076-12

Date Collected: 09/18/23 13:50

Matrix: Water

Date Received: 09/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			09/24/23 17:58	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			09/24/23 17:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			09/24/23 17:58	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			09/24/23 17:58	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			09/24/23 17:58	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			09/24/23 17:58	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			09/24/23 17:58	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			09/24/23 17:58	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			09/24/23 17:58	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 17:58	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			09/24/23 17:58	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			09/24/23 17:58	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 17:58	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 17:58	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			09/24/23 17:58	1
2-Hexanone	3.2	U J3	10	3.2	ug/L			09/24/23 17:58	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			09/24/23 17:58	1
Acetone	3.7	U J3	10	3.7	ug/L			09/24/23 17:58	1
Benzene	0.27	U	1.0	0.27	ug/L			09/24/23 17:58	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			09/24/23 17:58	1
Bromoform	0.59	U	1.0	0.59	ug/L			09/24/23 17:58	1
Bromomethane	3.7	U	5.0	3.7	ug/L			09/24/23 17:58	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			09/24/23 17:58	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			09/24/23 17:58	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			09/24/23 17:58	1
Chloroethane	4.6	U	5.0	4.6	ug/L			09/24/23 17:58	1
Chloroform	0.27	U	1.0	0.27	ug/L			09/24/23 17:58	1
Chloromethane	0.54	U J3	1.0	0.54	ug/L			09/24/23 17:58	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			09/24/23 17:58	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			09/24/23 17:58	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			09/24/23 17:58	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			09/24/23 17:58	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			09/24/23 17:58	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			09/24/23 17:58	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			09/24/23 17:58	1

Client Sample ID: LC34-DPT0915-038.0-20230918

Lab Sample ID: 670-27076-12

Date Collected: 09/18/23 13:50

Matrix: Water

Date Received: 09/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			09/24/23 17:58	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			09/24/23 17:58	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			09/24/23 17:58	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			09/24/23 17:58	1
o-Xylene	0.26	U	1.0	0.26	ug/L			09/24/23 17:58	1
Styrene	0.27	U	1.0	0.27	ug/L			09/24/23 17:58	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			09/24/23 17:58	1
Toluene	0.25	U	1.0	0.25	ug/L			09/24/23 17:58	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			09/24/23 17:58	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			09/24/23 17:58	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			09/24/23 17:58	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			09/24/23 17:58	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			09/24/23 17:58	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			09/24/23 17:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*		*09/24/23 17:58*	*1*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*09/24/23 17:58*	*1*
Dibromofluoromethane (Surr)	*106*		*70 - 130*		*09/24/23 17:58*	*1*
Toluene-d8 (Surr)	*112*		*70 - 130*		*09/24/23 17:58*	*1*

Client Sample ID: LC34-DPT0916-008.0-20230918

Lab Sample ID: 670-27076-13

Date Collected: 09/18/23 15:00

Matrix: Water

Date Received: 09/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			09/24/23 18:17	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			09/24/23 18:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			09/24/23 18:17	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			09/24/23 18:17	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			09/24/23 18:17	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			09/24/23 18:17	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			09/24/23 18:17	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			09/24/23 18:17	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			09/24/23 18:17	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 18:17	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			09/24/23 18:17	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			09/24/23 18:17	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 18:17	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 18:17	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			09/24/23 18:17	1
2-Hexanone	3.2	U J3	10	3.2	ug/L			09/24/23 18:17	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			09/24/23 18:17	1
Acetone	3.7	U J3	10	3.7	ug/L			09/24/23 18:17	1
Benzene	0.27	U	1.0	0.27	ug/L			09/24/23 18:17	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			09/24/23 18:17	1
Bromoform	0.59	U	1.0	0.59	ug/L			09/24/23 18:17	1
Bromomethane	3.7	U	5.0	3.7	ug/L			09/24/23 18:17	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			09/24/23 18:17	1

Client Sample ID: LC34-DPT0916-008.0-20230918

Lab Sample ID: 670-27076-13

Date Collected: 09/18/23 15:00

Matrix: Water

Date Received: 09/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			09/24/23 18:17	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			09/24/23 18:17	1
Chloroethane	4.6	U	5.0	4.6	ug/L			09/24/23 18:17	1
Chloroform	0.27	U	1.0	0.27	ug/L			09/24/23 18:17	1
Chloromethane	0.54	U J3	1.0	0.54	ug/L			09/24/23 18:17	1
cis-1,2-Dichloroethene	**18**		1.0	0.25	ug/L			09/24/23 18:17	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			09/24/23 18:17	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			09/24/23 18:17	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			09/24/23 18:17	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			09/24/23 18:17	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			09/24/23 18:17	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			09/24/23 18:17	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			09/24/23 18:17	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			09/24/23 18:17	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			09/24/23 18:17	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			09/24/23 18:17	1
o-Xylene	0.26	U	1.0	0.26	ug/L			09/24/23 18:17	1
Styrene	0.27	U	1.0	0.27	ug/L			09/24/23 18:17	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			09/24/23 18:17	1
Toluene	0.25	U	1.0	0.25	ug/L			09/24/23 18:17	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			09/24/23 18:17	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			09/24/23 18:17	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			09/24/23 18:17	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			09/24/23 18:17	1
Vinyl chloride	**55**		1.0	0.40	ug/L			09/24/23 18:17	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			09/24/23 18:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*		*09/24/23 18:17*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*09/24/23 18:17*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*09/24/23 18:17*	*1*
Toluene-d8 (Surr)	*117*		*70 - 130*		*09/24/23 18:17*	*1*

Client Sample ID: LC34-DPT0916-013.0-20230918

Lab Sample ID: 670-27076-14

Date Collected: 09/18/23 15:15

Matrix: Water

Date Received: 09/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			09/24/23 18:36	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			09/24/23 18:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			09/24/23 18:36	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			09/24/23 18:36	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			09/24/23 18:36	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			09/24/23 18:36	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			09/24/23 18:36	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			09/24/23 18:36	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			09/24/23 18:36	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 18:36	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			09/24/23 18:36	1

Client Sample ID: LC34-DPT0916-013.0-20230918
Date Collected: 09/18/23 15:15
Date Received: 09/20/23 08:00

Lab Sample ID: 670-27076-14
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			09/24/23 18:36	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 18:36	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 18:36	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			09/24/23 18:36	1
2-Hexanone	3.2	U J3	10	3.2	ug/L			09/24/23 18:36	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			09/24/23 18:36	1
Acetone	3.7	U J3	10	3.7	ug/L			09/24/23 18:36	1
Benzene	0.27	U	1.0	0.27	ug/L			09/24/23 18:36	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			09/24/23 18:36	1
Bromoform	0.59	U	1.0	0.59	ug/L			09/24/23 18:36	1
Bromomethane	3.7	U	5.0	3.7	ug/L			09/24/23 18:36	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			09/24/23 18:36	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			09/24/23 18:36	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			09/24/23 18:36	1
Chloroethane	4.6	U	5.0	4.6	ug/L			09/24/23 18:36	1
Chloroform	0.27	U	1.0	0.27	ug/L			09/24/23 18:36	1
Chloromethane	0.54	U J3	1.0	0.54	ug/L			09/24/23 18:36	1
cis-1,2-Dichloroethene	**110**		1.0	0.25	ug/L			09/24/23 18:36	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			09/24/23 18:36	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			09/24/23 18:36	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			09/24/23 18:36	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			09/24/23 18:36	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			09/24/23 18:36	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			09/24/23 18:36	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			09/24/23 18:36	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			09/24/23 18:36	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			09/24/23 18:36	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			09/24/23 18:36	1
o-Xylene	0.26	U	1.0	0.26	ug/L			09/24/23 18:36	1
Styrene	0.27	U	1.0	0.27	ug/L			09/24/23 18:36	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			09/24/23 18:36	1
Toluene	0.25	U	1.0	0.25	ug/L			09/24/23 18:36	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			09/24/23 18:36	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			09/24/23 18:36	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			09/24/23 18:36	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			09/24/23 18:36	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			09/24/23 18:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*		*09/24/23 18:36*	*1*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*09/24/23 18:36*	*1*
Dibromofluoromethane (Surr)	*106*		*70 - 130*		*09/24/23 18:36*	*1*
Toluene-d8 (Surr)	*113*		*70 - 130*		*09/24/23 18:36*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	**340**		5.0	2.0	ug/L			09/26/23 14:27	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*118*		*60 - 124*		*09/26/23 14:27*	*5*

Client Sample ID: LC34-DPT0916-013.0-20230918
Lab Sample ID: 670-27076-14

Date Collected: 09/18/23 15:15
Matrix: Water
Date Received: 09/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*		*09/26/23 14:27*	*5*
Dibromofluoromethane (Surr)	*122*		*70 - 130*		*09/26/23 14:27*	*5*
Toluene-d8 (Surr)	*97*		*70 - 130*		*09/26/23 14:27*	*5*

Client Sample ID: LC34-DPT0916-018.0-20230918
Lab Sample ID: 670-27076-15

Date Collected: 09/18/23 15:30
Matrix: Water
Date Received: 09/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			09/24/23 18:55	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			09/24/23 18:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			09/24/23 18:55	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			09/24/23 18:55	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			09/24/23 18:55	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			09/24/23 18:55	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			09/24/23 18:55	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			09/24/23 18:55	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			09/24/23 18:55	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 18:55	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			09/24/23 18:55	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			09/24/23 18:55	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 18:55	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 18:55	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			09/24/23 18:55	1
2-Hexanone	3.2	U J3	10	3.2	ug/L			09/24/23 18:55	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			09/24/23 18:55	1
Acetone	3.7	U J3	10	3.7	ug/L			09/24/23 18:55	1
Benzene	0.27	U	1.0	0.27	ug/L			09/24/23 18:55	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			09/24/23 18:55	1
Bromoform	0.59	U	1.0	0.59	ug/L			09/24/23 18:55	1
Bromomethane	3.7	U	5.0	3.7	ug/L			09/24/23 18:55	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			09/24/23 18:55	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			09/24/23 18:55	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			09/24/23 18:55	1
Chloroethane	4.6	U	5.0	4.6	ug/L			09/24/23 18:55	1
Chloroform	0.27	U	1.0	0.27	ug/L			09/24/23 18:55	1
Chloromethane	0.54	U J3	1.0	0.54	ug/L			09/24/23 18:55	1
cis-1,2-Dichloroethene	**190**		1.0	0.25	ug/L			09/24/23 18:55	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			09/24/23 18:55	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			09/24/23 18:55	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			09/24/23 18:55	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			09/24/23 18:55	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			09/24/23 18:55	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			09/24/23 18:55	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			09/24/23 18:55	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			09/24/23 18:55	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			09/24/23 18:55	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			09/24/23 18:55	1

Client Sample ID: LC34-DPT0916-018.0-20230918

Lab Sample ID: 670-27076-15

Date Collected: 09/18/23 15:30

Matrix: Water

Date Received: 09/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	0.26	U	1.0	0.26	ug/L			09/24/23 18:55	1
Styrene	0.27	U	1.0	0.27	ug/L			09/24/23 18:55	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			09/24/23 18:55	1
Toluene	0.25	U	1.0	0.25	ug/L			09/24/23 18:55	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			09/24/23 18:55	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			09/24/23 18:55	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			09/24/23 18:55	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			09/24/23 18:55	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			09/24/23 18:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*		*09/24/23 18:55*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*09/24/23 18:55*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*09/24/23 18:55*	*1*
Toluene-d8 (Surr)	*113*		*70 - 130*		*09/24/23 18:55*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	**590**		5.0	2.0	ug/L			09/26/23 14:49	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*60 - 124*		*09/26/23 14:49*	*5*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*		*09/26/23 14:49*	*5*
Dibromofluoromethane (Surr)	*121*		*70 - 130*		*09/26/23 14:49*	*5*
Toluene-d8 (Surr)	*98*		*70 - 130*		*09/26/23 14:49*	*5*

Client Sample ID: LC34-DPT0916-025.0-20230918

Lab Sample ID: 670-27076-16

Date Collected: 09/18/23 15:45

Matrix: Water

Date Received: 09/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	5.0	1.1	ug/L			09/24/23 19:16	5
1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	ug/L			09/24/23 19:16	5
1,1,2-Trichloro-1,2,2-trifluoroethane	1.2	U	5.0	1.2	ug/L			09/24/23 19:16	5
1,1,2-Trichloroethane	1.6	U	5.0	1.6	ug/L			09/24/23 19:16	5
1,1-Dichloroethane	1.7	U	5.0	1.7	ug/L			09/24/23 19:16	5
1,1-Dichloroethene	1.7	U	5.0	1.7	ug/L			09/24/23 19:16	5
1,2,4-Trichlorobenzene	2.7	U	25	2.7	ug/L			09/24/23 19:16	5
1,2-Dibromo-3-Chloropropane	9.0	U	25	9.0	ug/L			09/24/23 19:16	5
1,2-Dibromoethane (EDB)	1.7	U	5.0	1.7	ug/L			09/24/23 19:16	5
1,2-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			09/24/23 19:16	5
1,2-Dichloroethane	1.3	U	5.0	1.3	ug/L			09/24/23 19:16	5
1,2-Dichloropropane	1.1	U	5.0	1.1	ug/L			09/24/23 19:16	5
1,3-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			09/24/23 19:16	5
1,4-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			09/24/23 19:16	5
2-Butanone (MEK)	32	U J3	50	32	ug/L			09/24/23 19:16	5
2-Hexanone	16	U J3	50	16	ug/L			09/24/23 19:16	5
4-Methyl-2-pentanone	14	U J3	50	14	ug/L			09/24/23 19:16	5
Acetone	19	U J3	50	19	ug/L			09/24/23 19:16	5
Benzene	1.4	U	5.0	1.4	ug/L			09/24/23 19:16	5

Client Sample ID: LC34-DPT0916-025.0-20230918
Lab Sample ID: 670-27076-16
Date Collected: 09/18/23 15:45
Matrix: Water
Date Received: 09/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	1.3	U	5.0	1.3	ug/L			09/24/23 19:16	5
Bromoform	3.0	U	5.0	3.0	ug/L			09/24/23 19:16	5
Bromomethane	19	U	25	19	ug/L			09/24/23 19:16	5
Carbon disulfide	2.2	U	10	2.2	ug/L			09/24/23 19:16	5
Carbon tetrachloride	1.5	U	5.0	1.5	ug/L			09/24/23 19:16	5
Chlorobenzene	0.75	U	5.0	0.75	ug/L			09/24/23 19:16	5
Chloroethane	23	U	25	23	ug/L			09/24/23 19:16	5
Chloroform	1.4	U	5.0	1.4	ug/L			09/24/23 19:16	5
Chloromethane	2.7	U J3	5.0	2.7	ug/L			09/24/23 19:16	5
cis-1,2-Dichloroethene	**1200**		25	6.3	ug/L			09/26/23 15:10	25
cis-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			09/24/23 19:16	5
Cyclohexane	1.4	U	5.0	1.4	ug/L			09/24/23 19:16	5
Dibromochloromethane	2.0	U	5.0	2.0	ug/L			09/24/23 19:16	5
Dichlorodifluoromethane	1.8	U	5.0	1.8	ug/L			09/24/23 19:16	5
Ethylbenzene	1.0	U	5.0	1.0	ug/L			09/24/23 19:16	5
Isopropylbenzene	1.3	U	5.0	1.3	ug/L			09/24/23 19:16	5
m,p-Xylenes	2.5	U	5.0	2.5	ug/L			09/24/23 19:16	5
Methyl acetate	16	U	25	16	ug/L			09/24/23 19:16	5
Methyl tert-butyl ether	4.1	U	25	4.1	ug/L			09/24/23 19:16	5
Methylene Chloride	16	U	25	16	ug/L			09/24/23 19:16	5
o-Xylene	1.3	U	5.0	1.3	ug/L			09/24/23 19:16	5
Styrene	1.4	U	5.0	1.4	ug/L			09/24/23 19:16	5
Tetrachloroethene	1.8	U	5.0	1.8	ug/L			09/24/23 19:16	5
Toluene	1.3	U	5.0	1.3	ug/L			09/24/23 19:16	5
trans-1,2-Dichloroethene	**27**		5.0	1.7	ug/L			09/24/23 19:16	5
trans-1,3-Dichloropropene	1.2	U	5.0	1.2	ug/L			09/24/23 19:16	5
Trichloroethene	1.0	U	5.0	1.0	ug/L			09/24/23 19:16	5
Trichlorofluoromethane	1.7	U	5.0	1.7	ug/L			09/24/23 19:16	5
Vinyl chloride	**740**		5.0	2.0	ug/L			09/24/23 19:16	5
Xylenes, Total	1.2	U	5.0	1.2	ug/L			09/24/23 19:16	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 124*		*09/24/23 19:16*	*5*
1,2-Dichloroethane-d4 (Surr)	*115*		*60 - 124*		*09/26/23 15:10*	*25*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*		*09/24/23 19:16*	*5*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*		*09/26/23 15:10*	*25*
Dibromofluoromethane (Surr)	*107*		*70 - 130*		*09/24/23 19:16*	*5*
Dibromofluoromethane (Surr)	*120*		*70 - 130*		*09/26/23 15:10*	*25*
Toluene-d8 (Surr)	*113*		*70 - 130*		*09/24/23 19:16*	*5*
Toluene-d8 (Surr)	*98*		*70 - 130*		*09/26/23 15:10*	*25*

Client Sample ID: LC34-DPT0916-034.0-20230918
Lab Sample ID: 670-27076-17
Date Collected: 09/18/23 16:00
Matrix: Water
Date Received: 09/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			09/24/23 19:36	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			09/24/23 19:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			09/24/23 19:36	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27076-1

Client Sample ID: LC34-DPT0916-034.0-20230918
Date Collected: 09/18/23 16:00
Date Received: 09/20/23 08:00

Lab Sample ID: 670-27076-17
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			09/24/23 19:36	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			09/24/23 19:36	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			09/24/23 19:36	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			09/24/23 19:36	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			09/24/23 19:36	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			09/24/23 19:36	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 19:36	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			09/24/23 19:36	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			09/24/23 19:36	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 19:36	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 19:36	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			09/24/23 19:36	1
2-Hexanone	3.2	U J3	10	3.2	ug/L			09/24/23 19:36	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			09/24/23 19:36	1
Acetone	3.7	U J3	10	3.7	ug/L			09/24/23 19:36	1
Benzene	0.27	U	1.0	0.27	ug/L			09/24/23 19:36	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			09/24/23 19:36	1
Bromoform	0.59	U	1.0	0.59	ug/L			09/24/23 19:36	1
Bromomethane	3.7	U	5.0	3.7	ug/L			09/24/23 19:36	1
Carbon disulfide	**1.6**	**I**	2.0	0.43	ug/L			09/24/23 19:36	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			09/24/23 19:36	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			09/24/23 19:36	1
Chloroethane	4.6	U	5.0	4.6	ug/L			09/24/23 19:36	1
Chloroform	0.27	U	1.0	0.27	ug/L			09/24/23 19:36	1
Chloromethane	0.54	U J3	1.0	0.54	ug/L			09/24/23 19:36	1
cis-1,2-Dichloroethene	**15**		1.0	0.25	ug/L			09/24/23 19:36	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			09/24/23 19:36	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			09/24/23 19:36	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			09/24/23 19:36	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			09/24/23 19:36	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			09/24/23 19:36	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			09/24/23 19:36	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			09/24/23 19:36	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			09/24/23 19:36	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			09/24/23 19:36	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			09/24/23 19:36	1
o-Xylene	0.26	U	1.0	0.26	ug/L			09/24/23 19:36	1
Styrene	0.27	U	1.0	0.27	ug/L			09/24/23 19:36	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			09/24/23 19:36	1
Toluene	0.25	U	1.0	0.25	ug/L			09/24/23 19:36	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			09/24/23 19:36	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			09/24/23 19:36	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			09/24/23 19:36	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			09/24/23 19:36	1
Vinyl chloride	**7.5**		1.0	0.40	ug/L			09/24/23 19:36	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			09/24/23 19:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*60 - 124*		*09/24/23 19:36*	*1*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*09/24/23 19:36*	*1*

Client Sample ID: LC34-DPT0916-034.0-20230918

Lab Sample ID: 670-27076-17

Date Collected: 09/18/23 16:00

Matrix: Water

Date Received: 09/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*09/24/23 19:36*	*1*
Toluene-d8 (Surr)	*113*		*70 - 130*		*09/24/23 19:36*	*1*

Client Sample ID: LC34-DPT0916-038.0-20230918

Lab Sample ID: 670-27076-18

Date Collected: 09/18/23 16:20

Matrix: Water

Date Received: 09/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			09/24/23 19:55	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			09/24/23 19:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			09/24/23 19:55	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			09/24/23 19:55	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			09/24/23 19:55	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			09/24/23 19:55	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			09/24/23 19:55	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			09/24/23 19:55	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			09/24/23 19:55	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 19:55	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			09/24/23 19:55	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			09/24/23 19:55	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 19:55	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 19:55	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			09/24/23 19:55	1
2-Hexanone	3.2	U J3	10	3.2	ug/L			09/24/23 19:55	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			09/24/23 19:55	1
Acetone	3.7	U J3	10	3.7	ug/L			09/24/23 19:55	1
Benzene	0.27	U	1.0	0.27	ug/L			09/24/23 19:55	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			09/24/23 19:55	1
Bromoform	0.59	U	1.0	0.59	ug/L			09/24/23 19:55	1
Bromomethane	3.7	U	5.0	3.7	ug/L			09/24/23 19:55	1
Carbon disulfide	**1.5**	**I**	2.0	0.43	ug/L			09/24/23 19:55	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			09/24/23 19:55	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			09/24/23 19:55	1
Chloroethane	4.6	U	5.0	4.6	ug/L			09/24/23 19:55	1
Chloroform	0.27	U	1.0	0.27	ug/L			09/24/23 19:55	1
Chloromethane	0.54	U J3	1.0	0.54	ug/L			09/24/23 19:55	1
cis-1,2-Dichloroethene	**1.2**		1.0	0.25	ug/L			09/24/23 19:55	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			09/24/23 19:55	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			09/24/23 19:55	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			09/24/23 19:55	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			09/24/23 19:55	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			09/24/23 19:55	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			09/24/23 19:55	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			09/24/23 19:55	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			09/24/23 19:55	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			09/24/23 19:55	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			09/24/23 19:55	1
o-Xylene	0.26	U	1.0	0.26	ug/L			09/24/23 19:55	1

Client Sample ID: LC34-DPT0916-038.0-20230918

Lab Sample ID: 670-27076-18

Date Collected: 09/18/23 16:20

Matrix: Water

Date Received: 09/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.27	U	1.0	0.27	ug/L			09/24/23 19:55	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			09/24/23 19:55	1
Toluene	0.25	U	1.0	0.25	ug/L			09/24/23 19:55	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			09/24/23 19:55	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			09/24/23 19:55	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			09/24/23 19:55	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			09/24/23 19:55	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			09/24/23 19:55	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			09/24/23 19:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*60 - 124*		*09/24/23 19:55*	*1*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*09/24/23 19:55*	*1*
Dibromofluoromethane (Surr)	*105*		*70 - 130*		*09/24/23 19:55*	*1*
Toluene-d8 (Surr)	*113*		*70 - 130*		*09/24/23 19:55*	*1*

Client Sample ID: LC34-DPT0917-008.0-20230919

Lab Sample ID: 670-27076-19

Date Collected: 09/19/23 08:10

Matrix: Water

Date Received: 09/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			09/24/23 20:14	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			09/24/23 20:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			09/24/23 20:14	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			09/24/23 20:14	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			09/24/23 20:14	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			09/24/23 20:14	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			09/24/23 20:14	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			09/24/23 20:14	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			09/24/23 20:14	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 20:14	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			09/24/23 20:14	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			09/24/23 20:14	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 20:14	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 20:14	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			09/24/23 20:14	1
2-Hexanone	3.2	U J3	10	3.2	ug/L			09/24/23 20:14	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			09/24/23 20:14	1
Acetone	3.7	U J3	10	3.7	ug/L			09/24/23 20:14	1
Benzene	0.27	U	1.0	0.27	ug/L			09/24/23 20:14	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			09/24/23 20:14	1
Bromoform	0.59	U	1.0	0.59	ug/L			09/24/23 20:14	1
Bromomethane	3.7	U	5.0	3.7	ug/L			09/24/23 20:14	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			09/24/23 20:14	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			09/24/23 20:14	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			09/24/23 20:14	1
Chloroethane	4.6	U	5.0	4.6	ug/L			09/24/23 20:14	1
Chloroform	0.27	U	1.0	0.27	ug/L			09/24/23 20:14	1
Chloromethane	0.54	U J3	1.0	0.54	ug/L			09/24/23 20:14	1

Client Sample ID: LC34-DPT0917-008.0-20230919

Lab Sample ID: 670-27076-19

Date Collected: 09/19/23 08:10

Matrix: Water

Date Received: 09/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**44**		1.0	0.25	ug/L			09/24/23 20:14	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			09/24/23 20:14	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			09/24/23 20:14	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			09/24/23 20:14	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			09/24/23 20:14	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			09/24/23 20:14	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			09/24/23 20:14	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			09/24/23 20:14	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			09/24/23 20:14	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			09/24/23 20:14	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			09/24/23 20:14	1
o-Xylene	0.26	U	1.0	0.26	ug/L			09/24/23 20:14	1
Styrene	0.27	U	1.0	0.27	ug/L			09/24/23 20:14	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			09/24/23 20:14	1
Toluene	0.25	U	1.0	0.25	ug/L			09/24/23 20:14	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			09/24/23 20:14	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			09/24/23 20:14	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			09/24/23 20:14	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			09/24/23 20:14	1
Vinyl chloride	**130**		1.0	0.40	ug/L			09/24/23 20:14	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			09/24/23 20:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*60 - 124*		*09/24/23 20:14*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*09/24/23 20:14*	*1*
Dibromofluoromethane (Surr)	*107*		*70 - 130*		*09/24/23 20:14*	*1*
Toluene-d8 (Surr)	*114*		*70 - 130*		*09/24/23 20:14*	*1*

Client Sample ID: LC34-DPT0917-013.0-20230919

Lab Sample ID: 670-27076-20

Date Collected: 09/19/23 08:25

Matrix: Water

Date Received: 09/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			09/24/23 20:33	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			09/24/23 20:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			09/24/23 20:33	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			09/24/23 20:33	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			09/24/23 20:33	1
1,1-Dichloroethene	**0.92**	**I**	1.0	0.33	ug/L			09/24/23 20:33	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			09/24/23 20:33	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			09/24/23 20:33	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			09/24/23 20:33	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 20:33	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			09/24/23 20:33	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			09/24/23 20:33	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 20:33	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 20:33	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			09/24/23 20:33	1
2-Hexanone	3.2	U J3	10	3.2	ug/L			09/24/23 20:33	1

Client Sample ID: LC34-DPT0917-013.0-20230919
Date Collected: 09/19/23 08:25
Date Received: 09/20/23 08:00

Lab Sample ID: 670-27076-20
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			09/24/23 20:33	1
Acetone	3.7	U J3	10	3.7	ug/L			09/24/23 20:33	1
Benzene	0.27	U	1.0	0.27	ug/L			09/24/23 20:33	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			09/24/23 20:33	1
Bromoform	0.59	U	1.0	0.59	ug/L			09/24/23 20:33	1
Bromomethane	3.7	U	5.0	3.7	ug/L			09/24/23 20:33	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			09/24/23 20:33	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			09/24/23 20:33	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			09/24/23 20:33	1
Chloroethane	4.6	U	5.0	4.6	ug/L			09/24/23 20:33	1
Chloroform	0.27	U	1.0	0.27	ug/L			09/24/23 20:33	1
Chloromethane	0.54	U J3	1.0	0.54	ug/L			09/24/23 20:33	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			09/24/23 20:33	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			09/24/23 20:33	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			09/24/23 20:33	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			09/24/23 20:33	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			09/24/23 20:33	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			09/24/23 20:33	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			09/24/23 20:33	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			09/24/23 20:33	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			09/24/23 20:33	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			09/24/23 20:33	1
o-Xylene	0.26	U	1.0	0.26	ug/L			09/24/23 20:33	1
Styrene	0.27	U	1.0	0.27	ug/L			09/24/23 20:33	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			09/24/23 20:33	1
Toluene	0.25	U	1.0	0.25	ug/L			09/24/23 20:33	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			09/24/23 20:33	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			09/24/23 20:33	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			09/24/23 20:33	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			09/24/23 20:33	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			09/24/23 20:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*		*09/24/23 20:33*	*1*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*09/24/23 20:33*	*1*
Dibromofluoromethane (Surr)	*105*		*70 - 130*		*09/24/23 20:33*	*1*
Toluene-d8 (Surr)	*117*		*70 - 130*		*09/24/23 20:33*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**300**		10	2.5	ug/L			09/26/23 16:09	10
Vinyl chloride	**830**		10	4.0	ug/L			09/26/23 16:09	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*60 - 124*		*09/26/23 16:09*	*10*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*		*09/26/23 16:09*	*10*
Dibromofluoromethane (Surr)	*120*		*70 - 130*		*09/26/23 16:09*	*10*
Toluene-d8 (Surr)	*97*		*70 - 130*		*09/26/23 16:09*	*10*

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27076-1

Client Sample ID: LC34-DPT0917-018.0-20230919
Date Collected: 09/19/23 08:40
Date Received: 09/20/23 08:00

Lab Sample ID: 670-27076-21
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			09/24/23 20:52	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			09/24/23 20:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			09/24/23 20:52	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			09/24/23 20:52	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			09/24/23 20:52	1
1,1-Dichloroethene	**2.6**		1.0	0.33	ug/L			09/24/23 20:52	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			09/24/23 20:52	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			09/24/23 20:52	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			09/24/23 20:52	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 20:52	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			09/24/23 20:52	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			09/24/23 20:52	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 20:52	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 20:52	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			09/24/23 20:52	1
2-Hexanone	3.2	U J3	10	3.2	ug/L			09/24/23 20:52	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			09/24/23 20:52	1
Acetone	3.7	U J3	10	3.7	ug/L			09/24/23 20:52	1
Benzene	0.27	U	1.0	0.27	ug/L			09/24/23 20:52	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			09/24/23 20:52	1
Bromoform	0.59	U	1.0	0.59	ug/L			09/24/23 20:52	1
Bromomethane	3.7	U	5.0	3.7	ug/L			09/24/23 20:52	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			09/24/23 20:52	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			09/24/23 20:52	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			09/24/23 20:52	1
Chloroethane	4.6	U	5.0	4.6	ug/L			09/24/23 20:52	1
Chloroform	0.27	U	1.0	0.27	ug/L			09/24/23 20:52	1
Chloromethane	0.54	U J3	1.0	0.54	ug/L			09/24/23 20:52	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			09/24/23 20:52	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			09/24/23 20:52	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			09/24/23 20:52	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			09/24/23 20:52	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			09/24/23 20:52	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			09/24/23 20:52	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			09/24/23 20:52	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			09/24/23 20:52	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			09/24/23 20:52	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			09/24/23 20:52	1
o-Xylene	0.26	U	1.0	0.26	ug/L			09/24/23 20:52	1
Styrene	0.27	U	1.0	0.27	ug/L			09/24/23 20:52	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			09/24/23 20:52	1
Toluene	0.25	U	1.0	0.25	ug/L			09/24/23 20:52	1
trans-1,2-Dichloroethene	**4.2**		1.0	0.34	ug/L			09/24/23 20:52	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			09/24/23 20:52	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			09/24/23 20:52	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			09/24/23 20:52	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			09/24/23 20:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*60 - 124*		*09/24/23 20:52*	*1*

Client Sample ID: LC34-DPT0917-018.0-20230919

Lab Sample ID: 670-27076-21

Date Collected: 09/19/23 08:40
Matrix: Water
Date Received: 09/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*09/24/23 20:52*	*1*
Dibromofluoromethane (Surr)	*107*		*70 - 130*		*09/24/23 20:52*	*1*
Toluene-d8 (Surr)	*115*		*70 - 130*		*09/24/23 20:52*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**770**		25	6.3	ug/L			09/26/23 16:30	25
Vinyl chloride	**1100**		25	10	ug/L			09/26/23 16:30	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*60 - 124*		*09/26/23 16:30*	*25*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*		*09/26/23 16:30*	*25*
Dibromofluoromethane (Surr)	*123*		*70 - 130*		*09/26/23 16:30*	*25*
Toluene-d8 (Surr)	*98*		*70 - 130*		*09/26/23 16:30*	*25*

Client Sample ID: LC34-DPT0917-025.0-20230919

Lab Sample ID: 670-27076-22

Date Collected: 09/19/23 08:55
Matrix: Water
Date Received: 09/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	5.0	1.1	ug/L			09/24/23 21:13	5
1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	ug/L			09/24/23 21:13	5
1,1,2-Trichloro-1,2,2-trifluoroethane	1.2	U	5.0	1.2	ug/L			09/24/23 21:13	5
1,1,2-Trichloroethane	1.6	U	5.0	1.6	ug/L			09/24/23 21:13	5
1,1-Dichloroethane	1.7	U	5.0	1.7	ug/L			09/24/23 21:13	5
1,1-Dichloroethene	**3.3**	**I**	5.0	1.7	ug/L			09/24/23 21:13	5
1,2,4-Trichlorobenzene	2.7	U	25	2.7	ug/L			09/24/23 21:13	5
1,2-Dibromo-3-Chloropropane	9.0	U	25	9.0	ug/L			09/24/23 21:13	5
1,2-Dibromoethane (EDB)	1.7	U	5.0	1.7	ug/L			09/24/23 21:13	5
1,2-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			09/24/23 21:13	5
1,2-Dichloroethane	1.3	U	5.0	1.3	ug/L			09/24/23 21:13	5
1,2-Dichloropropane	1.1	U	5.0	1.1	ug/L			09/24/23 21:13	5
1,3-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			09/24/23 21:13	5
1,4-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			09/24/23 21:13	5
2-Butanone (MEK)	32	U J3	50	32	ug/L			09/24/23 21:13	5
2-Hexanone	16	U J3	50	16	ug/L			09/24/23 21:13	5
4-Methyl-2-pentanone	14	U J3	50	14	ug/L			09/24/23 21:13	5
Acetone	19	U J3	50	19	ug/L			09/24/23 21:13	5
Benzene	1.4	U	5.0	1.4	ug/L			09/24/23 21:13	5
Bromodichloromethane	1.3	U	5.0	1.3	ug/L			09/24/23 21:13	5
Bromoform	3.0	U	5.0	3.0	ug/L			09/24/23 21:13	5
Bromomethane	19	U	25	19	ug/L			09/24/23 21:13	5
Carbon disulfide	2.2	U	10	2.2	ug/L			09/24/23 21:13	5
Carbon tetrachloride	1.5	U	5.0	1.5	ug/L			09/24/23 21:13	5
Chlorobenzene	0.75	U	5.0	0.75	ug/L			09/24/23 21:13	5
Chloroethane	23	U	25	23	ug/L			09/24/23 21:13	5
Chloroform	1.4	U	5.0	1.4	ug/L			09/24/23 21:13	5
Chloromethane	2.7	U J3	5.0	2.7	ug/L			09/24/23 21:13	5
cis-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			09/24/23 21:13	5

Client Sample ID: LC34-DPT0917-025.0-20230919

Lab Sample ID: 670-27076-22

Date Collected: 09/19/23 08:55

Matrix: Water

Date Received: 09/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	1.4	U	5.0	1.4	ug/L			09/24/23 21:13	5
Dibromochloromethane	2.0	U	5.0	2.0	ug/L			09/24/23 21:13	5
Dichlorodifluoromethane	1.8	U	5.0	1.8	ug/L			09/24/23 21:13	5
Ethylbenzene	1.0	U	5.0	1.0	ug/L			09/24/23 21:13	5
Isopropylbenzene	1.3	U	5.0	1.3	ug/L			09/24/23 21:13	5
m,p-Xylenes	2.5	U	5.0	2.5	ug/L			09/24/23 21:13	5
Methyl acetate	16	U	25	16	ug/L			09/24/23 21:13	5
Methyl tert-butyl ether	4.1	U	25	4.1	ug/L			09/24/23 21:13	5
Methylene Chloride	16	U	25	16	ug/L			09/24/23 21:13	5
o-Xylene	1.3	U	5.0	1.3	ug/L			09/24/23 21:13	5
Styrene	1.4	U	5.0	1.4	ug/L			09/24/23 21:13	5
Tetrachloroethene	1.8	U	5.0	1.8	ug/L			09/24/23 21:13	5
Toluene	1.3	U	5.0	1.3	ug/L			09/24/23 21:13	5
trans-1,2-Dichloroethene	**17**		5.0	1.7	ug/L			09/24/23 21:13	5
trans-1,3-Dichloropropene	1.2	U	5.0	1.2	ug/L			09/24/23 21:13	5
Trichloroethene	1.0	U	5.0	1.0	ug/L			09/24/23 21:13	5
Trichlorofluoromethane	1.7	U	5.0	1.7	ug/L			09/24/23 21:13	5
Vinyl chloride	**790**		5.0	2.0	ug/L			09/24/23 21:13	5
Xylenes, Total	1.2	U	5.0	1.2	ug/L			09/24/23 21:13	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*60 - 124*		*09/24/23 21:13*	*5*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*09/24/23 21:13*	*5*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*09/24/23 21:13*	*5*
Toluene-d8 (Surr)	*109*		*70 - 130*		*09/24/23 21:13*	*5*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**1400**		25	6.3	ug/L			09/26/23 16:51	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*60 - 124*		*09/26/23 16:51*	*25*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*		*09/26/23 16:51*	*25*
Dibromofluoromethane (Surr)	*120*		*70 - 130*		*09/26/23 16:51*	*25*
Toluene-d8 (Surr)	*99*		*70 - 130*		*09/26/23 16:51*	*25*

Client Sample ID: LC34-DPT0917-034.0-20230919

Lab Sample ID: 670-27076-23

Date Collected: 09/19/23 09:10

Matrix: Water

Date Received: 09/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			09/24/23 21:32	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			09/24/23 21:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			09/24/23 21:32	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			09/24/23 21:32	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			09/24/23 21:32	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			09/24/23 21:32	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			09/24/23 21:32	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			09/24/23 21:32	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			09/24/23 21:32	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27076-1

Client Sample ID: LC34-DPT0917-034.0-20230919
Date Collected: 09/19/23 09:10
Date Received: 09/20/23 08:00

Lab Sample ID: 670-27076-23
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 21:32	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			09/24/23 21:32	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			09/24/23 21:32	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 21:32	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 21:32	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			09/24/23 21:32	1
2-Hexanone	3.2	U J3	10	3.2	ug/L			09/24/23 21:32	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			09/24/23 21:32	1
Acetone	3.7	U J3	10	3.7	ug/L			09/24/23 21:32	1
Benzene	0.27	U	1.0	0.27	ug/L			09/24/23 21:32	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			09/24/23 21:32	1
Bromoform	0.59	U	1.0	0.59	ug/L			09/24/23 21:32	1
Bromomethane	3.7	U	5.0	3.7	ug/L			09/24/23 21:32	1
Carbon disulfide	**1.1**	**I**	2.0	0.43	ug/L			09/24/23 21:32	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			09/24/23 21:32	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			09/24/23 21:32	1
Chloroethane	4.6	U	5.0	4.6	ug/L			09/24/23 21:32	1
Chloroform	0.27	U	1.0	0.27	ug/L			09/24/23 21:32	1
Chloromethane	0.54	U J3	1.0	0.54	ug/L			09/24/23 21:32	1
cis-1,2-Dichloroethene	**36**		1.0	0.25	ug/L			09/24/23 21:32	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			09/24/23 21:32	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			09/24/23 21:32	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			09/24/23 21:32	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			09/24/23 21:32	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			09/24/23 21:32	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			09/24/23 21:32	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			09/24/23 21:32	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			09/24/23 21:32	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			09/24/23 21:32	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			09/24/23 21:32	1
o-Xylene	0.26	U	1.0	0.26	ug/L			09/24/23 21:32	1
Styrene	0.27	U	1.0	0.27	ug/L			09/24/23 21:32	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			09/24/23 21:32	1
Toluene	0.25	U	1.0	0.25	ug/L			09/24/23 21:32	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			09/24/23 21:32	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			09/24/23 21:32	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			09/24/23 21:32	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			09/24/23 21:32	1
Vinyl chloride	**15**		1.0	0.40	ug/L			09/24/23 21:32	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			09/24/23 21:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 124*		*09/24/23 21:32*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*09/24/23 21:32*	*1*
Dibromofluoromethane (Surr)	*108*		*70 - 130*		*09/24/23 21:32*	*1*
Toluene-d8 (Surr)	*113*		*70 - 130*		*09/24/23 21:32*	*1*

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27076-1

Client Sample ID: LC34-DPT0918-008.0-20230919
Date Collected: 09/19/23 10:00
Date Received: 09/20/23 08:00

Lab Sample ID: 670-27076-24
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			09/24/23 21:51	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			09/24/23 21:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			09/24/23 21:51	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			09/24/23 21:51	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			09/24/23 21:51	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			09/24/23 21:51	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			09/24/23 21:51	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			09/24/23 21:51	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			09/24/23 21:51	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 21:51	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			09/24/23 21:51	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			09/24/23 21:51	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 21:51	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 21:51	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			09/24/23 21:51	1
2-Hexanone	3.2	U J3	10	3.2	ug/L			09/24/23 21:51	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			09/24/23 21:51	1
Acetone	3.7	U J3	10	3.7	ug/L			09/24/23 21:51	1
Benzene	0.27	U	1.0	0.27	ug/L			09/24/23 21:51	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			09/24/23 21:51	1
Bromoform	0.59	U	1.0	0.59	ug/L			09/24/23 21:51	1
Bromomethane	3.7	U	5.0	3.7	ug/L			09/24/23 21:51	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			09/24/23 21:51	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			09/24/23 21:51	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			09/24/23 21:51	1
Chloroethane	4.6	U	5.0	4.6	ug/L			09/24/23 21:51	1
Chloroform	0.27	U	1.0	0.27	ug/L			09/24/23 21:51	1
Chloromethane	0.54	U J3	1.0	0.54	ug/L			09/24/23 21:51	1
cis-1,2-Dichloroethene	**8.1**		1.0	0.25	ug/L			09/24/23 21:51	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			09/24/23 21:51	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			09/24/23 21:51	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			09/24/23 21:51	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			09/24/23 21:51	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			09/24/23 21:51	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			09/24/23 21:51	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			09/24/23 21:51	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			09/24/23 21:51	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			09/24/23 21:51	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			09/24/23 21:51	1
o-Xylene	0.26	U	1.0	0.26	ug/L			09/24/23 21:51	1
Styrene	0.27	U	1.0	0.27	ug/L			09/24/23 21:51	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			09/24/23 21:51	1
Toluene	0.25	U	1.0	0.25	ug/L			09/24/23 21:51	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			09/24/23 21:51	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			09/24/23 21:51	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			09/24/23 21:51	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			09/24/23 21:51	1
Vinyl chloride	**38**		1.0	0.40	ug/L			09/24/23 21:51	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			09/24/23 21:51	1

Client Sample ID: LC34-DPT0918-008.0-20230919

Lab Sample ID: 670-27076-24

Date Collected: 09/19/23 10:00
Matrix: Water
Date Received: 09/20/23 08:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*60 - 124*		*09/24/23 21:51*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*09/24/23 21:51*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*09/24/23 21:51*	*1*
Toluene-d8 (Surr)	*113*		*70 - 130*		*09/24/23 21:51*	*1*

Client Sample ID: LC34-DPT0918-013.0-20230919

Lab Sample ID: 670-27076-25

Date Collected: 09/19/23 10:15
Matrix: Water
Date Received: 09/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			09/24/23 22:10	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			09/24/23 22:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			09/24/23 22:10	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			09/24/23 22:10	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			09/24/23 22:10	1
1,1-Dichloroethene	**1.1**		1.0	0.33	ug/L			09/24/23 22:10	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			09/24/23 22:10	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			09/24/23 22:10	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			09/24/23 22:10	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 22:10	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			09/24/23 22:10	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			09/24/23 22:10	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 22:10	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 22:10	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			09/24/23 22:10	1
2-Hexanone	3.2	U J3	10	3.2	ug/L			09/24/23 22:10	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			09/24/23 22:10	1
Acetone	3.7	U J3	10	3.7	ug/L			09/24/23 22:10	1
Benzene	0.27	U	1.0	0.27	ug/L			09/24/23 22:10	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			09/24/23 22:10	1
Bromoform	0.59	U	1.0	0.59	ug/L			09/24/23 22:10	1
Bromomethane	3.7	U	5.0	3.7	ug/L			09/24/23 22:10	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			09/24/23 22:10	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			09/24/23 22:10	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			09/24/23 22:10	1
Chloroethane	4.6	U	5.0	4.6	ug/L			09/24/23 22:10	1
Chloroform	0.27	U	1.0	0.27	ug/L			09/24/23 22:10	1
Chloromethane	0.54	U J3	1.0	0.54	ug/L			09/24/23 22:10	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			09/24/23 22:10	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			09/24/23 22:10	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			09/24/23 22:10	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			09/24/23 22:10	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			09/24/23 22:10	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			09/24/23 22:10	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			09/24/23 22:10	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			09/24/23 22:10	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			09/24/23 22:10	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			09/24/23 22:10	1
o-Xylene	0.26	U	1.0	0.26	ug/L			09/24/23 22:10	1

Client Sample ID: LC34-DPT0918-013.0-20230919

Lab Sample ID: 670-27076-25

Date Collected: 09/19/23 10:15

Matrix: Water

Date Received: 09/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.27	U	1.0	0.27	ug/L			09/24/23 22:10	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			09/24/23 22:10	1
Toluene	0.25	U	1.0	0.25	ug/L			09/24/23 22:10	1
trans-1,2-Dichloroethene	**0.90**	**I**	1.0	0.34	ug/L			09/24/23 22:10	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			09/24/23 22:10	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			09/24/23 22:10	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			09/24/23 22:10	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			09/24/23 22:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*60 - 124*		*09/24/23 22:10*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*09/24/23 22:10*	*1*
Dibromofluoromethane (Surr)	*105*		*70 - 130*		*09/24/23 22:10*	*1*
Toluene-d8 (Surr)	*110*		*70 - 130*		*09/24/23 22:10*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**460**		10	2.5	ug/L			09/26/23 17:50	10
Vinyl chloride	**1200**		10	4.0	ug/L			09/26/23 17:50	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*60 - 124*		*09/26/23 17:50*	*10*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*		*09/26/23 17:50*	*10*
Dibromofluoromethane (Surr)	*123*		*70 - 130*		*09/26/23 17:50*	*10*
Toluene-d8 (Surr)	*97*		*70 - 130*		*09/26/23 17:50*	*10*

Client Sample ID: LC34-DPT0918-018.0-20230919

Lab Sample ID: 670-27076-26

Date Collected: 09/19/23 10:30

Matrix: Water

Date Received: 09/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			09/24/23 15:08	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			09/24/23 15:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			09/24/23 15:08	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			09/24/23 15:08	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			09/24/23 15:08	1
1,1-Dichloroethene	**6.4**		1.0	0.33	ug/L			09/24/23 15:08	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			09/24/23 15:08	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			09/24/23 15:08	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			09/24/23 15:08	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 15:08	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			09/24/23 15:08	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			09/24/23 15:08	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 15:08	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 15:08	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			09/24/23 15:08	1
2-Hexanone	3.2	U J3	10	3.2	ug/L			09/24/23 15:08	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			09/24/23 15:08	1
Acetone	3.7	U J3	10	3.7	ug/L			09/24/23 15:08	1
Benzene	0.27	U	1.0	0.27	ug/L			09/24/23 15:08	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27076-1

Client Sample ID: LC34-DPT0918-018.0-20230919
Date Collected: 09/19/23 10:30
Date Received: 09/20/23 08:00

Lab Sample ID: 670-27076-26
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			09/24/23 15:08	1
Bromoform	0.59	U	1.0	0.59	ug/L			09/24/23 15:08	1
Bromomethane	3.7	U	5.0	3.7	ug/L			09/24/23 15:08	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			09/24/23 15:08	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			09/24/23 15:08	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			09/24/23 15:08	1
Chloroethane	4.6	U	5.0	4.6	ug/L			09/24/23 15:08	1
Chloroform	0.27	U	1.0	0.27	ug/L			09/24/23 15:08	1
Chloromethane	0.54	U	1.0	0.54	ug/L			09/24/23 15:08	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			09/24/23 15:08	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			09/24/23 15:08	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			09/24/23 15:08	1
Dichlorodifluoromethane	**2.8**		1.0	0.36	ug/L			09/24/23 15:08	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			09/24/23 15:08	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			09/24/23 15:08	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			09/24/23 15:08	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			09/24/23 15:08	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			09/24/23 15:08	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			09/24/23 15:08	1
o-Xylene	0.26	U	1.0	0.26	ug/L			09/24/23 15:08	1
Styrene	0.27	U	1.0	0.27	ug/L			09/24/23 15:08	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			09/24/23 15:08	1
Toluene	**0.35**	**I**	1.0	0.25	ug/L			09/24/23 15:08	1
trans-1,2-Dichloroethene	**87**		1.0	0.34	ug/L			09/24/23 15:08	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			09/24/23 15:08	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			09/24/23 15:08	1
Trichlorofluoromethane	0.33	U J3	1.0	0.33	ug/L			09/24/23 15:08	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			09/24/23 15:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*60 - 124*		*09/24/23 15:08*	*1*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*		*09/24/23 15:08*	*1*
Dibromofluoromethane (Surr)	*119*		*70 - 130*		*09/24/23 15:08*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*09/24/23 15:08*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**2300**		50	13	ug/L			09/26/23 18:11	50
Vinyl chloride	**2000**		50	20	ug/L			09/26/23 18:11	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*60 - 124*		*09/26/23 18:11*	*50*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*		*09/26/23 18:11*	*50*
Dibromofluoromethane (Surr)	*123*		*70 - 130*		*09/26/23 18:11*	*50*
Toluene-d8 (Surr)	*101*		*70 - 130*		*09/26/23 18:11*	*50*

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27076-1

Client Sample ID: LC34-DPT0918-025.0-20230919
Date Collected: 09/19/23 11:20
Date Received: 09/20/23 08:00

Lab Sample ID: 670-27076-27
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2.1	U	10	2.1	ug/L			09/24/23 15:33	10
1,1,2,2-Tetrachloroethane	4.0	U	10	4.0	ug/L			09/24/23 15:33	10
1,1,2-Trichloro-1,2,2-trifluoroethane	2.3	U	10	2.3	ug/L			09/24/23 15:33	10
1,1,2-Trichloroethane	3.2	U	10	3.2	ug/L			09/24/23 15:33	10
1,1-Dichloroethane	3.3	U	10	3.3	ug/L			09/24/23 15:33	10
1,1-Dichloroethene	3.3	U	10	3.3	ug/L			09/24/23 15:33	10
1,2,4-Trichlorobenzene	5.3	U	50	5.3	ug/L			09/24/23 15:33	10
1,2-Dibromo-3-Chloropropane	18	U	50	18	ug/L			09/24/23 15:33	10
1,2-Dibromoethane (EDB)	3.3	U	10	3.3	ug/L			09/24/23 15:33	10
1,2-Dichlorobenzene	3.1	U	10	3.1	ug/L			09/24/23 15:33	10
1,2-Dichloroethane	2.5	U	10	2.5	ug/L			09/24/23 15:33	10
1,2-Dichloropropane	2.2	U	10	2.2	ug/L			09/24/23 15:33	10
1,3-Dichlorobenzene	3.1	U	10	3.1	ug/L			09/24/23 15:33	10
1,4-Dichlorobenzene	3.1	U	10	3.1	ug/L			09/24/23 15:33	10
2-Butanone (MEK)	64	U J3	100	64	ug/L			09/24/23 15:33	10
2-Hexanone	32	U J3	100	32	ug/L			09/24/23 15:33	10
4-Methyl-2-pentanone	27	U J3	100	27	ug/L			09/24/23 15:33	10
Acetone	37	U J3	100	37	ug/L			09/24/23 15:33	10
Benzene	2.7	U	10	2.7	ug/L			09/24/23 15:33	10
Bromodichloromethane	2.5	U	10	2.5	ug/L			09/24/23 15:33	10
Bromoform	5.9	U	10	5.9	ug/L			09/24/23 15:33	10
Bromomethane	37	U	50	37	ug/L			09/24/23 15:33	10
Carbon disulfide	4.3	U	20	4.3	ug/L			09/24/23 15:33	10
Carbon tetrachloride	3.0	U	10	3.0	ug/L			09/24/23 15:33	10
Chlorobenzene	1.5	U	10	1.5	ug/L			09/24/23 15:33	10
Chloroethane	46	U	50	46	ug/L			09/24/23 15:33	10
Chloroform	2.7	U	10	2.7	ug/L			09/24/23 15:33	10
Chloromethane	5.4	U	10	5.4	ug/L			09/24/23 15:33	10
cis-1,3-Dichloropropene	2.6	U	10	2.6	ug/L			09/24/23 15:33	10
Cyclohexane	2.8	U	10	2.8	ug/L			09/24/23 15:33	10
Dibromochloromethane	3.9	U	10	3.9	ug/L			09/24/23 15:33	10
Dichlorodifluoromethane	3.6	U	10	3.6	ug/L			09/24/23 15:33	10
Ethylbenzene	2.0	U	10	2.0	ug/L			09/24/23 15:33	10
Isopropylbenzene	2.6	U	10	2.6	ug/L			09/24/23 15:33	10
m,p-Xylenes	4.9	U	10	4.9	ug/L			09/24/23 15:33	10
Methyl acetate	32	U	50	32	ug/L			09/24/23 15:33	10
Methyl tert-butyl ether	8.1	U	50	8.1	ug/L			09/24/23 15:33	10
Methylene Chloride	32	U	50	32	ug/L			09/24/23 15:33	10
o-Xylene	2.6	U	10	2.6	ug/L			09/24/23 15:33	10
Styrene	2.7	U	10	2.7	ug/L			09/24/23 15:33	10
Tetrachloroethene	3.5	U	10	3.5	ug/L			09/24/23 15:33	10
Toluene	2.5	U	10	2.5	ug/L			09/24/23 15:33	10
trans-1,2-Dichloroethene	**53**		10	3.4	ug/L			09/24/23 15:33	10
trans-1,3-Dichloropropene	2.3	U	10	2.3	ug/L			09/24/23 15:33	10
Trichloroethene	2.0	U	10	2.0	ug/L			09/24/23 15:33	10
Trichlorofluoromethane	3.3	U J3	10	3.3	ug/L			09/24/23 15:33	10
Xylenes, Total	2.3	U	10	2.3	ug/L			09/24/23 15:33	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*60 - 124*		*09/24/23 15:33*	*10*

Client Sample ID: LC34-DPT0918-025.0-20230919

Lab Sample ID: 670-27076-27

Date Collected: 09/19/23 11:20

Matrix: Water

Date Received: 09/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*		*09/24/23 15:33*	*10*
Dibromofluoromethane (Surr)	*120*		*70 - 130*		*09/24/23 15:33*	*10*
Toluene-d8 (Surr)	*99*		*70 - 130*		*09/24/23 15:33*	*10*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**2300**		50	13	ug/L			09/26/23 18:33	50
Vinyl chloride	**1100**		50	20	ug/L			09/26/23 18:33	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*60 - 124*		*09/26/23 18:33*	*50*
4-Bromofluorobenzene (Surr)	*NaN*		*70 - 130*		*09/26/23 18:33*	*50*
Dibromofluoromethane (Surr)	*122*		*70 - 130*		*09/26/23 18:33*	*50*
Toluene-d8 (Surr)	*111*		*70 - 130*		*09/26/23 18:33*	*50*

Client Sample ID: LC34-DPT0918-034.0-20230919

Lab Sample ID: 670-27076-28

Date Collected: 09/19/23 11:35

Matrix: Water

Date Received: 09/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			09/24/23 15:52	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			09/24/23 15:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			09/24/23 15:52	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			09/24/23 15:52	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			09/24/23 15:52	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			09/24/23 15:52	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			09/24/23 15:52	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			09/24/23 15:52	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			09/24/23 15:52	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 15:52	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			09/24/23 15:52	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			09/24/23 15:52	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 15:52	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 15:52	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			09/24/23 15:52	1
2-Hexanone	3.2	U J3	10	3.2	ug/L			09/24/23 15:52	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			09/24/23 15:52	1
Acetone	3.7	U J3	10	3.7	ug/L			09/24/23 15:52	1
Benzene	0.27	U	1.0	0.27	ug/L			09/24/23 15:52	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			09/24/23 15:52	1
Bromoform	0.59	U	1.0	0.59	ug/L			09/24/23 15:52	1
Bromomethane	3.7	U	5.0	3.7	ug/L			09/24/23 15:52	1
Carbon disulfide	**1.1**	**I**	2.0	0.43	ug/L			09/24/23 15:52	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			09/24/23 15:52	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			09/24/23 15:52	1
Chloroethane	4.6	U	5.0	4.6	ug/L			09/24/23 15:52	1
Chloroform	0.27	U	1.0	0.27	ug/L			09/24/23 15:52	1
Chloromethane	0.54	U	1.0	0.54	ug/L			09/24/23 15:52	1
cis-1,2-Dichloroethene	**40**		1.0	0.25	ug/L			09/24/23 15:52	1

Client Sample ID: LC34-DPT0918-034.0-20230919

Lab Sample ID: 670-27076-28

Date Collected: 09/19/23 11:35

Matrix: Water

Date Received: 09/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			09/24/23 15:52	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			09/24/23 15:52	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			09/24/23 15:52	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			09/24/23 15:52	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			09/24/23 15:52	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			09/24/23 15:52	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			09/24/23 15:52	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			09/24/23 15:52	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			09/24/23 15:52	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			09/24/23 15:52	1
o-Xylene	0.26	U	1.0	0.26	ug/L			09/24/23 15:52	1
Styrene	0.27	U	1.0	0.27	ug/L			09/24/23 15:52	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			09/24/23 15:52	1
Toluene	0.25	U	1.0	0.25	ug/L			09/24/23 15:52	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			09/24/23 15:52	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			09/24/23 15:52	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			09/24/23 15:52	1
Trichlorofluoromethane	0.33	U J3	1.0	0.33	ug/L			09/24/23 15:52	1
Vinyl chloride	**12**		1.0	0.40	ug/L			09/24/23 15:52	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			09/24/23 15:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*60 - 124*		*09/24/23 15:52*	*1*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*		*09/24/23 15:52*	*1*
Dibromofluoromethane (Surr)	*119*		*70 - 130*		*09/24/23 15:52*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*09/24/23 15:52*	*1*

Client Sample ID: LC34-DPT0918-038.0-20230919

Lab Sample ID: 670-27076-29

Date Collected: 09/19/23 11:55

Matrix: Water

Date Received: 09/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			09/24/23 16:11	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			09/24/23 16:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			09/24/23 16:11	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			09/24/23 16:11	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			09/24/23 16:11	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			09/24/23 16:11	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			09/24/23 16:11	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			09/24/23 16:11	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			09/24/23 16:11	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 16:11	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			09/24/23 16:11	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			09/24/23 16:11	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 16:11	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 16:11	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			09/24/23 16:11	1
2-Hexanone	3.2	U J3	10	3.2	ug/L			09/24/23 16:11	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			09/24/23 16:11	1

Client Sample ID: LC34-DPT0918-038.0-20230919

Lab Sample ID: 670-27076-29

Date Collected: 09/19/23 11:55

Matrix: Water

Date Received: 09/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	3.7	U J3	10	3.7	ug/L			09/24/23 16:11	1
Benzene	0.27	U	1.0	0.27	ug/L			09/24/23 16:11	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			09/24/23 16:11	1
Bromoform	0.59	U	1.0	0.59	ug/L			09/24/23 16:11	1
Bromomethane	3.7	U	5.0	3.7	ug/L			09/24/23 16:11	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			09/24/23 16:11	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			09/24/23 16:11	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			09/24/23 16:11	1
Chloroethane	4.6	U	5.0	4.6	ug/L			09/24/23 16:11	1
Chloroform	0.27	U	1.0	0.27	ug/L			09/24/23 16:11	1
Chloromethane	0.54	U	1.0	0.54	ug/L			09/24/23 16:11	1
cis-1,2-Dichloroethene	**2.7**		1.0	0.25	ug/L			09/24/23 16:11	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			09/24/23 16:11	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			09/24/23 16:11	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			09/24/23 16:11	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			09/24/23 16:11	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			09/24/23 16:11	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			09/24/23 16:11	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			09/24/23 16:11	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			09/24/23 16:11	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			09/24/23 16:11	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			09/24/23 16:11	1
o-Xylene	0.26	U	1.0	0.26	ug/L			09/24/23 16:11	1
Styrene	0.27	U	1.0	0.27	ug/L			09/24/23 16:11	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			09/24/23 16:11	1
Toluene	0.25	U	1.0	0.25	ug/L			09/24/23 16:11	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			09/24/23 16:11	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			09/24/23 16:11	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			09/24/23 16:11	1
Trichlorofluoromethane	0.33	U J3	1.0	0.33	ug/L			09/24/23 16:11	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			09/24/23 16:11	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			09/24/23 16:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*60 - 124*		*09/24/23 16:11*	*1*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*		*09/24/23 16:11*	*1*
Dibromofluoromethane (Surr)	*119*		*70 - 130*		*09/24/23 16:11*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*09/24/23 16:11*	*1*

Client Sample ID: LC34-DPT0919-008.0-20230919

Lab Sample ID: 670-27076-30

Date Collected: 09/19/23 12:55

Matrix: Water

Date Received: 09/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			09/24/23 16:30	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			09/24/23 16:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			09/24/23 16:30	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			09/24/23 16:30	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			09/24/23 16:30	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27076-1

Client Sample ID: LC34-DPT0919-008.0-20230919
Date Collected: 09/19/23 12:55
Date Received: 09/20/23 08:00

Lab Sample ID: 670-27076-30
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			09/24/23 16:30	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			09/24/23 16:30	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			09/24/23 16:30	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			09/24/23 16:30	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 16:30	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			09/24/23 16:30	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			09/24/23 16:30	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 16:30	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 16:30	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			09/24/23 16:30	1
2-Hexanone	3.2	U J3	10	3.2	ug/L			09/24/23 16:30	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			09/24/23 16:30	1
Acetone	3.7	U J3	10	3.7	ug/L			09/24/23 16:30	1
Benzene	0.27	U	1.0	0.27	ug/L			09/24/23 16:30	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			09/24/23 16:30	1
Bromoform	0.59	U	1.0	0.59	ug/L			09/24/23 16:30	1
Bromomethane	3.7	U	5.0	3.7	ug/L			09/24/23 16:30	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			09/24/23 16:30	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			09/24/23 16:30	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			09/24/23 16:30	1
Chloroethane	4.6	U	5.0	4.6	ug/L			09/24/23 16:30	1
Chloroform	0.27	U	1.0	0.27	ug/L			09/24/23 16:30	1
Chloromethane	0.54	U	1.0	0.54	ug/L			09/24/23 16:30	1
cis-1,2-Dichloroethene	**7.4**		1.0	0.25	ug/L			09/24/23 16:30	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			09/24/23 16:30	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			09/24/23 16:30	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			09/24/23 16:30	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			09/24/23 16:30	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			09/24/23 16:30	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			09/24/23 16:30	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			09/24/23 16:30	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			09/24/23 16:30	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			09/24/23 16:30	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			09/24/23 16:30	1
o-Xylene	0.26	U	1.0	0.26	ug/L			09/24/23 16:30	1
Styrene	0.27	U	1.0	0.27	ug/L			09/24/23 16:30	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			09/24/23 16:30	1
Toluene	0.25	U	1.0	0.25	ug/L			09/24/23 16:30	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			09/24/23 16:30	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			09/24/23 16:30	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			09/24/23 16:30	1
Trichlorofluoromethane	0.33	U J3	1.0	0.33	ug/L			09/24/23 16:30	1
Vinyl chloride	**60**		1.0	0.40	ug/L			09/24/23 16:30	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			09/24/23 16:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*117*		*60 - 124*		*09/24/23 16:30*	*1*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*		*09/24/23 16:30*	*1*
Dibromofluoromethane (Surr)	*118*		*70 - 130*		*09/24/23 16:30*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*09/24/23 16:30*	*1*

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27076-1

Client Sample ID: LC34-DPT0919-013.0-20230919
Date Collected: 09/19/23 13:10
Date Received: 09/20/23 08:00

Lab Sample ID: 670-27076-31
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.42	U	2.0	0.42	ug/L			09/24/23 16:49	2
1,1,2,2-Tetrachloroethane	0.80	U	2.0	0.80	ug/L			09/24/23 16:49	2
1,1,2-Trichloro-1,2,2-trifluoroethane	0.46	U	2.0	0.46	ug/L			09/24/23 16:49	2
1,1,2-Trichloroethane	0.64	U	2.0	0.64	ug/L			09/24/23 16:49	2
1,1-Dichloroethane	0.66	U	2.0	0.66	ug/L			09/24/23 16:49	2
1,1-Dichloroethene	0.66	U	2.0	0.66	ug/L			09/24/23 16:49	2
1,2,4-Trichlorobenzene	1.1	U	10	1.1	ug/L			09/24/23 16:49	2
1,2-Dibromo-3-Chloropropane	3.6	U	10	3.6	ug/L			09/24/23 16:49	2
1,2-Dibromoethane (EDB)	0.66	U	2.0	0.66	ug/L			09/24/23 16:49	2
1,2-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			09/24/23 16:49	2
1,2-Dichloroethane	0.50	U	2.0	0.50	ug/L			09/24/23 16:49	2
1,2-Dichloropropane	0.44	U	2.0	0.44	ug/L			09/24/23 16:49	2
1,3-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			09/24/23 16:49	2
1,4-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			09/24/23 16:49	2
2-Butanone (MEK)	13	U J3	20	13	ug/L			09/24/23 16:49	2
2-Hexanone	6.4	U J3	20	6.4	ug/L			09/24/23 16:49	2
4-Methyl-2-pentanone	5.4	U J3	20	5.4	ug/L			09/24/23 16:49	2
Acetone	7.4	U J3	20	7.4	ug/L			09/24/23 16:49	2
Benzene	0.54	U	2.0	0.54	ug/L			09/24/23 16:49	2
Bromodichloromethane	0.50	U	2.0	0.50	ug/L			09/24/23 16:49	2
Bromoform	1.2	U	2.0	1.2	ug/L			09/24/23 16:49	2
Bromomethane	7.4	U	10	7.4	ug/L			09/24/23 16:49	2
Carbon disulfide	0.86	U	4.0	0.86	ug/L			09/24/23 16:49	2
Carbon tetrachloride	0.60	U	2.0	0.60	ug/L			09/24/23 16:49	2
Chlorobenzene	0.30	U	2.0	0.30	ug/L			09/24/23 16:49	2
Chloroethane	9.2	U	10	9.2	ug/L			09/24/23 16:49	2
Chloroform	0.54	U	2.0	0.54	ug/L			09/24/23 16:49	2
Chloromethane	1.1	U	2.0	1.1	ug/L			09/24/23 16:49	2
cis-1,2-Dichloroethene	**25**		2.0	0.50	ug/L			09/24/23 16:49	2
cis-1,3-Dichloropropene	0.52	U	2.0	0.52	ug/L			09/24/23 16:49	2
Cyclohexane	0.56	U	2.0	0.56	ug/L			09/24/23 16:49	2
Dibromochloromethane	0.78	U	2.0	0.78	ug/L			09/24/23 16:49	2
Dichlorodifluoromethane	0.72	U	2.0	0.72	ug/L			09/24/23 16:49	2
Ethylbenzene	0.40	U	2.0	0.40	ug/L			09/24/23 16:49	2
Isopropylbenzene	0.52	U	2.0	0.52	ug/L			09/24/23 16:49	2
m,p-Xylenes	0.98	U	2.0	0.98	ug/L			09/24/23 16:49	2
Methyl acetate	6.4	U	10	6.4	ug/L			09/24/23 16:49	2
Methyl tert-butyl ether	1.6	U	10	1.6	ug/L			09/24/23 16:49	2
Methylene Chloride	6.4	U	10	6.4	ug/L			09/24/23 16:49	2
o-Xylene	0.52	U	2.0	0.52	ug/L			09/24/23 16:49	2
Styrene	0.54	U	2.0	0.54	ug/L			09/24/23 16:49	2
Tetrachloroethene	0.70	U	2.0	0.70	ug/L			09/24/23 16:49	2
Toluene	0.50	U	2.0	0.50	ug/L			09/24/23 16:49	2
trans-1,2-Dichloroethene	0.68	U	2.0	0.68	ug/L			09/24/23 16:49	2
trans-1,3-Dichloropropene	0.46	U	2.0	0.46	ug/L			09/24/23 16:49	2
Trichloroethene	0.40	U	2.0	0.40	ug/L			09/24/23 16:49	2
Trichlorofluoromethane	0.66	U J3	2.0	0.66	ug/L			09/24/23 16:49	2
Vinyl chloride	**330**		2.0	0.80	ug/L			09/24/23 16:49	2
Xylenes, Total	0.46	U	2.0	0.46	ug/L			09/24/23 16:49	2

Client Sample ID: LC34-DPT0919-013.0-20230919
Lab Sample ID: 670-27076-31
Date Collected: 09/19/23 13:10
Matrix: Water
Date Received: 09/20/23 08:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		60 - 124		09/24/23 16:49	2
4-Bromofluorobenzene (Surr)	89		70 - 130		09/24/23 16:49	2
Dibromofluoromethane (Surr)	120		70 - 130		09/24/23 16:49	2
Toluene-d8 (Surr)	101		70 - 130		09/24/23 16:49	2

Client Sample ID: LC34-DPT0919-018.0-20230919
Lab Sample ID: 670-27076-32
Date Collected: 09/19/23 13:25
Matrix: Water
Date Received: 09/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	5.0	1.1	ug/L			09/24/23 17:10	5
1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	ug/L			09/24/23 17:10	5
1,1,2-Trichloro-1,2,2-trifluoroethane	1.2	U	5.0	1.2	ug/L			09/24/23 17:10	5
1,1,2-Trichloroethane	1.6	U	5.0	1.6	ug/L			09/24/23 17:10	5
1,1-Dichloroethane	1.7	U	5.0	1.7	ug/L			09/24/23 17:10	5
1,1-Dichloroethene	**3.4**	**I**	5.0	1.7	ug/L			09/24/23 17:10	5
1,2,4-Trichlorobenzene	2.7	U	25	2.7	ug/L			09/24/23 17:10	5
1,2-Dibromo-3-Chloropropane	9.0	U	25	9.0	ug/L			09/24/23 17:10	5
1,2-Dibromoethane (EDB)	1.7	U	5.0	1.7	ug/L			09/24/23 17:10	5
1,2-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			09/24/23 17:10	5
1,2-Dichloroethane	1.3	U	5.0	1.3	ug/L			09/24/23 17:10	5
1,2-Dichloropropane	1.1	U	5.0	1.1	ug/L			09/24/23 17:10	5
1,3-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			09/24/23 17:10	5
1,4-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			09/24/23 17:10	5
2-Butanone (MEK)	32	U J3	50	32	ug/L			09/24/23 17:10	5
2-Hexanone	16	U J3	50	16	ug/L			09/24/23 17:10	5
4-Methyl-2-pentanone	14	U J3	50	14	ug/L			09/24/23 17:10	5
Acetone	19	U J3	50	19	ug/L			09/24/23 17:10	5
Benzene	1.4	U	5.0	1.4	ug/L			09/24/23 17:10	5
Bromodichloromethane	1.3	U	5.0	1.3	ug/L			09/24/23 17:10	5
Bromoform	3.0	U	5.0	3.0	ug/L			09/24/23 17:10	5
Bromomethane	19	U	25	19	ug/L			09/24/23 17:10	5
Carbon disulfide	2.2	U	10	2.2	ug/L			09/24/23 17:10	5
Carbon tetrachloride	1.5	U	5.0	1.5	ug/L			09/24/23 17:10	5
Chlorobenzene	0.75	U	5.0	0.75	ug/L			09/24/23 17:10	5
Chloroethane	23	U	25	23	ug/L			09/24/23 17:10	5
Chloroform	1.4	U	5.0	1.4	ug/L			09/24/23 17:10	5
Chloromethane	2.7	U	5.0	2.7	ug/L			09/24/23 17:10	5
cis-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			09/24/23 17:10	5
Cyclohexane	1.4	U	5.0	1.4	ug/L			09/24/23 17:10	5
Dibromochloromethane	2.0	U	5.0	2.0	ug/L			09/24/23 17:10	5
Dichlorodifluoromethane	1.8	U	5.0	1.8	ug/L			09/24/23 17:10	5
Ethylbenzene	1.0	U	5.0	1.0	ug/L			09/24/23 17:10	5
Isopropylbenzene	1.3	U	5.0	1.3	ug/L			09/24/23 17:10	5
m,p-Xylenes	2.5	U	5.0	2.5	ug/L			09/24/23 17:10	5
Methyl acetate	16	U	25	16	ug/L			09/24/23 17:10	5
Methyl tert-butyl ether	4.1	U	25	4.1	ug/L			09/24/23 17:10	5
Methylene Chloride	16	U	25	16	ug/L			09/24/23 17:10	5
o-Xylene	1.3	U	5.0	1.3	ug/L			09/24/23 17:10	5

Client Sample ID: LC34-DPT0919-018.0-20230919

Lab Sample ID: 670-27076-32

Date Collected: 09/19/23 13:25

Matrix: Water

Date Received: 09/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	1.4	U	5.0	1.4	ug/L			09/24/23 17:10	5
Tetrachloroethene	1.8	U	5.0	1.8	ug/L			09/24/23 17:10	5
Toluene	1.3	U	5.0	1.3	ug/L			09/24/23 17:10	5
trans-1,2-Dichloroethene	**53**		5.0	1.7	ug/L			09/24/23 17:10	5
trans-1,3-Dichloropropene	1.2	U	5.0	1.2	ug/L			09/24/23 17:10	5
Trichloroethene	1.0	U	5.0	1.0	ug/L			09/24/23 17:10	5
Trichlorofluoromethane	1.7	U J3	5.0	1.7	ug/L			09/24/23 17:10	5
Xylenes, Total	1.2	U	5.0	1.2	ug/L			09/24/23 17:10	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*60 - 124*		*09/24/23 17:10*	*5*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*		*09/24/23 17:10*	*5*
Dibromofluoromethane (Surr)	*119*		*70 - 130*		*09/24/23 17:10*	*5*
Toluene-d8 (Surr)	*97*		*70 - 130*		*09/24/23 17:10*	*5*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**1700**		25	6.3	ug/L			09/27/23 18:46	25
Vinyl chloride	**2200**		25	10	ug/L			09/27/23 18:46	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 124*		*09/27/23 18:46*	*25*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*		*09/27/23 18:46*	*25*
Dibromofluoromethane (Surr)	*113*		*70 - 130*		*09/27/23 18:46*	*25*
Toluene-d8 (Surr)	*96*		*70 - 130*		*09/27/23 18:46*	*25*

Client Sample ID: LC34-DPT0919-025.0-20230919

Lab Sample ID: 670-27076-33

Date Collected: 09/19/23 13:40

Matrix: Water

Date Received: 09/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	5.0	1.1	ug/L			09/24/23 17:32	5
1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	ug/L			09/24/23 17:32	5
1,1,2-Trichloro-1,2,2-trifluoroethane	1.2	U	5.0	1.2	ug/L			09/24/23 17:32	5
1,1,2-Trichloroethane	1.6	U	5.0	1.6	ug/L			09/24/23 17:32	5
1,1-Dichloroethane	1.7	U	5.0	1.7	ug/L			09/24/23 17:32	5
1,1-Dichloroethene	**4.8**	**I**	5.0	1.7	ug/L			09/24/23 17:32	5
1,2,4-Trichlorobenzene	2.7	U	25	2.7	ug/L			09/24/23 17:32	5
1,2-Dibromo-3-Chloropropane	9.0	U	25	9.0	ug/L			09/24/23 17:32	5
1,2-Dibromoethane (EDB)	1.7	U	5.0	1.7	ug/L			09/24/23 17:32	5
1,2-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			09/24/23 17:32	5
1,2-Dichloroethane	1.3	U	5.0	1.3	ug/L			09/24/23 17:32	5
1,2-Dichloropropane	1.1	U	5.0	1.1	ug/L			09/24/23 17:32	5
1,3-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			09/24/23 17:32	5
1,4-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			09/24/23 17:32	5
2-Butanone (MEK)	32	U J3	50	32	ug/L			09/24/23 17:32	5
2-Hexanone	16	U J3	50	16	ug/L			09/24/23 17:32	5
4-Methyl-2-pentanone	14	U J3	50	14	ug/L			09/24/23 17:32	5
Acetone	19	U J3	50	19	ug/L			09/24/23 17:32	5
Benzene	1.4	U	5.0	1.4	ug/L			09/24/23 17:32	5

Client Sample ID: LC34-DPT0919-025.0-20230919
Date Collected: 09/19/23 13:40
Date Received: 09/20/23 08:00

Lab Sample ID: 670-27076-33
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	1.3	U	5.0	1.3	ug/L			09/24/23 17:32	5
Bromoform	3.0	U	5.0	3.0	ug/L			09/24/23 17:32	5
Bromomethane	19	U	25	19	ug/L			09/24/23 17:32	5
Carbon disulfide	2.2	U	10	2.2	ug/L			09/24/23 17:32	5
Carbon tetrachloride	1.5	U	5.0	1.5	ug/L			09/24/23 17:32	5
Chlorobenzene	0.75	U	5.0	0.75	ug/L			09/24/23 17:32	5
Chloroethane	23	U	25	23	ug/L			09/24/23 17:32	5
Chloroform	1.4	U	5.0	1.4	ug/L			09/24/23 17:32	5
Chloromethane	2.7	U	5.0	2.7	ug/L			09/24/23 17:32	5
cis-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			09/24/23 17:32	5
Cyclohexane	1.4	U	5.0	1.4	ug/L			09/24/23 17:32	5
Dibromochloromethane	2.0	U	5.0	2.0	ug/L			09/24/23 17:32	5
Dichlorodifluoromethane	1.8	U	5.0	1.8	ug/L			09/24/23 17:32	5
Ethylbenzene	1.0	U	5.0	1.0	ug/L			09/24/23 17:32	5
Isopropylbenzene	1.3	U	5.0	1.3	ug/L			09/24/23 17:32	5
m,p-Xylenes	2.5	U	5.0	2.5	ug/L			09/24/23 17:32	5
Methyl acetate	16	U	25	16	ug/L			09/24/23 17:32	5
Methyl tert-butyl ether	4.1	U	25	4.1	ug/L			09/24/23 17:32	5
Methylene Chloride	16	U	25	16	ug/L			09/24/23 17:32	5
o-Xylene	1.3	U	5.0	1.3	ug/L			09/24/23 17:32	5
Styrene	1.4	U	5.0	1.4	ug/L			09/24/23 17:32	5
Tetrachloroethene	1.8	U	5.0	1.8	ug/L			09/24/23 17:32	5
Toluene	1.3	U	5.0	1.3	ug/L			09/24/23 17:32	5
trans-1,2-Dichloroethene	**79**		5.0	1.7	ug/L			09/24/23 17:32	5
trans-1,3-Dichloropropene	1.2	U	5.0	1.2	ug/L			09/24/23 17:32	5
Trichloroethene	1.0	U	5.0	1.0	ug/L			09/24/23 17:32	5
Trichlorofluoromethane	1.7	U J3	5.0	1.7	ug/L			09/24/23 17:32	5
Xylenes, Total	1.2	U	5.0	1.2	ug/L			09/24/23 17:32	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*119*		*60 - 124*		*09/24/23 17:32*	*5*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*		*09/24/23 17:32*	*5*
Dibromofluoromethane (Surr)	*120*		*70 - 130*		*09/24/23 17:32*	*5*
Toluene-d8 (Surr)	*96*		*70 - 130*		*09/24/23 17:32*	*5*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**2100**		25	6.3	ug/L			09/27/23 19:07	25
Vinyl chloride	**2500**		25	10	ug/L			09/27/23 19:07	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 124*		*09/27/23 19:07*	*25*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*		*09/27/23 19:07*	*25*
Dibromofluoromethane (Surr)	*112*		*70 - 130*		*09/27/23 19:07*	*25*
Toluene-d8 (Surr)	*97*		*70 - 130*		*09/27/23 19:07*	*25*

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27076-1

Client Sample ID: LC34-DPT0917-038.0-20230919
Date Collected: 09/19/23 09:30
Date Received: 09/20/23 08:00

Lab Sample ID: 670-27076-34
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			09/24/23 17:51	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			09/24/23 17:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			09/24/23 17:51	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			09/24/23 17:51	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			09/24/23 17:51	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			09/24/23 17:51	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			09/24/23 17:51	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			09/24/23 17:51	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			09/24/23 17:51	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 17:51	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			09/24/23 17:51	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			09/24/23 17:51	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 17:51	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 17:51	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			09/24/23 17:51	1
2-Hexanone	3.2	U J3	10	3.2	ug/L			09/24/23 17:51	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			09/24/23 17:51	1
Acetone	3.7	U J3	10	3.7	ug/L			09/24/23 17:51	1
Benzene	0.27	U	1.0	0.27	ug/L			09/24/23 17:51	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			09/24/23 17:51	1
Bromoform	0.59	U	1.0	0.59	ug/L			09/24/23 17:51	1
Bromomethane	3.7	U	5.0	3.7	ug/L			09/24/23 17:51	1
Carbon disulfide	**1.0**	**I**	2.0	0.43	ug/L			09/24/23 17:51	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			09/24/23 17:51	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			09/24/23 17:51	1
Chloroethane	4.6	U	5.0	4.6	ug/L			09/24/23 17:51	1
Chloroform	0.27	U	1.0	0.27	ug/L			09/24/23 17:51	1
Chloromethane	0.54	U	1.0	0.54	ug/L			09/24/23 17:51	1
cis-1,2-Dichloroethene	**0.70**	**I**	1.0	0.25	ug/L			09/27/23 19:26	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			09/24/23 17:51	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			09/24/23 17:51	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			09/24/23 17:51	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			09/24/23 17:51	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			09/24/23 17:51	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			09/24/23 17:51	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			09/24/23 17:51	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			09/24/23 17:51	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			09/24/23 17:51	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			09/24/23 17:51	1
o-Xylene	0.26	U	1.0	0.26	ug/L			09/24/23 17:51	1
Styrene	0.27	U	1.0	0.27	ug/L			09/24/23 17:51	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			09/24/23 17:51	1
Toluene	0.25	U	1.0	0.25	ug/L			09/24/23 17:51	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			09/24/23 17:51	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			09/24/23 17:51	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			09/24/23 17:51	1
Trichlorofluoromethane	0.33	U J3	1.0	0.33	ug/L			09/24/23 17:51	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			09/27/23 19:26	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			09/24/23 17:51	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27076-1

Client Sample ID: LC34-DPT0917-038.0-20230919
Date Collected: 09/19/23 09:30
Date Received: 09/20/23 08:00

Lab Sample ID: 670-27076-34
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	117		60 - 124		09/24/23 17:51	1
1,2-Dichloroethane-d4 (Surr)	100		60 - 124		09/27/23 19:26	1
4-Bromofluorobenzene (Surr)	84		70 - 130		09/24/23 17:51	1
4-Bromofluorobenzene (Surr)	88		70 - 130		09/27/23 19:26	1
Dibromofluoromethane (Surr)	120		70 - 130		09/24/23 17:51	1
Dibromofluoromethane (Surr)	113		70 - 130		09/27/23 19:26	1
Toluene-d8 (Surr)	99		70 - 130		09/24/23 17:51	1
Toluene-d8 (Surr)	99		70 - 130		09/27/23 19:26	1

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27076-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(60-124)	(70-130)	(70-130)	(70-130)
670-27076-1	LC34-DPT0914-008.0-20230918	90	104	102	115
670-27076-2	LC34-DPT0914-013.0-20230918	91	101	103	117
670-27076-3	LC34-DPT0914-018.0-20230918	96	107	103	115
670-27076-4	LC34-DPT0914-025.0-20230918	94	102	104	112
670-27076-4 - DL	LC34-DPT0914-025.0-20230918	114	85	120	98
670-27076-5	LC34-DPT0914-034.0-20230918	93	99	103	115
670-27076-5	LC34-DPT0914-034.0-20230918	115	89	121	102
670-27076-6	LC34-DPT0914-038.0-20230918	92	101	104	111
670-27076-7	LC34-DPT0915-008.0-20230918	95	104	104	116
670-27076-8	LC34-DPT0915-013.0-20230918	93	104	102	113
670-27076-8 - DL	LC34-DPT0915-013.0-20230918	114	86	119	95
670-27076-9	LC34-DPT0915-018.0-20230918	92	102	106	113
670-27076-9 - DL	LC34-DPT0915-018.0-20230918	118	87	119	95
670-27076-10	LC34-DPT0915-025.0-20230918	95	101	105	114
670-27076-10 - DL	LC34-DPT0915-025.0-20230918	115	84	121	98
670-27076-11	LC34-DPT0915-034.0-20230918	93	101	104	112
670-27076-11	LC34-DPT0915-034.0-20230918	115	91	121	101
670-27076-12	LC34-DPT0915-038.0-20230918	95	103	106	112
670-27076-13	LC34-DPT0916-008.0-20230918	94	102	104	117
670-27076-14	LC34-DPT0916-013.0-20230918	95	105	106	113
670-27076-14 - DL	LC34-DPT0916-013.0-20230918	118	87	122	97
670-27076-15	LC34-DPT0916-018.0-20230918	95	101	104	113
670-27076-15 - DL	LC34-DPT0916-018.0-20230918	116	88	121	98
670-27076-16	LC34-DPT0916-025.0-20230918	97	107	107	113
670-27076-16	LC34-DPT0916-025.0-20230918	115	84	120	98
670-27076-17	LC34-DPT0916-034.0-20230918	93	104	103	113
670-27076-18	LC34-DPT0916-038.0-20230918	96	104	105	113
670-27076-19	LC34-DPT0917-008.0-20230919	96	102	107	114

Surrogate Summary

Client: Tetra Tech, Inc.
Job ID: 670-27076-1
Project/Site: NASA KSC LC34 DPT

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Matrix: Water
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(60-124)	(70-130)	(70-130)	(70-130)
670-27076-20	LC34-DPT0917-013.0-20230919	94	104	105	117
670-27076-20 - DL	LC34-DPT0917-013.0-20230919	116	85	120	97
670-27076-21	LC34-DPT0917-018.0-20230919	96	102	107	115
670-27076-21 - DL	LC34-DPT0917-018.0-20230919	115	87	123	98
670-27076-22	LC34-DPT0917-025.0-20230919	96	102	104	109
670-27076-22 - DL	LC34-DPT0917-025.0-20230919	114	84	120	99
670-27076-23	LC34-DPT0917-034.0-20230919	97	100	108	113
670-27076-24	LC34-DPT0918-008.0-20230919	96	101	104	113
670-27076-25	LC34-DPT0918-013.0-20230919	93	100	105	110
670-27076-25 - DL	LC34-DPT0918-013.0-20230919	115	83	123	97
670-27076-26	LC34-DPT0918-018.0-20230919	116	87	119	101
670-27076-26 - DL	LC34-DPT0918-018.0-20230919	114	86	123	101
670-27076-27	LC34-DPT0918-025.0-20230919	116	86	120	99
670-27076-27 - DL	LC34-DPT0918-025.0-20230919	113	NaN	122	111
670-27076-28	LC34-DPT0918-034.0-20230919	113	87	119	100
670-27076-29	LC34-DPT0918-038.0-20230919	114	85	119	99
670-27076-30	LC34-DPT0919-008.0-20230919	117	87	118	100
670-27076-31	LC34-DPT0919-013.0-20230919	116	89	120	101
670-27076-32	LC34-DPT0919-018.0-20230919	114	87	119	97
670-27076-32 - DL	LC34-DPT0919-018.0-20230919	100	85	113	96
670-27076-33	LC34-DPT0919-025.0-20230919	119	86	120	96
670-27076-33 - DL	LC34-DPT0919-025.0-20230919	99	86	112	97
670-27076-34	LC34-DPT0917-038.0-20230919	117	84	120	99
670-27076-34	LC34-DPT0917-038.0-20230919	100	88	113	99
LCS 680-799355/4	Lab Control Sample	98	92	108	108
LCS 680-799359/4	Lab Control Sample	114	92	112	89
LCS 680-799638/3	Lab Control Sample	109	86	110	98
LCS 680-799831/3	Lab Control Sample	102	90	103	94
LCSD 680-799355/5	Lab Control Sample Dup	95	97	105	105
LCSD 680-799359/5	Lab Control Sample Dup	112	100	109	88
LCSD 680-799638/4	Lab Control Sample Dup	121	89	113	95
LCSD 680-799831/4	Lab Control Sample Dup	98	89	104	96
MB 680-799355/8	Method Blank	90	105	103	116

Surrogate Summary

Client: Tetra Tech, Inc.
Job ID: 670-27076-1
Project/Site: NASA KSC LC34 DPT

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Matrix: Water
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(60-124)	(70-130)	(70-130)	(70-130)
MB 680-799359/9	Method Blank	117	87	121	99
MB 680-799638/7	Method Blank	119	82	122	101
MB 680-799831/7	Method Blank	103	86	114	95

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27076-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 680-799355/8
Matrix: Water
Analysis Batch: 799355

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			09/24/23 13:38	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			09/24/23 13:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			09/24/23 13:38	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			09/24/23 13:38	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			09/24/23 13:38	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			09/24/23 13:38	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			09/24/23 13:38	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			09/24/23 13:38	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			09/24/23 13:38	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 13:38	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			09/24/23 13:38	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			09/24/23 13:38	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 13:38	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 13:38	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			09/24/23 13:38	1
2-Hexanone	3.2	U	10	3.2	ug/L			09/24/23 13:38	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			09/24/23 13:38	1
Acetone	3.7	U	10	3.7	ug/L			09/24/23 13:38	1
Benzene	0.27	U	1.0	0.27	ug/L			09/24/23 13:38	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			09/24/23 13:38	1
Bromoform	0.59	U	1.0	0.59	ug/L			09/24/23 13:38	1
Bromomethane	3.7	U	5.0	3.7	ug/L			09/24/23 13:38	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			09/24/23 13:38	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			09/24/23 13:38	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			09/24/23 13:38	1
Chloroethane	4.6	U	5.0	4.6	ug/L			09/24/23 13:38	1
Chloroform	0.27	U	1.0	0.27	ug/L			09/24/23 13:38	1
Chloromethane	0.54	U	1.0	0.54	ug/L			09/24/23 13:38	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			09/24/23 13:38	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			09/24/23 13:38	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			09/24/23 13:38	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			09/24/23 13:38	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			09/24/23 13:38	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			09/24/23 13:38	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			09/24/23 13:38	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			09/24/23 13:38	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			09/24/23 13:38	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			09/24/23 13:38	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			09/24/23 13:38	1
o-Xylene	0.26	U	1.0	0.26	ug/L			09/24/23 13:38	1
Styrene	0.27	U	1.0	0.27	ug/L			09/24/23 13:38	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			09/24/23 13:38	1
Toluene	0.25	U	1.0	0.25	ug/L			09/24/23 13:38	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			09/24/23 13:38	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			09/24/23 13:38	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			09/24/23 13:38	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			09/24/23 13:38	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			09/24/23 13:38	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-799355/8
Matrix: Water
Analysis Batch: 799355

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	0.23	U	1.0	0.23	ug/L			09/24/23 13:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*60 - 124*		*09/24/23 13:38*	*1*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*09/24/23 13:38*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*09/24/23 13:38*	*1*
Toluene-d8 (Surr)	*116*		*70 - 130*		*09/24/23 13:38*	*1*

Lab Sample ID: LCS 680-799355/4
Matrix: Water
Analysis Batch: 799355

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	55.5		ug/L		111	70 - 130
1,1,2,2-Tetrachloroethane	50.0	56.2		ug/L		112	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	58.7		ug/L		117	63 - 141
1,1,2-Trichloroethane	50.0	50.7		ug/L		101	70 - 130
1,1-Dichloroethane	50.0	51.1		ug/L		102	70 - 130
1,1-Dichloroethene	50.0	56.4		ug/L		113	70 - 130
1,2,4-Trichlorobenzene	50.0	53.1		ug/L		106	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	62.8		ug/L		126	70 - 130
1,2-Dibromoethane (EDB)	50.0	54.5		ug/L		109	70 - 130
1,2-Dichlorobenzene	50.0	51.1		ug/L		102	70 - 130
1,2-Dichloroethane	50.0	49.6		ug/L		99	70 - 130
1,2-Dichloropropane	50.0	51.2		ug/L		102	70 - 130
1,3-Dichlorobenzene	50.0	52.0		ug/L		104	70 - 130
1,4-Dichlorobenzene	50.0	48.2		ug/L		96	70 - 130
2-Butanone (MEK)	250	353	J3	ug/L		141	69 - 120
2-Hexanone	250	330	J3	ug/L		132	70 - 130
4-Methyl-2-pentanone	250	305	J3	ug/L		122	68 - 120
Acetone	250	306	J3	ug/L		122	67 - 120
Benzene	50.0	51.7		ug/L		103	70 - 130
Bromodichloromethane	50.0	49.7		ug/L		99	70 - 130
Bromoform	50.0	49.5		ug/L		99	69 - 129
Bromomethane	50.0	54.3		ug/L		109	28 - 192
Carbon disulfide	50.0	53.5		ug/L		107	70 - 130
Carbon tetrachloride	50.0	52.0		ug/L		104	70 - 130
Chlorobenzene	50.0	50.5		ug/L		101	70 - 130
Chloroethane	50.0	54.9		ug/L		110	31 - 213
Chloroform	50.0	48.4		ug/L		97	70 - 130
Chloromethane	50.0	64.5	J3	ug/L		129	59 - 127
cis-1,2-Dichloroethene	50.0	49.8		ug/L		100	70 - 130
cis-1,3-Dichloropropene	50.0	53.2		ug/L		106	70 - 130
Cyclohexane	50.0	56.9		ug/L		114	23 - 175
Dibromochloromethane	50.0	46.0		ug/L		92	70 - 130
Dichlorodifluoromethane	50.0	61.5		ug/L		123	70 - 130
Ethylbenzene	50.0	53.1		ug/L		106	70 - 130
Isopropylbenzene	50.0	54.5		ug/L		109	70 - 130

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-799355/4
Matrix: Water
Analysis Batch: 799355

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
m,p-Xylenes	50.0	51.3		ug/L		103	70 - 130
Methyl acetate	100	116		ug/L		116	67 - 120
Methyl tert-butyl ether	50.0	49.6		ug/L		99	70 - 130
Methylene Chloride	50.0	48.7		ug/L		97	70 - 130
o-Xylene	50.0	49.9		ug/L		100	70 - 130
Styrene	50.0	53.1		ug/L		106	70 - 130
Tetrachloroethene	50.0	59.3		ug/L		119	70 - 130
Toluene	50.0	48.7		ug/L		97	70 - 130
trans-1,2-Dichloroethene	50.0	53.2		ug/L		106	70 - 130
trans-1,3-Dichloropropene	50.0	45.5		ug/L		91	70 - 130
Trichloroethene	50.0	55.7		ug/L		111	70 - 130
Trichlorofluoromethane	50.0	60.5		ug/L		121	63 - 142
Vinyl chloride	50.0	60.6		ug/L		121	66 - 129
Xylenes, Total	100	101		ug/L		101	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 124*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*
Dibromofluoromethane (Surr)	*108*		*70 - 130*
Toluene-d8 (Surr)	*108*		*70 - 130*

Lab Sample ID: LCSD 680-799355/5
Matrix: Water
Analysis Batch: 799355

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	50.0	53.6		ug/L		107	70 - 130	4	30
1,1,2,2-Tetrachloroethane	50.0	56.8		ug/L		114	70 - 130	1	30
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	57.6		ug/L		115	63 - 141	2	30
1,1,2-Trichloroethane	50.0	49.8		ug/L		100	70 - 130	2	30
1,1-Dichloroethane	50.0	49.6		ug/L		99	70 - 130	3	30
1,1-Dichloroethene	50.0	56.9		ug/L		114	70 - 130	1	20
1,2,4-Trichlorobenzene	50.0	53.7		ug/L		107	70 - 130	1	30
1,2-Dibromo-3-Chloropropane	50.0	63.9		ug/L		128	70 - 130	2	30
1,2-Dibromoethane (EDB)	50.0	53.0		ug/L		106	70 - 130	3	30
1,2-Dichlorobenzene	50.0	51.7		ug/L		103	70 - 130	1	30
1,2-Dichloroethane	50.0	46.9		ug/L		94	70 - 130	6	50
1,2-Dichloropropane	50.0	51.2		ug/L		102	70 - 130	0	20
1,3-Dichlorobenzene	50.0	53.4		ug/L		107	70 - 130	3	30
1,4-Dichlorobenzene	50.0	49.3		ug/L		99	70 - 130	2	30
2-Butanone (MEK)	250	342	J3	ug/L		137	69 - 120	3	30
2-Hexanone	250	328	J3	ug/L		131	70 - 130	1	20
4-Methyl-2-pentanone	250	302	J3	ug/L		121	68 - 120	1	30
Acetone	250	302	J3	ug/L		121	67 - 120	1	30
Benzene	50.0	50.3		ug/L		101	70 - 130	3	30
Bromodichloromethane	50.0	49.9		ug/L		100	70 - 130	0	30
Bromoform	50.0	48.3		ug/L		97	69 - 129	2	30
Bromomethane	50.0	54.5		ug/L		109	28 - 192	0	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-799355/5
Matrix: Water
Analysis Batch: 799355

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon disulfide			50.0	52.6		ug/L		105	70 - 130	2	30
Carbon tetrachloride			50.0	50.2		ug/L		100	70 - 130	4	30
Chlorobenzene			50.0	50.1		ug/L		100	70 - 130	1	30
Chloroethane			50.0	54.7		ug/L		109	31 - 213	0	30
Chloroform			50.0	47.2		ug/L		94	70 - 130	2	30
Chloromethane			50.0	66.6	J3	ug/L		133	59 - 127	3	30
cis-1,2-Dichloroethene			50.0	49.4		ug/L		99	70 - 130	1	30
cis-1,3-Dichloropropene			50.0	51.6		ug/L		103	70 - 130	3	20
Cyclohexane			50.0	55.9		ug/L		112	23 - 175	2	30
Dibromochloromethane			50.0	45.9		ug/L		92	70 - 130	0	30
Dichlorodifluoromethane			50.0	61.1		ug/L		122	70 - 130	1	40
Ethylbenzene			50.0	52.7		ug/L		105	70 - 130	1	20
Isopropylbenzene			50.0	54.4		ug/L		109	70 - 130	0	30
m,p-Xylenes			50.0	51.1		ug/L		102	70 - 130	0	30
Methyl acetate			100	115		ug/L		115	67 - 120	0	30
Methyl tert-butyl ether			50.0	47.5		ug/L		95	70 - 130	4	30
Methylene Chloride			50.0	48.3		ug/L		97	70 - 130	1	30
o-Xylene			50.0	51.4		ug/L		103	70 - 130	3	30
Styrene			50.0	53.8		ug/L		108	70 - 130	1	30
Tetrachloroethene			50.0	60.4		ug/L		121	70 - 130	2	30
Toluene			50.0	49.3		ug/L		99	70 - 130	1	30
trans-1,2-Dichloroethene			50.0	50.9		ug/L		102	70 - 130	4	30
trans-1,3-Dichloropropene			50.0	45.7		ug/L		91	70 - 130	1	30
Trichloroethene			50.0	55.9		ug/L		112	70 - 130	0	30
Trichlorofluoromethane			50.0	59.4		ug/L		119	63 - 142	2	30
Vinyl chloride			50.0	61.4		ug/L		123	66 - 129	1	30
Xylenes, Total			100	103		ug/L		103	70 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
Dibromofluoromethane (Surr)	*105*		*70 - 130*
Toluene-d8 (Surr)	*105*		*70 - 130*

Lab Sample ID: MB 680-799359/9
Matrix: Water
Analysis Batch: 799359

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			09/24/23 14:49	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			09/24/23 14:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			09/24/23 14:49	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			09/24/23 14:49	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			09/24/23 14:49	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			09/24/23 14:49	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			09/24/23 14:49	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			09/24/23 14:49	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			09/24/23 14:49	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-799359/9
Matrix: Water
Analysis Batch: 799359

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 14:49	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			09/24/23 14:49	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			09/24/23 14:49	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 14:49	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/24/23 14:49	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			09/24/23 14:49	1
2-Hexanone	3.2	U	10	3.2	ug/L			09/24/23 14:49	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			09/24/23 14:49	1
Acetone	3.7	U	10	3.7	ug/L			09/24/23 14:49	1
Benzene	0.27	U	1.0	0.27	ug/L			09/24/23 14:49	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			09/24/23 14:49	1
Bromoform	0.59	U	1.0	0.59	ug/L			09/24/23 14:49	1
Bromomethane	3.7	U	5.0	3.7	ug/L			09/24/23 14:49	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			09/24/23 14:49	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			09/24/23 14:49	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			09/24/23 14:49	1
Chloroethane	4.6	U	5.0	4.6	ug/L			09/24/23 14:49	1
Chloroform	0.27	U	1.0	0.27	ug/L			09/24/23 14:49	1
Chloromethane	0.54	U	1.0	0.54	ug/L			09/24/23 14:49	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			09/24/23 14:49	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			09/24/23 14:49	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			09/24/23 14:49	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			09/24/23 14:49	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			09/24/23 14:49	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			09/24/23 14:49	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			09/24/23 14:49	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			09/24/23 14:49	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			09/24/23 14:49	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			09/24/23 14:49	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			09/24/23 14:49	1
o-Xylene	0.26	U	1.0	0.26	ug/L			09/24/23 14:49	1
Styrene	0.27	U	1.0	0.27	ug/L			09/24/23 14:49	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			09/24/23 14:49	1
Toluene	0.25	U	1.0	0.25	ug/L			09/24/23 14:49	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			09/24/23 14:49	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			09/24/23 14:49	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			09/24/23 14:49	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			09/24/23 14:49	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			09/24/23 14:49	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			09/24/23 14:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*117*		*60 - 124*		*09/24/23 14:49*	*1*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*		*09/24/23 14:49*	*1*
Dibromofluoromethane (Surr)	*121*		*70 - 130*		*09/24/23 14:49*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*09/24/23 14:49*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-799359/4
Matrix: Water
Analysis Batch: 799359

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	55.2		ug/L		110	70 - 130
1,1,2,2-Tetrachloroethane	50.0	57.4		ug/L		115	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	46.4		ug/L		93	63 - 141
1,1,2-Trichloroethane	50.0	52.7		ug/L		105	70 - 130
1,1-Dichloroethane	50.0	52.1		ug/L		104	70 - 130
1,1-Dichloroethene	50.0	49.6		ug/L		99	70 - 130
1,2,4-Trichlorobenzene	50.0	58.0		ug/L		116	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	56.1		ug/L		112	70 - 130
1,2-Dibromoethane (EDB)	50.0	59.3		ug/L		119	70 - 130
1,2-Dichlorobenzene	50.0	48.7		ug/L		97	70 - 130
1,2-Dichloroethane	50.0	54.4		ug/L		109	70 - 130
1,2-Dichloropropane	50.0	46.3		ug/L		93	70 - 130
1,3-Dichlorobenzene	50.0	48.2		ug/L		96	70 - 130
1,4-Dichlorobenzene	50.0	47.3		ug/L		95	70 - 130
2-Butanone (MEK)	250	349	J3	ug/L		140	69 - 120
2-Hexanone	250	342	J3	ug/L		137	70 - 130
4-Methyl-2-pentanone	250	304	J3	ug/L		122	68 - 120
Acetone	250	314	J3	ug/L		126	67 - 120
Benzene	50.0	46.7		ug/L		93	70 - 130
Bromodichloromethane	50.0	53.9		ug/L		108	70 - 130
Bromoform	50.0	51.3		ug/L		103	69 - 129
Bromomethane	50.0	61.0		ug/L		122	28 - 192
Carbon disulfide	50.0	40.5		ug/L		81	70 - 130
Carbon tetrachloride	50.0	58.5		ug/L		117	70 - 130
Chlorobenzene	50.0	50.7		ug/L		101	70 - 130
Chloroethane	50.0	42.5		ug/L		85	31 - 213
Chloroform	50.0	51.8		ug/L		104	70 - 130
Chloromethane	50.0	32.9		ug/L		66	59 - 127
cis-1,2-Dichloroethene	50.0	52.9		ug/L		106	70 - 130
cis-1,3-Dichloropropene	50.0	50.9		ug/L		102	70 - 130
Cyclohexane	50.0	46.6		ug/L		93	23 - 175
Dibromochloromethane	50.0	56.3		ug/L		113	70 - 130
Dichlorodifluoromethane	50.0	44.6		ug/L		89	70 - 130
Ethylbenzene	50.0	49.2		ug/L		98	70 - 130
Isopropylbenzene	50.0	50.6		ug/L		101	70 - 130
m,p-Xylenes	50.0	49.3		ug/L		99	70 - 130
Methyl acetate	100	105		ug/L		105	67 - 120
Methyl tert-butyl ether	50.0	54.0		ug/L		108	70 - 130
Methylene Chloride	50.0	48.9		ug/L		98	70 - 130
o-Xylene	50.0	48.9		ug/L		98	70 - 130
Styrene	50.0	50.4		ug/L		101	70 - 130
Tetrachloroethene	50.0	53.7		ug/L		107	70 - 130
Toluene	50.0	48.2		ug/L		96	70 - 130
trans-1,2-Dichloroethene	50.0	52.3		ug/L		105	70 - 130
trans-1,3-Dichloropropene	50.0	55.9		ug/L		112	70 - 130
Trichloroethene	50.0	51.1		ug/L		102	70 - 130
Trichlorofluoromethane	50.0	25.1	J3	ug/L		50	63 - 142
Vinyl chloride	50.0	42.2		ug/L		84	66 - 129

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-799359/4
Matrix: Water
Analysis Batch: 799359

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Xylenes, Total			100	98.2		ug/L		98	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*114*		*60 - 124*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*
Dibromofluoromethane (Surr)	*112*		*70 - 130*
Toluene-d8 (Surr)	*89*		*70 - 130*

Lab Sample ID: LCSD 680-799359/5
Matrix: Water
Analysis Batch: 799359

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane			50.0	54.4		ug/L		109	70 - 130	2	30
1,1,2,2-Tetrachloroethane			50.0	51.2		ug/L		102	70 - 130	11	30
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	43.9		ug/L		88	63 - 141	6	30
1,1,2-Trichloroethane			50.0	47.6		ug/L		95	70 - 130	10	30
1,1-Dichloroethane			50.0	45.1		ug/L		90	70 - 130	14	30
1,1-Dichloroethene			50.0	40.4		ug/L		81	70 - 130	20	20
1,2,4-Trichlorobenzene			50.0	59.0		ug/L		118	70 - 130	2	30
1,2-Dibromo-3-Chloropropane			50.0	62.2		ug/L		124	70 - 130	10	30
1,2-Dibromoethane (EDB)			50.0	54.0		ug/L		108	70 - 130	9	30
1,2-Dichlorobenzene			50.0	49.6		ug/L		99	70 - 130	2	30
1,2-Dichloroethane			50.0	55.1		ug/L		110	70 - 130	1	50
1,2-Dichloropropane			50.0	44.4		ug/L		89	70 - 130	4	20
1,3-Dichlorobenzene			50.0	48.6		ug/L		97	70 - 130	1	30
1,4-Dichlorobenzene			50.0	48.3		ug/L		97	70 - 130	2	30
2-Butanone (MEK)			250	316	J3	ug/L		126	69 - 120	10	30
2-Hexanone			250	314		ug/L		126	70 - 130	9	20
4-Methyl-2-pentanone			250	283		ug/L		113	68 - 120	7	30
Acetone			250	297		ug/L		119	67 - 120	6	30
Benzene			50.0	47.1		ug/L		94	70 - 130	1	30
Bromodichloromethane			50.0	49.6		ug/L		99	70 - 130	8	30
Bromoform			50.0	50.4		ug/L		101	69 - 129	2	30
Bromomethane			50.0	56.2		ug/L		112	28 - 192	8	30
Carbon disulfide			50.0	41.6		ug/L		83	70 - 130	3	30
Carbon tetrachloride			50.0	56.6		ug/L		113	70 - 130	3	30
Chlorobenzene			50.0	50.2		ug/L		100	70 - 130	1	30
Chloroethane			50.0	46.4		ug/L		93	31 - 213	9	30
Chloroform			50.0	48.5		ug/L		97	70 - 130	7	30
Chloromethane			50.0	31.2		ug/L		62	59 - 127	6	30
cis-1,2-Dichloroethene			50.0	47.9		ug/L		96	70 - 130	10	30
cis-1,3-Dichloropropene			50.0	47.2		ug/L		94	70 - 130	8	20
Cyclohexane			50.0	46.7		ug/L		93	23 - 175	0	30
Dibromochloromethane			50.0	52.6		ug/L		105	70 - 130	7	30
Dichlorodifluoromethane			50.0	43.6		ug/L		87	70 - 130	2	40
Ethylbenzene			50.0	48.5		ug/L		97	70 - 130	1	20
Isopropylbenzene			50.0	48.9		ug/L		98	70 - 130	3	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-799359/5
Matrix: Water
Analysis Batch: 799359

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m,p-Xylenes			50.0	48.3		ug/L		97	70 - 130	2	30
Methyl acetate			100	92.1		ug/L		92	67 - 120	13	30
Methyl tert-butyl ether			50.0	48.6		ug/L		97	70 - 130	11	30
Methylene Chloride			50.0	39.1		ug/L		78	70 - 130	22	30
o-Xylene			50.0	48.5		ug/L		97	70 - 130	1	30
Styrene			50.0	49.8		ug/L		100	70 - 130	1	30
Tetrachloroethene			50.0	47.9		ug/L		96	70 - 130	11	30
Toluene			50.0	43.8		ug/L		88	70 - 130	10	30
trans-1,2-Dichloroethene			50.0	46.9		ug/L		94	70 - 130	11	30
trans-1,3-Dichloropropene			50.0	51.3		ug/L		103	70 - 130	9	30
Trichloroethene			50.0	51.3		ug/L		103	70 - 130	0	30
Trichlorofluoromethane			50.0	22.5	J3	ug/L		45	63 - 142	11	30
Vinyl chloride			50.0	36.5		ug/L		73	66 - 129	15	30
Xylenes, Total			100	96.8		ug/L		97	70 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*112*		*60 - 124*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
Dibromofluoromethane (Surr)	*109*		*70 - 130*
Toluene-d8 (Surr)	*88*		*70 - 130*

Lab Sample ID: MB 680-799638/7
Matrix: Water
Analysis Batch: 799638

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			09/26/23 12:03	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			09/26/23 12:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			09/26/23 12:03	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			09/26/23 12:03	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			09/26/23 12:03	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			09/26/23 12:03	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			09/26/23 12:03	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			09/26/23 12:03	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			09/26/23 12:03	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/26/23 12:03	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			09/26/23 12:03	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			09/26/23 12:03	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/26/23 12:03	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/26/23 12:03	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			09/26/23 12:03	1
2-Hexanone	3.2	U	10	3.2	ug/L			09/26/23 12:03	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			09/26/23 12:03	1
Acetone	3.7	U	10	3.7	ug/L			09/26/23 12:03	1
Benzene	0.27	U	1.0	0.27	ug/L			09/26/23 12:03	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			09/26/23 12:03	1
Bromoform	0.59	U	1.0	0.59	ug/L			09/26/23 12:03	1
Bromomethane	3.7	U	5.0	3.7	ug/L			09/26/23 12:03	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-799638/7
Matrix: Water
Analysis Batch: 799638

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	0.43	U	2.0	0.43	ug/L			09/26/23 12:03	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			09/26/23 12:03	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			09/26/23 12:03	1
Chloroethane	4.6	U	5.0	4.6	ug/L			09/26/23 12:03	1
Chloroform	0.27	U	1.0	0.27	ug/L			09/26/23 12:03	1
Chloromethane	0.54	U	1.0	0.54	ug/L			09/26/23 12:03	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			09/26/23 12:03	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			09/26/23 12:03	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			09/26/23 12:03	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			09/26/23 12:03	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			09/26/23 12:03	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			09/26/23 12:03	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			09/26/23 12:03	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			09/26/23 12:03	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			09/26/23 12:03	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			09/26/23 12:03	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			09/26/23 12:03	1
o-Xylene	0.26	U	1.0	0.26	ug/L			09/26/23 12:03	1
Styrene	0.27	U	1.0	0.27	ug/L			09/26/23 12:03	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			09/26/23 12:03	1
Toluene	0.25	U	1.0	0.25	ug/L			09/26/23 12:03	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			09/26/23 12:03	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			09/26/23 12:03	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			09/26/23 12:03	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			09/26/23 12:03	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			09/26/23 12:03	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			09/26/23 12:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*119*		*60 - 124*		*09/26/23 12:03*	*1*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*		*09/26/23 12:03*	*1*
Dibromofluoromethane (Surr)	*122*		*70 - 130*		*09/26/23 12:03*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*09/26/23 12:03*	*1*

Lab Sample ID: LCS 680-799638/3
Matrix: Water
Analysis Batch: 799638

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	56.5		ug/L		113	70 - 130
1,1,2,2-Tetrachloroethane	50.0	47.3		ug/L		95	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	56.3		ug/L		113	63 - 141
1,1,2-Trichloroethane	50.0	48.7		ug/L		97	70 - 130
1,1-Dichloroethane	50.0	48.4		ug/L		97	70 - 130
1,1-Dichloroethene	50.0	51.0		ug/L		102	70 - 130
1,2,4-Trichlorobenzene	50.0	57.6		ug/L		115	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	45.5		ug/L		91	70 - 130
1,2-Dibromoethane (EDB)	50.0	50.6		ug/L		101	70 - 130

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-799638/3
Matrix: Water
Analysis Batch: 799638

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichlorobenzene	50.0	48.4		ug/L		97	70 - 130
1,2-Dichloroethane	50.0	51.9		ug/L		104	70 - 130
1,2-Dichloropropane	50.0	46.7		ug/L		93	70 - 130
1,3-Dichlorobenzene	50.0	48.4		ug/L		97	70 - 130
1,4-Dichlorobenzene	50.0	48.4		ug/L		97	70 - 130
2-Butanone (MEK)	250	200		ug/L		80	69 - 120
2-Hexanone	250	226		ug/L		90	70 - 130
4-Methyl-2-pentanone	250	226		ug/L		90	68 - 120
Acetone	250	208		ug/L		83	67 - 120
Benzene	50.0	46.9		ug/L		94	70 - 130
Bromodichloromethane	50.0	56.3		ug/L		113	70 - 130
Bromoform	50.0	47.4		ug/L		95	69 - 129
Bromomethane	50.0	113	J3	ug/L		226	28 - 192
Carbon disulfide	50.0	54.6		ug/L		109	70 - 130
Carbon tetrachloride	50.0	59.1		ug/L		118	70 - 130
Chlorobenzene	50.0	50.1		ug/L		100	70 - 130
Chloroethane	50.0	185	J3	ug/L		370	31 - 213
Chloroform	50.0	49.1		ug/L		98	70 - 130
Chloromethane	50.0	53.2		ug/L		106	59 - 127
cis-1,2-Dichloroethene	50.0	49.4		ug/L		99	70 - 130
cis-1,3-Dichloropropene	50.0	51.8		ug/L		104	70 - 130
Cyclohexane	50.0	51.5		ug/L		103	23 - 175
Dibromochloromethane	50.0	52.9		ug/L		106	70 - 130
Dichlorodifluoromethane	50.0	60.3		ug/L		121	70 - 130
Ethylbenzene	50.0	48.4		ug/L		97	70 - 130
Isopropylbenzene	50.0	49.3		ug/L		99	70 - 130
m,p-Xylenes	50.0	47.6		ug/L		95	70 - 130
Methyl acetate	100	84.9		ug/L		85	67 - 120
Methyl tert-butyl ether	50.0	46.4		ug/L		93	70 - 130
Methylene Chloride	50.0	50.7		ug/L		101	70 - 130
o-Xylene	50.0	47.3		ug/L		95	70 - 130
Styrene	50.0	49.5		ug/L		99	70 - 130
Tetrachloroethene	50.0	52.7		ug/L		105	70 - 130
Toluene	50.0	49.0		ug/L		98	70 - 130
trans-1,2-Dichloroethene	50.0	54.1		ug/L		108	70 - 130
trans-1,3-Dichloropropene	50.0	54.9		ug/L		110	70 - 130
Trichloroethene	50.0	50.5		ug/L		101	70 - 130
Trichlorofluoromethane	50.0	79.5	J3	ug/L		159	63 - 142
Vinyl chloride	50.0	56.5		ug/L		113	66 - 129
Xylenes, Total	100	94.9		ug/L		95	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*109*		*60 - 124*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*
Dibromofluoromethane (Surr)	*110*		*70 - 130*
Toluene-d8 (Surr)	*98*		*70 - 130*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-799638/4
Matrix: Water
Analysis Batch: 799638

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane			50.0	57.4		ug/L		115	70 - 130	2	30
1,1,2,2-Tetrachloroethane			50.0	49.2		ug/L		98	70 - 130	4	30
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	47.0		ug/L		94	63 - 141	18	30
1,1,2-Trichloroethane			50.0	50.3		ug/L		101	70 - 130	3	30
1,1-Dichloroethane			50.0	49.6		ug/L		99	70 - 130	2	30
1,1-Dichloroethene			50.0	58.0		ug/L		116	70 - 130	13	20
1,2,4-Trichlorobenzene			50.0	57.0		ug/L		114	70 - 130	1	30
1,2-Dibromo-3-Chloropropane			50.0	45.5		ug/L		91	70 - 130	0	30
1,2-Dibromoethane (EDB)			50.0	52.3		ug/L		105	70 - 130	3	30
1,2-Dichlorobenzene			50.0	49.2		ug/L		98	70 - 130	2	30
1,2-Dichloroethane			50.0	55.5		ug/L		111	70 - 130	7	50
1,2-Dichloropropane			50.0	46.8		ug/L		94	70 - 130	0	20
1,3-Dichlorobenzene			50.0	49.1		ug/L		98	70 - 130	2	30
1,4-Dichlorobenzene			50.0	48.5		ug/L		97	70 - 130	0	30
2-Butanone (MEK)			250	235		ug/L		94	69 - 120	16	30
2-Hexanone			250	246		ug/L		98	70 - 130	9	20
4-Methyl-2-pentanone			250	240		ug/L		96	68 - 120	6	30
Acetone			250	194		ug/L		78	67 - 120	7	30
Benzene			50.0	48.1		ug/L		96	70 - 130	2	30
Bromodichloromethane			50.0	57.9		ug/L		116	70 - 130	3	30
Bromoform			50.0	49.7		ug/L		99	69 - 129	5	30
Bromomethane			50.0	103	J3	ug/L		206	28 - 192	9	30
Carbon disulfide			50.0	55.2		ug/L		110	70 - 130	1	30
Carbon tetrachloride			50.0	61.5		ug/L		123	70 - 130	4	30
Chlorobenzene			50.0	50.0		ug/L		100	70 - 130	0	30
Chloroethane			50.0	154	J3	ug/L		308	31 - 213	18	30
Chloroform			50.0	50.2		ug/L		100	70 - 130	2	30
Chloromethane			50.0	50.0		ug/L		100	59 - 127	6	30
cis-1,2-Dichloroethene			50.0	50.6		ug/L		101	70 - 130	3	30
cis-1,3-Dichloropropene			50.0	52.9		ug/L		106	70 - 130	2	20
Cyclohexane			50.0	53.6		ug/L		107	23 - 175	4	30
Dibromochloromethane			50.0	56.4		ug/L		113	70 - 130	6	30
Dichlorodifluoromethane			50.0	60.7		ug/L		121	70 - 130	1	40
Ethylbenzene			50.0	49.0		ug/L		98	70 - 130	1	20
Isopropylbenzene			50.0	50.2		ug/L		100	70 - 130	2	30
m,p-Xylenes			50.0	48.4		ug/L		97	70 - 130	2	30
Methyl acetate			100	86.1		ug/L		86	67 - 120	1	30
Methyl tert-butyl ether			50.0	47.7		ug/L		95	70 - 130	3	30
Methylene Chloride			50.0	50.8		ug/L		102	70 - 130	0	30
o-Xylene			50.0	48.3		ug/L		97	70 - 130	2	30
Styrene			50.0	50.2		ug/L		100	70 - 130	1	30
Tetrachloroethene			50.0	54.6		ug/L		109	70 - 130	4	30
Toluene			50.0	49.4		ug/L		99	70 - 130	1	30
trans-1,2-Dichloroethene			50.0	54.4		ug/L		109	70 - 130	1	30
trans-1,3-Dichloropropene			50.0	57.2		ug/L		114	70 - 130	4	30
Trichloroethene			50.0	51.4		ug/L		103	70 - 130	2	30
Trichlorofluoromethane			50.0	72.3	J3	ug/L		145	63 - 142	9	30
Vinyl chloride			50.0	56.1		ug/L		112	66 - 129	1	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-799638/4
Matrix: Water
Analysis Batch: 799638

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Xylenes, Total			100	96.7		ug/L		97	70 - 130	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*121*		*60 - 124*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*
Dibromofluoromethane (Surr)	*113*		*70 - 130*
Toluene-d8 (Surr)	*95*		*70 - 130*

Lab Sample ID: MB 680-799831/7
Matrix: Water
Analysis Batch: 799831

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			09/27/23 12:55	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			09/27/23 12:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			09/27/23 12:55	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			09/27/23 12:55	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			09/27/23 12:55	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			09/27/23 12:55	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			09/27/23 12:55	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			09/27/23 12:55	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			09/27/23 12:55	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/27/23 12:55	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			09/27/23 12:55	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			09/27/23 12:55	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/27/23 12:55	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/27/23 12:55	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			09/27/23 12:55	1
2-Hexanone	3.2	U	10	3.2	ug/L			09/27/23 12:55	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			09/27/23 12:55	1
Acetone	3.7	U	10	3.7	ug/L			09/27/23 12:55	1
Benzene	0.27	U	1.0	0.27	ug/L			09/27/23 12:55	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			09/27/23 12:55	1
Bromoform	0.59	U	1.0	0.59	ug/L			09/27/23 12:55	1
Bromomethane	3.7	U	5.0	3.7	ug/L			09/27/23 12:55	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			09/27/23 12:55	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			09/27/23 12:55	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			09/27/23 12:55	1
Chloroethane	4.6	U	5.0	4.6	ug/L			09/27/23 12:55	1
Chloroform	0.27	U	1.0	0.27	ug/L			09/27/23 12:55	1
Chloromethane	0.54	U	1.0	0.54	ug/L			09/27/23 12:55	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			09/27/23 12:55	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			09/27/23 12:55	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			09/27/23 12:55	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			09/27/23 12:55	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			09/27/23 12:55	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			09/27/23 12:55	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			09/27/23 12:55	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-799831/7
Matrix: Water
Analysis Batch: 799831

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			09/27/23 12:55	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			09/27/23 12:55	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			09/27/23 12:55	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			09/27/23 12:55	1
o-Xylene	0.26	U	1.0	0.26	ug/L			09/27/23 12:55	1
Styrene	0.27	U	1.0	0.27	ug/L			09/27/23 12:55	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			09/27/23 12:55	1
Toluene	1.43		1.0	0.25	ug/L			09/27/23 12:55	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			09/27/23 12:55	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			09/27/23 12:55	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			09/27/23 12:55	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			09/27/23 12:55	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			09/27/23 12:55	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			09/27/23 12:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 124*		*09/27/23 12:55*	*1*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*		*09/27/23 12:55*	*1*
Dibromofluoromethane (Surr)	*114*		*70 - 130*		*09/27/23 12:55*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*09/27/23 12:55*	*1*

Lab Sample ID: LCS 680-799831/3
Matrix: Water
Analysis Batch: 799831

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	53.4		ug/L		107	70 - 130
1,1,2,2-Tetrachloroethane	50.0	43.7		ug/L		87	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	57.0		ug/L		114	63 - 141
1,1,2-Trichloroethane	50.0	47.3		ug/L		95	70 - 130
1,1-Dichloroethane	50.0	46.5		ug/L		93	70 - 130
1,1-Dichloroethene	50.0	58.8		ug/L		118	70 - 130
1,2,4-Trichlorobenzene	50.0	57.5		ug/L		115	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	47.7		ug/L		95	70 - 130
1,2-Dibromoethane (EDB)	50.0	48.1		ug/L		96	70 - 130
1,2-Dichlorobenzene	50.0	49.7		ug/L		99	70 - 130
1,2-Dichloroethane	50.0	44.3		ug/L		89	70 - 130
1,2-Dichloropropane	50.0	45.5		ug/L		91	70 - 130
1,3-Dichlorobenzene	50.0	48.7		ug/L		97	70 - 130
1,4-Dichlorobenzene	50.0	47.4		ug/L		95	70 - 130
2-Butanone (MEK)	250	243		ug/L		97	69 - 120
2-Hexanone	250	190		ug/L		76	70 - 130
4-Methyl-2-pentanone	250	191		ug/L		76	68 - 120
Acetone	250	252		ug/L		101	67 - 120
Benzene	50.0	48.5		ug/L		97	70 - 130
Bromodichloromethane	50.0	53.1		ug/L		106	70 - 130
Bromoform	50.0	45.3		ug/L		91	69 - 129
Bromomethane	50.0	67.9		ug/L		136	28 - 192

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-799831/3
Matrix: Water
Analysis Batch: 799831

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Carbon disulfide	50.0	55.0		ug/L		110	70 - 130
Carbon tetrachloride	50.0	55.0		ug/L		110	70 - 130
Chlorobenzene	50.0	48.8		ug/L		98	70 - 130
Chloroethane	50.0	87.3		ug/L		175	31 - 213
Chloroform	50.0	48.3		ug/L		97	70 - 130
Chloromethane	50.0	50.2		ug/L		100	59 - 127
cis-1,2-Dichloroethene	50.0	45.0		ug/L		90	70 - 130
cis-1,3-Dichloropropene	50.0	50.5		ug/L		101	70 - 130
Cyclohexane	50.0	50.4		ug/L		101	23 - 175
Dibromochloromethane	50.0	51.7		ug/L		103	70 - 130
Dichlorodifluoromethane	50.0	53.7		ug/L		107	70 - 130
Ethylbenzene	50.0	47.5		ug/L		95	70 - 130
Isopropylbenzene	50.0	48.6		ug/L		97	70 - 130
m,p-Xylenes	50.0	47.5		ug/L		95	70 - 130
Methyl acetate	100	68.1		ug/L		68	67 - 120
Methyl tert-butyl ether	50.0	43.6		ug/L		87	70 - 130
Methylene Chloride	50.0	50.7		ug/L		101	70 - 130
o-Xylene	50.0	46.8		ug/L		94	70 - 130
Styrene	50.0	49.2		ug/L		98	70 - 130
Tetrachloroethene	50.0	54.1		ug/L		108	70 - 130
Toluene	50.0	49.9		ug/L		100	70 - 130
trans-1,2-Dichloroethene	50.0	54.8		ug/L		110	70 - 130
trans-1,3-Dichloropropene	50.0	50.6		ug/L		101	70 - 130
Trichloroethene	50.0	52.6		ug/L		105	70 - 130
Trichlorofluoromethane	50.0	65.5		ug/L		131	63 - 142
Vinyl chloride	50.0	64.3		ug/L		129	66 - 129
Xylenes, Total	100	94.3		ug/L		94	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 124*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*
Dibromofluoromethane (Surr)	*103*		*70 - 130*
Toluene-d8 (Surr)	*94*		*70 - 130*

Lab Sample ID: LCSD 680-799831/4
Matrix: Water
Analysis Batch: 799831

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	50.0	52.1		ug/L		104	70 - 130	2	30
1,1,2,2-Tetrachloroethane	50.0	44.7		ug/L		89	70 - 130	2	30
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	55.6		ug/L		111	63 - 141	2	30
1,1,2-Trichloroethane	50.0	48.2		ug/L		96	70 - 130	2	30
1,1-Dichloroethane	50.0	45.6		ug/L		91	70 - 130	2	30
1,1-Dichloroethene	50.0	50.2		ug/L		100	70 - 130	16	20
1,2,4-Trichlorobenzene	50.0	59.0		ug/L		118	70 - 130	2	30
1,2-Dibromo-3-Chloropropane	50.0	47.9		ug/L		96	70 - 130	0	30
1,2-Dibromoethane (EDB)	50.0	50.2		ug/L		100	70 - 130	4	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-799831/4
Matrix: Water
Analysis Batch: 799831

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dichlorobenzene			50.0	48.5		ug/L		97	70 - 130	2	30
1,2-Dichloroethane			50.0	45.1		ug/L		90	70 - 130	2	50
1,2-Dichloropropane			50.0	47.0		ug/L		94	70 - 130	3	20
1,3-Dichlorobenzene			50.0	47.7		ug/L		95	70 - 130	2	30
1,4-Dichlorobenzene			50.0	47.6		ug/L		95	70 - 130	0	30
2-Butanone (MEK)			250	250		ug/L		100	69 - 120	3	30
2-Hexanone			250	197		ug/L		79	70 - 130	4	20
4-Methyl-2-pentanone			250	196		ug/L		78	68 - 120	3	30
Acetone			250	255		ug/L		102	67 - 120	1	30
Benzene			50.0	48.4		ug/L		97	70 - 130	0	30
Bromodichloromethane			50.0	54.4		ug/L		109	70 - 130	2	30
Bromoform			50.0	47.5		ug/L		95	69 - 129	5	30
Bromomethane			50.0	65.6		ug/L		131	28 - 192	3	30
Carbon disulfide			50.0	55.1		ug/L		110	70 - 130	0	30
Carbon tetrachloride			50.0	56.3		ug/L		113	70 - 130	2	30
Chlorobenzene			50.0	49.6		ug/L		99	70 - 130	2	30
Chloroethane			50.0	83.9		ug/L		168	31 - 213	4	30
Chloroform			50.0	47.7		ug/L		95	70 - 130	1	30
Chloromethane			50.0	50.9		ug/L		102	59 - 127	1	30
cis-1,2-Dichloroethene			50.0	45.5		ug/L		91	70 - 130	1	30
cis-1,3-Dichloropropene			50.0	50.7		ug/L		101	70 - 130	0	20
Cyclohexane			50.0	50.4		ug/L		101	23 - 175	0	30
Dibromochloromethane			50.0	52.4		ug/L		105	70 - 130	1	30
Dichlorodifluoromethane			50.0	60.2		ug/L		120	70 - 130	11	40
Ethylbenzene			50.0	48.3		ug/L		97	70 - 130	2	20
Isopropylbenzene			50.0	48.9		ug/L		98	70 - 130	1	30
m,p-Xylenes			50.0	48.1		ug/L		96	70 - 130	1	30
Methyl acetate			100	71.3		ug/L		71	67 - 120	5	30
Methyl tert-butyl ether			50.0	45.5		ug/L		91	70 - 130	4	30
Methylene Chloride			50.0	52.2		ug/L		104	70 - 130	3	30
o-Xylene			50.0	47.8		ug/L		96	70 - 130	2	30
Styrene			50.0	50.0		ug/L		100	70 - 130	2	30
Tetrachloroethene			50.0	54.5		ug/L		109	70 - 130	1	30
Toluene			50.0	49.9		ug/L		100	70 - 130	0	30
trans-1,2-Dichloroethene			50.0	53.8		ug/L		108	70 - 130	2	30
trans-1,3-Dichloropropene			50.0	50.9		ug/L		102	70 - 130	1	30
Trichloroethene			50.0	52.7		ug/L		105	70 - 130	0	30
Trichlorofluoromethane			50.0	65.8		ug/L		132	63 - 142	0	30
Vinyl chloride			50.0	60.8		ug/L		122	66 - 129	6	30
Xylenes, Total			100	95.9		ug/L		96	70 - 130	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 124*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*
Dibromofluoromethane (Surr)	*104*		*70 - 130*
Toluene-d8 (Surr)	*96*		*70 - 130*

GC/MS VOA

Analysis Batch: 799355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-27076-1	LC34-DPT0914-008.0-20230918	Total/NA	Water	8260D	
670-27076-2	LC34-DPT0914-013.0-20230918	Total/NA	Water	8260D	
670-27076-3	LC34-DPT0914-018.0-20230918	Total/NA	Water	8260D	
670-27076-4	LC34-DPT0914-025.0-20230918	Total/NA	Water	8260D	
670-27076-5	LC34-DPT0914-034.0-20230918	Total/NA	Water	8260D	
670-27076-6	LC34-DPT0914-038.0-20230918	Total/NA	Water	8260D	
670-27076-7	LC34-DPT0915-008.0-20230918	Total/NA	Water	8260D	
670-27076-8	LC34-DPT0915-013.0-20230918	Total/NA	Water	8260D	
670-27076-9	LC34-DPT0915-018.0-20230918	Total/NA	Water	8260D	
670-27076-10	LC34-DPT0915-025.0-20230918	Total/NA	Water	8260D	
670-27076-11	LC34-DPT0915-034.0-20230918	Total/NA	Water	8260D	
670-27076-12	LC34-DPT0915-038.0-20230918	Total/NA	Water	8260D	
670-27076-13	LC34-DPT0916-008.0-20230918	Total/NA	Water	8260D	
670-27076-14	LC34-DPT0916-013.0-20230918	Total/NA	Water	8260D	
670-27076-15	LC34-DPT0916-018.0-20230918	Total/NA	Water	8260D	
670-27076-16	LC34-DPT0916-025.0-20230918	Total/NA	Water	8260D	
670-27076-17	LC34-DPT0916-034.0-20230918	Total/NA	Water	8260D	
670-27076-18	LC34-DPT0916-038.0-20230918	Total/NA	Water	8260D	
670-27076-19	LC34-DPT0917-008.0-20230919	Total/NA	Water	8260D	
670-27076-20	LC34-DPT0917-013.0-20230919	Total/NA	Water	8260D	
670-27076-21	LC34-DPT0917-018.0-20230919	Total/NA	Water	8260D	
670-27076-22	LC34-DPT0917-025.0-20230919	Total/NA	Water	8260D	
670-27076-23	LC34-DPT0917-034.0-20230919	Total/NA	Water	8260D	
670-27076-24	LC34-DPT0918-008.0-20230919	Total/NA	Water	8260D	
670-27076-25	LC34-DPT0918-013.0-20230919	Total/NA	Water	8260D	
MB 680-799355/8	Method Blank	Total/NA	Water	8260D	
LCS 680-799355/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-799355/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 799359

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-27076-26	LC34-DPT0918-018.0-20230919	Total/NA	Water	8260D	
670-27076-27	LC34-DPT0918-025.0-20230919	Total/NA	Water	8260D	
670-27076-28	LC34-DPT0918-034.0-20230919	Total/NA	Water	8260D	
670-27076-29	LC34-DPT0918-038.0-20230919	Total/NA	Water	8260D	
670-27076-30	LC34-DPT0919-008.0-20230919	Total/NA	Water	8260D	
670-27076-31	LC34-DPT0919-013.0-20230919	Total/NA	Water	8260D	
670-27076-32	LC34-DPT0919-018.0-20230919	Total/NA	Water	8260D	
670-27076-33	LC34-DPT0919-025.0-20230919	Total/NA	Water	8260D	
670-27076-34	LC34-DPT0917-038.0-20230919	Total/NA	Water	8260D	
MB 680-799359/9	Method Blank	Total/NA	Water	8260D	
LCS 680-799359/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-799359/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 799638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-27076-4 - DL	LC34-DPT0914-025.0-20230918	Total/NA	Water	8260D	
670-27076-5	LC34-DPT0914-034.0-20230918	Total/NA	Water	8260D	
670-27076-8 - DL	LC34-DPT0915-013.0-20230918	Total/NA	Water	8260D	
670-27076-9 - DL	LC34-DPT0915-018.0-20230918	Total/NA	Water	8260D	
670-27076-10 - DL	LC34-DPT0915-025.0-20230918	Total/NA	Water	8260D	

GC/MS VOA (Continued)

Analysis Batch: 799638 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-27076-11	LC34-DPT0915-034.0-20230918	Total/NA	Water	8260D	
670-27076-14 - DL	LC34-DPT0916-013.0-20230918	Total/NA	Water	8260D	
670-27076-15 - DL	LC34-DPT0916-018.0-20230918	Total/NA	Water	8260D	
670-27076-16	LC34-DPT0916-025.0-20230918	Total/NA	Water	8260D	
670-27076-20 - DL	LC34-DPT0917-013.0-20230919	Total/NA	Water	8260D	
670-27076-21 - DL	LC34-DPT0917-018.0-20230919	Total/NA	Water	8260D	
670-27076-22 - DL	LC34-DPT0917-025.0-20230919	Total/NA	Water	8260D	
670-27076-25 - DL	LC34-DPT0918-013.0-20230919	Total/NA	Water	8260D	
670-27076-26 - DL	LC34-DPT0918-018.0-20230919	Total/NA	Water	8260D	
670-27076-27 - DL	LC34-DPT0918-025.0-20230919	Total/NA	Water	8260D	
MB 680-799638/7	Method Blank	Total/NA	Water	8260D	
LCS 680-799638/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-799638/4	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 799831

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-27076-32 - DL	LC34-DPT0919-018.0-20230919	Total/NA	Water	8260D	
670-27076-33 - DL	LC34-DPT0919-025.0-20230919	Total/NA	Water	8260D	
670-27076-34	LC34-DPT0917-038.0-20230919	Total/NA	Water	8260D	
MB 680-799831/7	Method Blank	Total/NA	Water	8260D	
LCS 680-799831/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-799831/4	Lab Control Sample Dup	Total/NA	Water	8260D	

Client Sample ID: LC34-DPT0914-008.0-20230918
Lab Sample ID: 670-27076-1
Date Collected: 09/18/23 10:20
Matrix: Water
Date Received: 09/20/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	799355	P1C	EET SAV	09/24/23 14:28

Client Sample ID: LC34-DPT0914-013.0-20230918
Lab Sample ID: 670-27076-2
Date Collected: 09/18/23 10:35
Matrix: Water
Date Received: 09/20/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	799355	P1C	EET SAV	09/24/23 14:47

Client Sample ID: LC34-DPT0914-018.0-20230918
Lab Sample ID: 670-27076-3
Date Collected: 09/18/23 10:50
Matrix: Water
Date Received: 09/20/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	799355	P1C	EET SAV	09/24/23 15:06

Client Sample ID: LC34-DPT0914-025.0-20230918
Lab Sample ID: 670-27076-4
Date Collected: 09/18/23 11:05
Matrix: Water
Date Received: 09/20/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	799355	P1C	EET SAV	09/24/23 15:25
Total/NA	Analysis	8260D	DL	10	799638	P1C	EET SAV	09/26/23 12:24

Client Sample ID: LC34-DPT0914-034.0-20230918
Lab Sample ID: 670-27076-5
Date Collected: 09/18/23 11:20
Matrix: Water
Date Received: 09/20/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	799355	P1C	EET SAV	09/24/23 15:44
Total/NA	Analysis	8260D		1	799638	P1C	EET SAV	09/26/23 12:43

Client Sample ID: LC34-DPT0914-038.0-20230918
Lab Sample ID: 670-27076-6
Date Collected: 09/18/23 11:40
Matrix: Water
Date Received: 09/20/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	799355	P1C	EET SAV	09/24/23 16:03

Client Sample ID: LC34-DPT0915-008.0-20230918
Lab Sample ID: 670-27076-7
Date Collected: 09/18/23 12:30
Matrix: Water
Date Received: 09/20/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	799355	P1C	EET SAV	09/24/23 16:22

Lab Chronicle

Client: Tetra Tech, Inc.
Job ID: 670-27076-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT0915-013.0-20230918
Lab Sample ID: 670-27076-8
Date Collected: 09/18/23 12:45
Matrix: Water
Date Received: 09/20/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	799355	P1C	EET SAV	09/24/23 16:41
Total/NA	Analysis	8260D	DL	5	799638	P1C	EET SAV	09/26/23 13:04

Client Sample ID: LC34-DPT0915-018.0-20230918
Lab Sample ID: 670-27076-9
Date Collected: 09/18/23 13:00
Matrix: Water
Date Received: 09/20/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	799355	P1C	EET SAV	09/24/23 17:00
Total/NA	Analysis	8260D	DL	10	799638	P1C	EET SAV	09/26/23 13:26

Client Sample ID: LC34-DPT0915-025.0-20230918
Lab Sample ID: 670-27076-10
Date Collected: 09/18/23 13:15
Matrix: Water
Date Received: 09/20/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	799355	P1C	EET SAV	09/24/23 17:20
Total/NA	Analysis	8260D	DL	10	799638	P1C	EET SAV	09/26/23 13:47

Client Sample ID: LC34-DPT0915-034.0-20230918
Lab Sample ID: 670-27076-11
Date Collected: 09/18/23 13:30
Matrix: Water
Date Received: 09/20/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	799355	P1C	EET SAV	09/24/23 17:39
Total/NA	Analysis	8260D		1	799638	P1C	EET SAV	09/26/23 14:06

Client Sample ID: LC34-DPT0915-038.0-20230918
Lab Sample ID: 670-27076-12
Date Collected: 09/18/23 13:50
Matrix: Water
Date Received: 09/20/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	799355	P1C	EET SAV	09/24/23 17:58

Client Sample ID: LC34-DPT0916-008.0-20230918
Lab Sample ID: 670-27076-13
Date Collected: 09/18/23 15:00
Matrix: Water
Date Received: 09/20/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	799355	P1C	EET SAV	09/24/23 18:17

Client Sample ID: LC34-DPT0916-013.0-20230918
Lab Sample ID: 670-27076-14
Date Collected: 09/18/23 15:15
Matrix: Water
Date Received: 09/20/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	799355	P1C	EET SAV	09/24/23 18:36
Total/NA	Analysis	8260D	DL	5	799638	P1C	EET SAV	09/26/23 14:27

Client Sample ID: LC34-DPT0916-018.0-20230918
Lab Sample ID: 670-27076-15
Date Collected: 09/18/23 15:30
Matrix: Water
Date Received: 09/20/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	799355	P1C	EET SAV	09/24/23 18:55
Total/NA	Analysis	8260D	DL	5	799638	P1C	EET SAV	09/26/23 14:49

Client Sample ID: LC34-DPT0916-025.0-20230918
Lab Sample ID: 670-27076-16
Date Collected: 09/18/23 15:45
Matrix: Water
Date Received: 09/20/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		5	799355	P1C	EET SAV	09/24/23 19:16
Total/NA	Analysis	8260D		25	799638	P1C	EET SAV	09/26/23 15:10

Client Sample ID: LC34-DPT0916-034.0-20230918
Lab Sample ID: 670-27076-17
Date Collected: 09/18/23 16:00
Matrix: Water
Date Received: 09/20/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	799355	P1C	EET SAV	09/24/23 19:36

Client Sample ID: LC34-DPT0916-038.0-20230918
Lab Sample ID: 670-27076-18
Date Collected: 09/18/23 16:20
Matrix: Water
Date Received: 09/20/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	799355	P1C	EET SAV	09/24/23 19:55

Client Sample ID: LC34-DPT0917-008.0-20230919
Lab Sample ID: 670-27076-19
Date Collected: 09/19/23 08:10
Matrix: Water
Date Received: 09/20/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	799355	P1C	EET SAV	09/24/23 20:14

Client Sample ID: LC34-DPT0917-013.0-20230919
Lab Sample ID: 670-27076-20
Date Collected: 09/19/23 08:25
Matrix: Water
Date Received: 09/20/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	799355	P1C	EET SAV	09/24/23 20:33

Client Sample ID: LC34-DPT0917-013.0-20230919
Lab Sample ID: 670-27076-20
Date Collected: 09/19/23 08:25
Matrix: Water
Date Received: 09/20/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D	DL	10	799638	P1C	EET SAV	09/26/23 16:09

Client Sample ID: LC34-DPT0917-018.0-20230919
Lab Sample ID: 670-27076-21
Date Collected: 09/19/23 08:40
Matrix: Water
Date Received: 09/20/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	799355	P1C	EET SAV	09/24/23 20:52
Total/NA	Analysis	8260D	DL	25	799638	P1C	EET SAV	09/26/23 16:30

Client Sample ID: LC34-DPT0917-025.0-20230919
Lab Sample ID: 670-27076-22
Date Collected: 09/19/23 08:55
Matrix: Water
Date Received: 09/20/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		5	799355	P1C	EET SAV	09/24/23 21:13
Total/NA	Analysis	8260D	DL	25	799638	P1C	EET SAV	09/26/23 16:51

Client Sample ID: LC34-DPT0917-034.0-20230919
Lab Sample ID: 670-27076-23
Date Collected: 09/19/23 09:10
Matrix: Water
Date Received: 09/20/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	799355	P1C	EET SAV	09/24/23 21:32

Client Sample ID: LC34-DPT0918-008.0-20230919
Lab Sample ID: 670-27076-24
Date Collected: 09/19/23 10:00
Matrix: Water
Date Received: 09/20/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	799355	P1C	EET SAV	09/24/23 21:51

Client Sample ID: LC34-DPT0918-013.0-20230919
Lab Sample ID: 670-27076-25
Date Collected: 09/19/23 10:15
Matrix: Water
Date Received: 09/20/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	799355	P1C	EET SAV	09/24/23 22:10
Total/NA	Analysis	8260D	DL	10	799638	P1C	EET SAV	09/26/23 17:50

Client Sample ID: LC34-DPT0918-018.0-20230919
Lab Sample ID: 670-27076-26
Date Collected: 09/19/23 10:30
Matrix: Water
Date Received: 09/20/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	799359	P1C	EET SAV	09/24/23 15:08

Lab Chronicle

Client: Tetra Tech, Inc.
Job ID: 670-27076-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT0918-018.0-20230919
Lab Sample ID: 670-27076-26
Date Collected: 09/19/23 10:30
Matrix: Water
Date Received: 09/20/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D	DL	50	799638	P1C	EET SAV	09/26/23 18:11

Client Sample ID: LC34-DPT0918-025.0-20230919
Lab Sample ID: 670-27076-27
Date Collected: 09/19/23 11:20
Matrix: Water
Date Received: 09/20/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		10	799359	P1C	EET SAV	09/24/23 15:33
Total/NA	Analysis	8260D	DL	50	799638	P1C	EET SAV	09/26/23 18:33

Client Sample ID: LC34-DPT0918-034.0-20230919
Lab Sample ID: 670-27076-28
Date Collected: 09/19/23 11:35
Matrix: Water
Date Received: 09/20/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	799359	P1C	EET SAV	09/24/23 15:52

Client Sample ID: LC34-DPT0918-038.0-20230919
Lab Sample ID: 670-27076-29
Date Collected: 09/19/23 11:55
Matrix: Water
Date Received: 09/20/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	799359	P1C	EET SAV	09/24/23 16:11

Client Sample ID: LC34-DPT0919-008.0-20230919
Lab Sample ID: 670-27076-30
Date Collected: 09/19/23 12:55
Matrix: Water
Date Received: 09/20/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	799359	P1C	EET SAV	09/24/23 16:30

Client Sample ID: LC34-DPT0919-013.0-20230919
Lab Sample ID: 670-27076-31
Date Collected: 09/19/23 13:10
Matrix: Water
Date Received: 09/20/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		2	799359	P1C	EET SAV	09/24/23 16:49

Client Sample ID: LC34-DPT0919-018.0-20230919
Lab Sample ID: 670-27076-32
Date Collected: 09/19/23 13:25
Matrix: Water
Date Received: 09/20/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		5	799359	P1C	EET SAV	09/24/23 17:10
Total/NA	Analysis	8260D	DL	25	799831	MLL	EET SAV	09/27/23 18:46

Lab Chronicle

Client: Tetra Tech, Inc.
Job ID: 670-27076-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT0919-025.0-20230919
Lab Sample ID: 670-27076-33

Date Collected: 09/19/23 13:40
Matrix: Water
Date Received: 09/20/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		5	799359	P1C	EET SAV	09/24/23 17:32
Total/NA	Analysis	8260D	DL	25	799831	MLL	EET SAV	09/27/23 19:07

Client Sample ID: LC34-DPT0917-038.0-20230919
Lab Sample ID: 670-27076-34

Date Collected: 09/19/23 09:30
Matrix: Water
Date Received: 09/20/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	799359	P1C	EET SAV	09/24/23 17:51
Total/NA	Analysis	8260D		1	799831	MLL	EET SAV	09/27/23 19:26

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: Tetra Tech, Inc.
Job ID: 670-27076-1
Project/Site: NASA KSC LC34 DPT

Laboratory: Eurofins Savannah

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
	AFCEE	SAVLAB	
Alabama	State	41450	06-30-24
ANAB	Dept. of Defense ELAP	L2463	09-22-24
Arkansas DEQ	State	19-015-0	02-01-24
California	State	2939	06-30-24
Florida	NELAP	E87052	06-30-24
Georgia	State	E87052	06-30-24
Georgia (DW)	State	803	06-30-24
Guam	State	19-007R	04-17-24
Hawaii	State	<cert No.>	06-30-24
Illinois	NELAP	200022	11-30-23
Indiana	State	C-GA-02	06-30-24
Iowa	State	353	07-01-25
Kentucky (UST)	State	NA	06-30-24
Louisiana	NELAP	30690	06-30-24
Louisiana (All)	NELAP	30690	06-30-24
Louisiana (DW)	State	LA009	12-31-23
Maine	State	GA00006	09-25-24
Maryland	State	250	12-31-23
Massachusetts	State	M-GA006	06-30-24
Michigan	State	9925	06-30-24
Mississippi	State	<cert No.>	06-30-24
Nebraska	State	NE-OS-7-04	06-30-24
New Jersey	NELAP	GA769	06-30-24
New Mexico	State	GA00006	06-30-24
North Carolina (DW)	State	13701	07-31-24
North Carolina (WW/SW)	State	269	12-31-23
Pennsylvania	NELAP	68-00474	06-30-24
Puerto Rico	State	GA00006	01-01-24
South Carolina	State	98001	06-30-23 *
Tennessee	State	TN02961	06-30-24
Texas	NELAP	T1047004185	11-30-23
Texas	TCEQ Water Supply	T104704185	06-30-24
USDA	US Federal Programs	P330-18-00313	09-03-24
Virginia	NELAP	460161	06-14-24
Wyoming	State	8TMS-L	06-30-23 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27076-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET SAV
5030B	Purge and Trap	SW846	EET SAV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Sample Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27076-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
670-27076-1	LC34-DPT0914-008.0-20230918	Water	09/18/23 10:20	09/20/23 08:00
670-27076-2	LC34-DPT0914-013.0-20230918	Water	09/18/23 10:35	09/20/23 08:00
670-27076-3	LC34-DPT0914-018.0-20230918	Water	09/18/23 10:50	09/20/23 08:00
670-27076-4	LC34-DPT0914-025.0-20230918	Water	09/18/23 11:05	09/20/23 08:00
670-27076-5	LC34-DPT0914-034.0-20230918	Water	09/18/23 11:20	09/20/23 08:00
670-27076-6	LC34-DPT0914-038.0-20230918	Water	09/18/23 11:40	09/20/23 08:00
670-27076-7	LC34-DPT0915-008.0-20230918	Water	09/18/23 12:30	09/20/23 08:00
670-27076-8	LC34-DPT0915-013.0-20230918	Water	09/18/23 12:45	09/20/23 08:00
670-27076-9	LC34-DPT0915-018.0-20230918	Water	09/18/23 13:00	09/20/23 08:00
670-27076-10	LC34-DPT0915-025.0-20230918	Water	09/18/23 13:15	09/20/23 08:00
670-27076-11	LC34-DPT0915-034.0-20230918	Water	09/18/23 13:30	09/20/23 08:00
670-27076-12	LC34-DPT0915-038.0-20230918	Water	09/18/23 13:50	09/20/23 08:00
670-27076-13	LC34-DPT0916-008.0-20230918	Water	09/18/23 15:00	09/20/23 08:00
670-27076-14	LC34-DPT0916-013.0-20230918	Water	09/18/23 15:15	09/20/23 08:00
670-27076-15	LC34-DPT0916-018.0-20230918	Water	09/18/23 15:30	09/20/23 08:00
670-27076-16	LC34-DPT0916-025.0-20230918	Water	09/18/23 15:45	09/20/23 08:00
670-27076-17	LC34-DPT0916-034.0-20230918	Water	09/18/23 16:00	09/20/23 08:00
670-27076-18	LC34-DPT0916-038.0-20230918	Water	09/18/23 16:20	09/20/23 08:00
670-27076-19	LC34-DPT0917-008.0-20230919	Water	09/19/23 08:10	09/20/23 08:00
670-27076-20	LC34-DPT0917-013.0-20230919	Water	09/19/23 08:25	09/20/23 08:00
670-27076-21	LC34-DPT0917-018.0-20230919	Water	09/19/23 08:40	09/20/23 08:00
670-27076-22	LC34-DPT0917-025.0-20230919	Water	09/19/23 08:55	09/20/23 08:00
670-27076-23	LC34-DPT0917-034.0-20230919	Water	09/19/23 09:10	09/20/23 08:00
670-27076-24	LC34-DPT0918-008.0-20230919	Water	09/19/23 10:00	09/20/23 08:00
670-27076-25	LC34-DPT0918-013.0-20230919	Water	09/19/23 10:15	09/20/23 08:00
670-27076-26	LC34-DPT0918-018.0-20230919	Water	09/19/23 10:30	09/20/23 08:00
670-27076-27	LC34-DPT0918-025.0-20230919	Water	09/19/23 11:20	09/20/23 08:00
670-27076-28	LC34-DPT0918-034.0-20230919	Water	09/19/23 11:35	09/20/23 08:00
670-27076-29	LC34-DPT0918-038.0-20230919	Water	09/19/23 11:55	09/20/23 08:00
670-27076-30	LC34-DPT0919-008.0-20230919	Water	09/19/23 12:55	09/20/23 08:00
670-27076-31	LC34-DPT0919-013.0-20230919	Water	09/19/23 13:10	09/20/23 08:00
670-27076-32	LC34-DPT0919-018.0-20230919	Water	09/19/23 13:25	09/20/23 08:00
670-27076-33	LC34-DPT0919-025.0-20230919	Water	09/19/23 13:40	09/20/23 08:00
670-27076-34	LC34-DPT0917-038.0-20230919	Water	09/19/23 09:30	09/20/23 08:00

Tetra Tech, Inc.

CHAIN OF CUSTODY | NUMBER No. 3711 | PAGE 1 OF 3

PROJECT NO: 112G08985	FACILITY: KSC-LC34	PROJECT MANAGER Mark Sonnet	PHONE NUMBER (412) 921-8622	LABORATORY NAME AND CONTACT: Eurofins — Kaitlin Dylnicki
SAMPLERS (SIGNATURE) — Chuck Sorden		FIELD OPERATIONS LEADER Chuck Sorden	PHONE NUMBER (321)591-7580	ADDRESS 481 Newburyport Ave.
		CARRIER/WAYBILL NUMBER		CITY, STATE Altamonte Springs, FL

STANDARD TAT ☒
RUSH TAT ☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE (YEAR 2023)	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)	PRESERVATIVE USED	TYPE OF ANALYSIS: 8260D-(MOD) NASA LC34 Custom List	TYPE OF ANALYSIS: 8260D-(MOD) NASA LC34 Custom List	COMMENTS
									G	HCl/4°C			
									G	4°C			
09/18	1020	LC34-DPT0914-008.0-20230918	45	6	10	GW	G	4			X	X	
	1035	LC34-DPT0914-013.0-20230918		11	15								
	1050	LC34-DPT0914-018.0-20230918		16	20								
	1105	LC34-DPT0914-025.0-20230918		23	27								
	1120	LC34-DPT0914-034.0-20230918		32	36								
	1140	LC34-DPT0914-038.0-20230918	45	36	40								
	1230	LC34-DPT0915-008.0-20230918	39	6	10								
	1245	LC34-DPT0915-013.0-20230918		11	15								
	1300	LC34-DPT0915-018.0-20230918		16	20								
	1315	LC34-DPT0915-025.0-20230918		23	27								
	1330	LC34-DPT0915-034.0-20230918		32	36								
	1350	LC34-DPT0915-038.0-20230918	39	36	40								
09/18	1500	LC34-DPT0916-008.0-20230918	33	6	10	GW	G	4			X	X	

670-27076 Chain of Custody

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	09/19/23	1410	1. RECEIVED BY	9.19.23	14:10
2. RELINQUISHED BY			2. RECEIVED BY		
3. RELINQUISHED BY			3. RECEIVED BY		

COMMENTS

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Tetra Tech, Inc.

CHAIN OF CUSTODY | NUMBER No. 3712 | PAGE 2 OF 3

PROJECT NO: 112G08985	FACILITY: KSC-LC34	PROJECT MANAGER Mark Jonnet	PHONE NUMBER (412) 921-8622	LABORATORY NAME AND CONTACT: Eurofins — Kaitlin Dylnicki
SAMPLERS (SIGNATURE) — Chuck Sorden		FIELD OPERATIONS LEADER Chuck Sorden	PHONE NUMBER (321) 591-7580	ADDRESS 481 Newburyport Ave.
		CARRIER/WAYBILL NUMBER		CITY, STATE Altamonte Springs, FL

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2023	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)									
									G	G								
									PRESERVATIVE USED		HCl/4°C	4°C						
									TYPE OF ANALYSIS		8260D (MOD) NASA LC34 Custom List	8260D - (MOD) NASA LC34 Custom List						COMMENTS
09/18	1515	LC34-DPT0916-013.0-20230918	33	11	15	GW	G	4			X	X						
	1530	LC34-DPT0916-018.0-20230918		16	20													
	1545	LC34-DPT0916-025.0-20230918		23	27													
	1600	LC34-DPT0916-034.0-20230918		32	36													
09/18	1620	LC34-DPT0916-038.0-20230918	33	36	40													
09/19	0810	LC34-DPT0917-008.0-20230919	27	6	10													
	0825	LC34-DPT0917-013.0-20230919		11	15													
	0840	LC34-DPT0917-018.0-20230919		16	20													
	0855	LC34-DPT0917-025.0-20230919		23	27													
	0910	LC34-DPT0917-034.0-20230919	27	32	36													
	1000	LC34-DPT0918-008.0-20230919	20	6	10													
	1015	LC34-DPT0918-013.0-20230919		11	15													
09/19	1030	LC34-DPT0918-018.0-20230919	20	16	20	GW	G	4			X	X						

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	09/19/23	1410	1. RECEIVED BY	9.19.23	14:10
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

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FORM NO. TINUS-001

Tetra Tech, Inc.

CHAIN OF CUSTODY | NUMBER No. 3713 | PAGE 3 OF 3

PROJECT NO: 112G08985	FACILITY: KSC-LC34	PROJECT MANAGER Mark Sonnet	PHONE NUMBER (412) 921-8622	LABORATORY NAME AND CONTACT: Eurofins — Kaitlin Dylnicki
SAMPLERS (SIGNATURE) Chuck Sorden		FIELD OPERATIONS LEADER Chuck Sorden	PHONE NUMBER (321) 591-7580	ADDRESS 481 Newburyport Ave.
		CARRIER/WAYBILL NUMBER		CITY, STATE Altamonte Springs, FL

STANDARD TAT ☐
RUSH TAT ☐ ☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2023	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)		PRESERVATIVE USED		TYPE OF ANALYSIS 8260D-(MOD) NASA LC34 Custom List	TYPE OF ANALYSIS 8260D-(MOD) NASA LC34 Custom List	COMMENTS
									G	G	HCl/4°C	4°C			
09/19	1120	LC34-DPT0918-025.0-20230919	20	23	27	GW	G	4					X	X	
	1135	LC34-DPT0918-034.0-20230919	1	32	36										
	1155	LC34-DPT0918-038.0-20230919	20	36	40										
	1255	LC34-DPT0919-008.0-20230919	13	6	10										
	1310	LC34-DPT0919-013.0-20230919	1	11	15										
	1325	LC34-DPT0919-018.0-20230919		16	20										
09/19	1340	LC34-DPT0919-025.0-20230919	13	23	27	GW	G	4					X	X	

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	09/19/23	1410	1. RECEIVED BY	9-19-23	14:10
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

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Tetra Tech, Inc. CHAIN OF CUSTODY | NUMBER No. 3711 | PAGE 1 OF 3

PROJECT NO: 112G08985	FACILITY: KSC-LC34	PROJECT MANAGER Mark Sonnet	PHONE NUMBER (412) 921-8622	LABORATORY NAME AND CONTACT: Eurofins — Kaitlin Dylnicki
SAMPLERS (SIGNATURE) — Chuck Sorden		FIELD OPERATIONS LEADER Chuck Sorden	PHONE NUMBER (321)591-7580	ADDRESS 481 Newburyport Ave.
		CARRIER/WAYBILL NUMBER		CITY, STATE Altamonte Springs, FL

STANDARD TAT ☒ RUSH TAT ☐ ☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE (YEAR 2023)	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)		COMMENTS
									G	G	
									1L	40z	
									PRESERVATIVE USED		
									8260D-(MOD) NASA LC34 Custom List	8260D-(MOD) NASA LC34 Custom List	
09/18	1020	LC34-DPT0914-008.0-20230918	45	6	10	GW	G	4	X	X	
	1035	LC34-DPT0914-013.0-20230918		11	15						
	1050	LC34-DPT0914-018.0-20230918		16	20						
	1105	LC34-DPT0914-025.0-20230918		23	27						
	1120	LC34-DPT0914-034.0-20230918		32	36						
	1140	LC34-DPT0914-038.0-20230918	45	36	40						
	1230	LC34-DPT0915-008.0-20230918	39	6	10						
	1245	LC34-DPT0915-013.0-20230918		11	15						
	1300	LC34-DPT0915-018.0-20230918		16	20						
	1315	LC34-DPT0915-025.0-20230918		23	27						
	1330	LC34-DPT0915-034.0-20230918		32	36						
	1350	LC34-DPT0915-038.0-20230918	39	36	40						
09/18	1500	LC34-DPT0916-008.0-20230918	33	6	10	GW	G	4	X	X	

670-27076 Chain of Custody

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	09/19/23	1410	1. RECEIVED BY	9.19.23	17:10
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE 9-20-23	TIME 0800

COMMENTS 4.0 13.5

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Tetra Tech, Inc. CHAIN OF CUSTODY | NUMBER No. 3712 | PAGE 2 OF 3

PROJECT NO: 112G08985	FACILITY: KSC-LC34	PROJECT MANAGER Mark Sonnet	PHONE NUMBER (412) 921-8622	LABORATORY NAME AND CONTACT: Eurofins – Kaitlin Dylnicki
SAMPLERS (SIGNATURE) – Chuck Sorden		FIELD OPERATIONS LEADER Chuck Sorden	PHONE NUMBER (321) 591-7580	ADDRESS 481 Newburyport Ave.
		CARRIER/WAYBILL NUMBER		CITY, STATE Altamonte Springs, FL

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2023	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)										COMMENTS
									G	G									
									HCl/4°C	4°C									
									8260D(MOD) NASA LC34 Custom List	8260D-(MOD) NASA LC34 Custom List									
09/18	1515	LC34-DPT0916-013.0-20230918	33	11	15	GW	G	4	X	X									
	1530	LC34-DPT0916-018.0-20230918		16	20														
	1545	LC34-DPT0916-025.0-20230918		23	27														
	1600	LC34-DPT0916-034.0-20230918		32	36														
09/18	1620	LC34-DPT0916-038.0-20230918	33	36	40														
09/19	0810	LC34-DPT0917-008.0-20230919	27	6	10														
	0825	LC34-DPT0917-013.0-20230919		11	15														
	0840	LC34-DPT0917-018.0-20230919		16	20														
	0855	LC34-DPT0917-025.0-20230919		23	27														
	0910	LC34-DPT0917-034.0-20230919	27	32	36														
	1000	LC34-DPT0918-008.0-20230919	20	6	10														
	1015	LC34-DPT0918-013.0-20230919		11	15														
09/19	1030	LC34-DPT0918-018.0-20230919	20	16	20	GW	G	4	X	X									

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	09/19/23	1410	1. RECEIVED BY	9.19-23	14:10
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	9-20-23	0800

COMMENTS 4.0 13.5

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FORM NO. TINV-2012 9/28/2023

Tetra Tech, Inc.

CHAIN OF CUSTODY | NUMBER No. 3713 | PAGE 3 OF 3

PROJECT NO: 112G088985	FACILITY: KSC-LC34	PROJECT MANAGER Mark Sonnet	PHONE NUMBER (412) 921-8622	LABORATORY NAME AND CONTACT: Eurofins — Kaitlin Dylnicki
SAMPLERS (SIGNATURE) Chuck Sorden		FIELD OPERATIONS LEADER Chuck Sorden	PHONE NUMBER (321) 591-7580	ADDRESS 481 Newburyport Ave.
		CARRIER/WAYBILL NUMBER		CITY, STATE Altamonte Springs, FL

STANDARD TAT ☐
RUSH TAT ☐ ☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2023	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)		PRESERVATIVE USED		TYPE OF ANALYSIS		COMMENTS
									G	G	HCl/4°C	4°C	8260D-(MOD) NASA LC34 Custom List	8260D-(MOD) NASA LC34 Custom List	
09/19	1120	LC34-DPT0918-025.0-20230919	20	23	27	GW	G	4	X	X					
	1135	LC34-DPT0918-034.0-20230919	1	32	36										
	1155	LC34-DPT0918-038.0-20230919	20	36	40										
	1255	LC34-DPT0919-008.0-20230919	13	6	10										
	1310	LC34-DPT0919-013.0-20230919	1	11	15										
	1325	LC34-DPT0919-018.0-20230919		16	20										
09/19	1340	LC34-DPT0919-025.0-20230919	13	23	27	GW	G	4	X	X					

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	09/19/23	1410	1. RECEIVED BY	9-19-23	14:10
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	9-20-23	0800

COMMENTS 4.0 13.5

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 670-27076-1

Login Number: 27076
List Number: 1
Creator: Lavardera, Angelina

List Source: Eurofins Orlando

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Received extra samples not listed on COC.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 670-27076-1

Login Number: 27076
List Number: 2
Creator: Munro, Caroline

List Source: Eurofins Savannah
List Creation: 09/21/23 04:01 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Mark Jonnet
Tetra Tech, Inc.
Foster Plaza 7
661 Anderson Drive
Suite 200
Pittsburgh, Pennsylvania 15220-2745

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JOB DESCRIPTION

NASA KSC LC34 DPT

JOB NUMBER

670-27160-1

Eurofins Orlando
481 Newburyport Avenue
Altamonte Springs FL 32701

See page two for job notes and contact information.

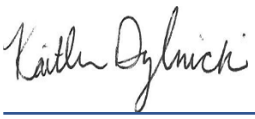
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Job Notes

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The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization



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Revision 1

Authorized for release by
Kaitlin Dylnicki, Project Manager
kaitlin.dylnicki@et.eurofinsus.com
(407)339-5984

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J1	Estimated value; value may not be accurate. Surrogate recovery outside of criteria.
J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
L	Off-scale high. Actual value is known to be greater than the value given.
Q	Sample held beyond the accepted holding time.
U	Indicates that the compound was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job Narrative
Client: Tetra Tech
Client PM: Mark Jonnet
Project: NASA KSC LC34
Project Number: 112G08985
670-27160-1

Revision
The report being provided is a revision of the original report sent on 10/12/2023. The report (revision 1) is being revised to include secondary results not intially included. LC34-DPT0920-025.0-20230919 (670-27160-6)

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 9/21/2023 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.3°C

GC/MS VOA
Method 8260D: The continuing calibration verification (CCV) associated with batch 680-800234 recovered above the upper control limit for Bromomethane, Chloroethane and Trichlorofluoromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260D: The continuing calibration verification (CCV) associated with batch 680-800234 recovered outside acceptance criteria, low biased, for 1,2-Dibromo-3-Chloropropane, 2-Butanone (MEK), 2-Hexanone, Acetone, Chloromethane and Methyl acetate. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

Method 8260D: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 680-800234 recovered outside control limits for the following analytes: Bromomethane, Chloroethane and Trichlorofluoromethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for analytical batch 680-800234 recovered outside control limits for the following analyte(s): 1,2-Dibromo-3-Chloropropane. 1,2-Dibromo-3-Chloropropane have been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260D: The following samples were diluted to bring the concentration of target analytes within the calibration range: LC34-DPT0919-034.0-20230919 (670-27160-1), LC34-DPT00920-013.0-20230919 (670-27160-4), LC34-DPT0920-018.0-20230919 (670-27160-5), LC34-DPT0920-025.0-20230919 (670-27160-6) and LC34-DPT0920-034.0-20230919 (670-27160-7). Elevated reporting limits (RLs) are provided.

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-800234.

Method 8260D: Surrogate recovery for the following sample was outside control limits: LC34-DPT0923-018.0-20230920 (670-27160-23). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8260D: The continuing calibration verification (CCV) associated with batch 680-800321 recovered outside acceptance criteria, low biased, for Dichlorodifluoromethane. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

Method 8260D: The method blank for analytical batch 680-800321 contained 1,3-Dichlorobenzene above the method detection limit (MDL). None of the samples associated with this method blank contained the target compound; therefore, re-extraction and/or re-analysis of samples were not performed.

Method 8260D: The following sample was diluted to bring the concentration of target analytes within the calibration range: LC34-DPT0921-013.0-20230920 (670-27160-10). Elevated reporting limits (RLs) are provided.

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-800321.

Method 8260D: The continuing calibration verification (CCV) associated with batch 680-800533 recovered outside acceptance criteria, low biased, for 1,2-Dibromo-3-Chloropropane, 2-Butanone (MEK), 2-Hexanone, Acetone, Chloromethane and Methyl acetate. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

Method 8260D: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for analytical batch 680-800533 recovered outside control limits for the following analyte(s): 1,2-Dibromo-3-Chloropropane. 1,2-Dibromo-3-Chloropropane have been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260D: The continuing calibration verification (CCV) associated with batch 680-800533 recovered above the upper control limit for Bromomethane, Chloroethane and Trichlorofluoromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260D: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 680-800533 recovered outside control limits for the following analytes: Bromomethane, Chloroethane and Trichlorofluoromethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D: The following sample was diluted to bring the concentration of target analytes within the calibration range: LC34-DPT0923-013.0-20230920 (670-27160-22). Elevated reporting limits (RLs) are provided.

Method 8260D: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 680-800294 and analytical batch 680-800533 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8260D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 680-800294 and analytical batch 680-800533 were outside control limits. Sample matrix interference is suspected.

Method 8260D: The matrix spike/ the matrix spike duplicate (MS/MSD) analyzed in batch 680-800533 was outside the method criteria for the 12 hour window. The data integrity was not impacted and the data has been reported and addressed. All other QC criteria have been met.(680-240706-L-7-A MS) and (680-240706-L-7-A MSD)

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-800923.

Method 8260D: Reanalysis of the following sample was performed outside of the analytical holding time due to dilution required due to abundance of target analytes for Vinyl Chloride and Cis 1,2-Dichloroethene. : LC34-DPT0920-025.0-20230919 (670-27160-6), LC34-DPT0922-018.0-20230920 (670-27160-17), LC34-DPT0922-025.0-20230920 (670-27160-18), LC34-DPT0923-018.0-20230920 (670-27160-23) and LC34-DPT0923-025.0-20230920 (670-27160-24).

Method 8260D: Sample was reanalyzed out of hold for confirmation. LC34-DPT0920-025.0-20230919 (670-27160-6)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27160-1

Client Sample ID: LC34-DPT0919-034.0-20230919 — Lab Sample ID: 670-27160-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	240		10	2.5	ug/L	10		8260D	Total/NA
Vinyl chloride	89		10	4.0	ug/L	10		8260D	Total/NA

Client Sample ID: LC34-DPT0919-038.0-20230919 — Lab Sample ID: 670-27160-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.3		1.0	0.25	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0920-008.0-20230919 — Lab Sample ID: 670-27160-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.36	I	1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	8.0		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT00920-013.0-20230919 — Lab Sample ID: 670-27160-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	170		10	2.5	ug/L	10		8260D	Total/NA
Trichloroethene	3.6	I	10	2.0	ug/L	10		8260D	Total/NA
Vinyl chloride	220		10	4.0	ug/L	10		8260D	Total/NA

Client Sample ID: LC34-DPT0920-018.0-20230919 — Lab Sample ID: 670-27160-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2100		50	13	ug/L	50		8260D	Total/NA
trans-1,2-Dichloroethene	79		50	17	ug/L	50		8260D	Total/NA
Vinyl chloride	1200		50	20	ug/L	50		8260D	Total/NA

Client Sample ID: LC34-DPT0920-025.0-20230919 — Lab Sample ID: 670-27160-6

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	7.5		5.0	1.7	ug/L	5		8260D	Total/NA
cis-1,2-Dichloroethene	5700	L	5.0	1.3	ug/L	5		8260D	Total/NA
trans-1,2-Dichloroethene	140		5.0	1.7	ug/L	5		8260D	Total/NA
Vinyl chloride	1400	L	5.0	2.0	ug/L	5		8260D	Total/NA
cis-1,2-Dichloroethene - RADL	8200	Q	100	25	ug/L	100		8260D	Total/NA
Vinyl chloride - RADL	2000	Q	100	40	ug/L	100		8260D	Total/NA

Client Sample ID: LC34-DPT0920-034.0-20230919 — Lab Sample ID: 670-27160-7

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	170		10	2.5	ug/L	10		8260D	Total/NA
Vinyl chloride	53		10	4.0	ug/L	10		8260D	Total/NA

Client Sample ID: LC34-DPT0920-38.0-20230919 — Lab Sample ID: 670-27160-8

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.45	I	2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	2.3		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	3.0		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0921-008.0-20230920 — Lab Sample ID: 670-27160-9

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bromoform	54		50	30	ug/L	50		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Orlando

Client Sample ID: LC34-DPT0921-008.0-20230920 (Continued) — Lab Sample ID: 670-27160-9

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	170		50	13	ug/L	50		8260D	Total/NA
Vinyl chloride	30	I	50	20	ug/L	50		8260D	Total/NA

Client Sample ID: LC34-DPT0921-013.0-20230920 — Lab Sample ID: 670-27160-10

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	1.4	I	4.0	0.86	ug/L	2		8260D	Total/NA
cis-1,2-Dichloroethene	30		2.0	0.50	ug/L	2		8260D	Total/NA
Vinyl chloride	75		2.0	0.80	ug/L	2		8260D	Total/NA

Client Sample ID: LC34-DPT0921-018.0-20230920 — Lab Sample ID: 670-27160-11

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	5.3		1.0	0.33	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	2300	L	1.0	0.25	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	97		1.0	0.34	ug/L	1		8260D	Total/NA
Vinyl chloride	2000	L	1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0921-025.0-20230920 — Lab Sample ID: 670-27160-12

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	13		1.0	0.33	ug/L	1		8260D	Total/NA
Benzene	0.32	I	1.0	0.27	ug/L	1		8260D	Total/NA
Carbon disulfide	0.50	I	2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	3700	L	1.0	0.25	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	110		1.0	0.34	ug/L	1		8260D	Total/NA
Vinyl chloride	1900	L	1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0921-034.0-20230920 — Lab Sample ID: 670-27160-13

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	20		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	1.6		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0921-038.0-20230920 — Lab Sample ID: 670-27160-14

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.9		1.0	0.25	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0922-008.0-20230920 — Lab Sample ID: 670-27160-15

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.84	I	1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	0.59	I	1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0922-013.0-20230920 — Lab Sample ID: 670-27160-16

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	17		5.0	1.3	ug/L	5		8260D	Total/NA
Vinyl chloride	35		5.0	2.0	ug/L	5		8260D	Total/NA

Client Sample ID: LC34-DPT0922-018.0-20230920 — Lab Sample ID: 670-27160-17

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	2.6		1.0	0.33	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: LC34-DPT0922-018.0-20230920 (Continued) — Lab Sample ID: 670-27160-17

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2200	L	1.0	0.25	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	39		1.0	0.34	ug/L	1		8260D	Total/NA
Vinyl chloride	1200	L	1.0	0.40	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene - DL	2700	Q	25	6.3	ug/L	25		8260D	Total/NA
Vinyl chloride - DL	3300	Q	25	10	ug/L	25		8260D	Total/NA

Client Sample ID: LC34-DPT0922-025.0-20230920 — Lab Sample ID: 670-27160-18

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	2.4		1.0	0.33	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	2300	L	1.0	0.25	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	28		1.0	0.34	ug/L	1		8260D	Total/NA
Vinyl chloride	1100	L	1.0	0.40	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene - DL	2200	Q	25	6.3	ug/L	25		8260D	Total/NA
Vinyl chloride - DL	860	Q	25	10	ug/L	25		8260D	Total/NA

Client Sample ID: LC34-DPT0922-034.0-20230920 — Lab Sample ID: 670-27160-19

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	77		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	10		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0922-038.0-20230920 — Lab Sample ID: 670-27160-20

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.5		1.0	0.25	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0923-008.0-20230920 — Lab Sample ID: 670-27160-21

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.4	I	2.0	0.50	ug/L	2		8260D	Total/NA

Client Sample ID: LC34-DPT0923-013.0-20230920 — Lab Sample ID: 670-27160-22

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	320		5.0	1.3	ug/L	5		8260D	Total/NA
Vinyl chloride	260		5.0	2.0	ug/L	5		8260D	Total/NA

Client Sample ID: LC34-DPT0923-018.0-20230920 — Lab Sample ID: 670-27160-23

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	0.66	I	1.0	0.33	ug/L	1		8260D	Total/NA
Bromomethane	4.4	I	5.0	3.7	ug/L	1		8260D	Total/NA
Chloromethane	1.2		1.0	0.54	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	2200	L	1.0	0.25	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	9.4		1.0	0.34	ug/L	1		8260D	Total/NA
Vinyl chloride	670	L	1.0	0.40	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene - DL	2100	Q	25	6.3	ug/L	25		8260D	Total/NA
Vinyl chloride - DL	570	Q	25	10	ug/L	25		8260D	Total/NA

Client Sample ID: LC34-DPT0923-025.0-20230920 — Lab Sample ID: 670-27160-24

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloromethane	0.67	I	1.0	0.54	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: LC34-DPT0923-025.0-20230920 (Continued) — Lab Sample ID: 670-27160-24

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1700	L	1.0	0.25	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	2.3		1.0	0.34	ug/L	1		8260D	Total/NA
Vinyl chloride	160		1.0	0.40	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene - DL	1600	Q	25	6.3	ug/L	25		8260D	Total/NA
Vinyl chloride - DL	160	Q	25	10	ug/L	25		8260D	Total/NA

Client Sample ID: LC34-DPT0923-034.0-20230920 — Lab Sample ID: 670-27160-25

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.3	I	2.0	0.50	ug/L	2		8260D	Total/NA

Client Sample ID: LC34-DPT0923-038.0-20230920 — Lab Sample ID: 670-27160-26

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	3.4	I	10	2.5	ug/L	10		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27160-1

Client Sample ID: LC34-DPT0919-034.0-20230919
Date Collected: 09/19/23 13:55
Date Received: 09/21/23 08:00

Lab Sample ID: 670-27160-1
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2.1	U	10	2.1	ug/L			09/29/23 20:19	10
1,1,2,2-Tetrachloroethane	4.0	U	10	4.0	ug/L			09/29/23 20:19	10
1,1,2-Trichloro-1,2,2-trifluoroethane	2.3	U	10	2.3	ug/L			09/29/23 20:19	10
1,1,2-Trichloroethane	3.2	U	10	3.2	ug/L			09/29/23 20:19	10
1,1-Dichloroethane	3.3	U	10	3.3	ug/L			09/29/23 20:19	10
1,1-Dichloroethene	3.3	U	10	3.3	ug/L			09/29/23 20:19	10
1,2,4-Trichlorobenzene	5.3	U	50	5.3	ug/L			09/29/23 20:19	10
1,2-Dibromo-3-Chloropropane	18	U J3	50	18	ug/L			09/29/23 20:19	10
1,2-Dibromoethane (EDB)	3.3	U	10	3.3	ug/L			09/29/23 20:19	10
1,2-Dichlorobenzene	3.1	U	10	3.1	ug/L			09/29/23 20:19	10
1,2-Dichloroethane	2.5	U	10	2.5	ug/L			09/29/23 20:19	10
1,2-Dichloropropane	2.2	U	10	2.2	ug/L			09/29/23 20:19	10
1,3-Dichlorobenzene	3.1	U	10	3.1	ug/L			09/29/23 20:19	10
1,4-Dichlorobenzene	3.1	U	10	3.1	ug/L			09/29/23 20:19	10
2-Butanone (MEK)	64	U	100	64	ug/L			09/29/23 20:19	10
2-Hexanone	32	U	100	32	ug/L			09/29/23 20:19	10
4-Methyl-2-pentanone	27	U	100	27	ug/L			09/29/23 20:19	10
Acetone	37	U	100	37	ug/L			09/29/23 20:19	10
Benzene	2.7	U	10	2.7	ug/L			09/29/23 20:19	10
Bromodichloromethane	2.5	U	10	2.5	ug/L			09/29/23 20:19	10
Bromoform	5.9	U	10	5.9	ug/L			09/29/23 20:19	10
Bromomethane	37	U J3	50	37	ug/L			09/29/23 20:19	10
Carbon disulfide	4.3	U	20	4.3	ug/L			09/29/23 20:19	10
Carbon tetrachloride	3.0	U	10	3.0	ug/L			09/29/23 20:19	10
Chlorobenzene	1.5	U	10	1.5	ug/L			09/29/23 20:19	10
Chloroethane	46	U J3	50	46	ug/L			09/29/23 20:19	10
Chloroform	2.7	U	10	2.7	ug/L			09/29/23 20:19	10
Chloromethane	5.4	U	10	5.4	ug/L			09/29/23 20:19	10
cis-1,2-Dichloroethene	**240**		10	2.5	ug/L			09/29/23 20:19	10
cis-1,3-Dichloropropene	2.6	U	10	2.6	ug/L			09/29/23 20:19	10
Cyclohexane	2.8	U	10	2.8	ug/L			09/29/23 20:19	10
Dibromochloromethane	3.9	U	10	3.9	ug/L			09/29/23 20:19	10
Dichlorodifluoromethane	3.6	U	10	3.6	ug/L			09/29/23 20:19	10
Ethylbenzene	2.0	U	10	2.0	ug/L			09/29/23 20:19	10
Isopropylbenzene	2.6	U	10	2.6	ug/L			09/29/23 20:19	10
m,p-Xylenes	4.9	U	10	4.9	ug/L			09/29/23 20:19	10
Methyl acetate	32	U	50	32	ug/L			09/29/23 20:19	10
Methyl tert-butyl ether	8.1	U	50	8.1	ug/L			09/29/23 20:19	10
Methylene Chloride	32	U	50	32	ug/L			09/29/23 20:19	10
o-Xylene	2.6	U	10	2.6	ug/L			09/29/23 20:19	10
Styrene	2.7	U	10	2.7	ug/L			09/29/23 20:19	10
Tetrachloroethene	3.5	U	10	3.5	ug/L			09/29/23 20:19	10
Toluene	2.5	U	10	2.5	ug/L			09/29/23 20:19	10
trans-1,2-Dichloroethene	3.4	U	10	3.4	ug/L			09/29/23 20:19	10
trans-1,3-Dichloropropene	2.3	U	10	2.3	ug/L			09/29/23 20:19	10
Trichloroethene	2.0	U	10	2.0	ug/L			09/29/23 20:19	10
Trichlorofluoromethane	3.3	U J3	10	3.3	ug/L			09/29/23 20:19	10
Vinyl chloride	**89**		10	4.0	ug/L			09/29/23 20:19	10
Xylenes, Total	2.3	U	10	2.3	ug/L			09/29/23 20:19	10

Client Sample ID: LC34-DPT0919-034.0-20230919

Lab Sample ID: 670-27160-1

Date Collected: 09/19/23 13:55

Matrix: Water

Date Received: 09/21/23 08:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 124*		*09/29/23 20:19*	*10*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*		*09/29/23 20:19*	*10*
Dibromofluoromethane (Surr)	*107*		*70 - 130*		*09/29/23 20:19*	*10*
Toluene-d8 (Surr)	*102*		*70 - 130*		*09/29/23 20:19*	*10*

Client Sample ID: LC34-DPT0919-038.0-20230919

Lab Sample ID: 670-27160-2

Date Collected: 09/19/23 14:15

Matrix: Water

Date Received: 09/21/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			09/29/23 18:22	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			09/29/23 18:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			09/29/23 18:22	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			09/29/23 18:22	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			09/29/23 18:22	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			09/29/23 18:22	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			09/29/23 18:22	1
1,2-Dibromo-3-Chloropropane	1.8	U J3	5.0	1.8	ug/L			09/29/23 18:22	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			09/29/23 18:22	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/29/23 18:22	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			09/29/23 18:22	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			09/29/23 18:22	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/29/23 18:22	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/29/23 18:22	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			09/29/23 18:22	1
2-Hexanone	3.2	U	10	3.2	ug/L			09/29/23 18:22	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			09/29/23 18:22	1
Acetone	3.7	U	10	3.7	ug/L			09/29/23 18:22	1
Benzene	0.27	U	1.0	0.27	ug/L			09/29/23 18:22	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			09/29/23 18:22	1
Bromoform	0.59	U	1.0	0.59	ug/L			09/29/23 18:22	1
Bromomethane	3.7	U J3	5.0	3.7	ug/L			09/29/23 18:22	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			09/29/23 18:22	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			09/29/23 18:22	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			09/29/23 18:22	1
Chloroethane	4.6	U J3	5.0	4.6	ug/L			09/29/23 18:22	1
Chloroform	0.27	U	1.0	0.27	ug/L			09/29/23 18:22	1
Chloromethane	0.54	U	1.0	0.54	ug/L			09/29/23 18:22	1
cis-1,2-Dichloroethene	**1.3**		1.0	0.25	ug/L			09/29/23 18:22	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			09/29/23 18:22	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			09/29/23 18:22	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			09/29/23 18:22	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			09/29/23 18:22	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			09/29/23 18:22	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			09/29/23 18:22	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			09/29/23 18:22	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			09/29/23 18:22	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			09/29/23 18:22	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			09/29/23 18:22	1

Client Sample ID: LC34-DPT0919-038.0-20230919

Lab Sample ID: 670-27160-2

Date Collected: 09/19/23 14:15

Matrix: Water

Date Received: 09/21/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	0.26	U	1.0	0.26	ug/L			09/29/23 18:22	1
Styrene	0.27	U	1.0	0.27	ug/L			09/29/23 18:22	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			09/29/23 18:22	1
Toluene	0.25	U	1.0	0.25	ug/L			09/29/23 18:22	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			09/29/23 18:22	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			09/29/23 18:22	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			09/29/23 18:22	1
Trichlorofluoromethane	0.33	U J3	1.0	0.33	ug/L			09/29/23 18:22	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			09/29/23 18:22	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			09/29/23 18:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*60 - 124*		*09/29/23 18:22*	*1*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*		*09/29/23 18:22*	*1*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*09/29/23 18:22*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*09/29/23 18:22*	*1*

Client Sample ID: LC34-DPT0920-008.0-20230919

Lab Sample ID: 670-27160-3

Date Collected: 09/19/23 14:50

Matrix: Water

Date Received: 09/21/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			09/29/23 18:46	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			09/29/23 18:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			09/29/23 18:46	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			09/29/23 18:46	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			09/29/23 18:46	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			09/29/23 18:46	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			09/29/23 18:46	1
1,2-Dibromo-3-Chloropropane	1.8	U J3	5.0	1.8	ug/L			09/29/23 18:46	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			09/29/23 18:46	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/29/23 18:46	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			09/29/23 18:46	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			09/29/23 18:46	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/29/23 18:46	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/29/23 18:46	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			09/29/23 18:46	1
2-Hexanone	3.2	U	10	3.2	ug/L			09/29/23 18:46	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			09/29/23 18:46	1
Acetone	3.7	U	10	3.7	ug/L			09/29/23 18:46	1
Benzene	0.27	U	1.0	0.27	ug/L			09/29/23 18:46	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			09/29/23 18:46	1
Bromoform	0.59	U	1.0	0.59	ug/L			09/29/23 18:46	1
Bromomethane	3.7	U J3	5.0	3.7	ug/L			09/29/23 18:46	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			09/29/23 18:46	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			09/29/23 18:46	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			09/29/23 18:46	1
Chloroethane	4.6	U J3	5.0	4.6	ug/L			09/29/23 18:46	1
Chloroform	0.27	U	1.0	0.27	ug/L			09/29/23 18:46	1

Client Sample ID: LC34-DPT0920-008.0-20230919

Lab Sample ID: 670-27160-3

Date Collected: 09/19/23 14:50

Matrix: Water

Date Received: 09/21/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	0.54	U	1.0	0.54	ug/L			09/29/23 18:46	1
cis-1,2-Dichloroethene	**0.36**	**I**	1.0	0.25	ug/L			09/29/23 18:46	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			09/29/23 18:46	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			09/29/23 18:46	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			09/29/23 18:46	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			09/29/23 18:46	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			09/29/23 18:46	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			09/29/23 18:46	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			09/29/23 18:46	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			09/29/23 18:46	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			09/29/23 18:46	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			09/29/23 18:46	1
o-Xylene	0.26	U	1.0	0.26	ug/L			09/29/23 18:46	1
Styrene	0.27	U	1.0	0.27	ug/L			09/29/23 18:46	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			09/29/23 18:46	1
Toluene	0.25	U	1.0	0.25	ug/L			09/29/23 18:46	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			09/29/23 18:46	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			09/29/23 18:46	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			09/29/23 18:46	1
Trichlorofluoromethane	0.33	U J3	1.0	0.33	ug/L			09/29/23 18:46	1
Vinyl chloride	**8.0**		1.0	0.40	ug/L			09/29/23 18:46	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			09/29/23 18:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 124*		*09/29/23 18:46*	*1*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*		*09/29/23 18:46*	*1*
Dibromofluoromethane (Surr)	*108*		*70 - 130*		*09/29/23 18:46*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*09/29/23 18:46*	*1*

Client Sample ID: LC34-DPT00920-013.0-20230919

Lab Sample ID: 670-27160-4

Date Collected: 09/19/23 15:05

Matrix: Water

Date Received: 09/21/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2.1	U	10	2.1	ug/L			09/29/23 21:29	10
1,1,2,2-Tetrachloroethane	4.0	U	10	4.0	ug/L			09/29/23 21:29	10
1,1,2-Trichloro-1,2,2-trifluoroethane	2.3	U	10	2.3	ug/L			09/29/23 21:29	10
1,1,2-Trichloroethane	3.2	U	10	3.2	ug/L			09/29/23 21:29	10
1,1-Dichloroethane	3.3	U	10	3.3	ug/L			09/29/23 21:29	10
1,1-Dichloroethene	3.3	U	10	3.3	ug/L			09/29/23 21:29	10
1,2,4-Trichlorobenzene	5.3	U	50	5.3	ug/L			09/29/23 21:29	10
1,2-Dibromo-3-Chloropropane	18	U J3	50	18	ug/L			09/29/23 21:29	10
1,2-Dibromoethane (EDB)	3.3	U	10	3.3	ug/L			09/29/23 21:29	10
1,2-Dichlorobenzene	3.1	U	10	3.1	ug/L			09/29/23 21:29	10
1,2-Dichloroethane	2.5	U	10	2.5	ug/L			09/29/23 21:29	10
1,2-Dichloropropane	2.2	U	10	2.2	ug/L			09/29/23 21:29	10
1,3-Dichlorobenzene	3.1	U	10	3.1	ug/L			09/29/23 21:29	10
1,4-Dichlorobenzene	3.1	U	10	3.1	ug/L			09/29/23 21:29	10
2-Butanone (MEK)	64	U	100	64	ug/L			09/29/23 21:29	10

Client Sample ID: LC34-DPT00920-013.0-20230919

Lab Sample ID: 670-27160-4

Date Collected: 09/19/23 15:05

Matrix: Water

Date Received: 09/21/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	32	U	100	32	ug/L			09/29/23 21:29	10
4-Methyl-2-pentanone	27	U	100	27	ug/L			09/29/23 21:29	10
Acetone	37	U	100	37	ug/L			09/29/23 21:29	10
Benzene	2.7	U	10	2.7	ug/L			09/29/23 21:29	10
Bromodichloromethane	2.5	U	10	2.5	ug/L			09/29/23 21:29	10
Bromoform	5.9	U	10	5.9	ug/L			09/29/23 21:29	10
Bromomethane	37	U J3	50	37	ug/L			09/29/23 21:29	10
Carbon disulfide	4.3	U	20	4.3	ug/L			09/29/23 21:29	10
Carbon tetrachloride	3.0	U	10	3.0	ug/L			09/29/23 21:29	10
Chlorobenzene	1.5	U	10	1.5	ug/L			09/29/23 21:29	10
Chloroethane	46	U J3	50	46	ug/L			09/29/23 21:29	10
Chloroform	2.7	U	10	2.7	ug/L			09/29/23 21:29	10
Chloromethane	5.4	U	10	5.4	ug/L			09/29/23 21:29	10
cis-1,2-Dichloroethene	**170**		10	2.5	ug/L			09/29/23 21:29	10
cis-1,3-Dichloropropene	2.6	U	10	2.6	ug/L			09/29/23 21:29	10
Cyclohexane	2.8	U	10	2.8	ug/L			09/29/23 21:29	10
Dibromochloromethane	3.9	U	10	3.9	ug/L			09/29/23 21:29	10
Dichlorodifluoromethane	3.6	U	10	3.6	ug/L			09/29/23 21:29	10
Ethylbenzene	2.0	U	10	2.0	ug/L			09/29/23 21:29	10
Isopropylbenzene	2.6	U	10	2.6	ug/L			09/29/23 21:29	10
m,p-Xylenes	4.9	U	10	4.9	ug/L			09/29/23 21:29	10
Methyl acetate	32	U	50	32	ug/L			09/29/23 21:29	10
Methyl tert-butyl ether	8.1	U	50	8.1	ug/L			09/29/23 21:29	10
Methylene Chloride	32	U	50	32	ug/L			09/29/23 21:29	10
o-Xylene	2.6	U	10	2.6	ug/L			09/29/23 21:29	10
Styrene	2.7	U	10	2.7	ug/L			09/29/23 21:29	10
Tetrachloroethene	3.5	U	10	3.5	ug/L			09/29/23 21:29	10
Toluene	2.5	U	10	2.5	ug/L			09/29/23 21:29	10
trans-1,2-Dichloroethene	3.4	U	10	3.4	ug/L			09/29/23 21:29	10
trans-1,3-Dichloropropene	2.3	U	10	2.3	ug/L			09/29/23 21:29	10
Trichloroethene	**3.6**	**I**	10	2.0	ug/L			09/29/23 21:29	10
Trichlorofluoromethane	3.3	U J3	10	3.3	ug/L			09/29/23 21:29	10
Vinyl chloride	**220**		10	4.0	ug/L			09/29/23 21:29	10
Xylenes, Total	2.3	U	10	2.3	ug/L			09/29/23 21:29	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*60 - 124*		*09/29/23 21:29*	*10*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*		*09/29/23 21:29*	*10*
Dibromofluoromethane (Surr)	*107*		*70 - 130*		*09/29/23 21:29*	*10*
Toluene-d8 (Surr)	*101*		*70 - 130*		*09/29/23 21:29*	*10*

Client Sample ID: LC34-DPT0920-018.0-20230919

Lab Sample ID: 670-27160-5

Date Collected: 09/19/23 15:20

Matrix: Water

Date Received: 09/21/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	11	U	50	11	ug/L			09/29/23 19:32	50
1,1,2,2-Tetrachloroethane	20	U	50	20	ug/L			09/29/23 19:32	50
1,1,2-Trichloro-1,2,2-trifluoroethane	12	U	50	12	ug/L			09/29/23 19:32	50

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27160-1

Client Sample ID: LC34-DPT0920-018.0-20230919
Date Collected: 09/19/23 15:20
Date Received: 09/21/23 08:00

Lab Sample ID: 670-27160-5
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	16	U	50	16	ug/L			09/29/23 19:32	50
1,1-Dichloroethane	17	U	50	17	ug/L			09/29/23 19:32	50
1,1-Dichloroethene	17	U	50	17	ug/L			09/29/23 19:32	50
1,2,4-Trichlorobenzene	27	U	250	27	ug/L			09/29/23 19:32	50
1,2-Dibromo-3-Chloropropane	90	U J3	250	90	ug/L			09/29/23 19:32	50
1,2-Dibromoethane (EDB)	17	U	50	17	ug/L			09/29/23 19:32	50
1,2-Dichlorobenzene	16	U	50	16	ug/L			09/29/23 19:32	50
1,2-Dichloroethane	13	U	50	13	ug/L			09/29/23 19:32	50
1,2-Dichloropropane	11	U	50	11	ug/L			09/29/23 19:32	50
1,3-Dichlorobenzene	16	U	50	16	ug/L			09/29/23 19:32	50
1,4-Dichlorobenzene	16	U	50	16	ug/L			09/29/23 19:32	50
2-Butanone (MEK)	320	U	500	320	ug/L			09/29/23 19:32	50
2-Hexanone	160	U	500	160	ug/L			09/29/23 19:32	50
4-Methyl-2-pentanone	140	U	500	140	ug/L			09/29/23 19:32	50
Acetone	190	U	500	190	ug/L			09/29/23 19:32	50
Benzene	14	U	50	14	ug/L			09/29/23 19:32	50
Bromodichloromethane	13	U	50	13	ug/L			09/29/23 19:32	50
Bromoform	30	U	50	30	ug/L			09/29/23 19:32	50
Bromomethane	190	U J3	250	190	ug/L			09/29/23 19:32	50
Carbon disulfide	22	U	100	22	ug/L			09/29/23 19:32	50
Carbon tetrachloride	15	U	50	15	ug/L			09/29/23 19:32	50
Chlorobenzene	7.5	U	50	7.5	ug/L			09/29/23 19:32	50
Chloroethane	230	U J3	250	230	ug/L			09/29/23 19:32	50
Chloroform	14	U	50	14	ug/L			09/29/23 19:32	50
Chloromethane	27	U	50	27	ug/L			09/29/23 19:32	50
cis-1,2-Dichloroethene	**2100**		50	13	ug/L			09/29/23 19:32	50
cis-1,3-Dichloropropene	13	U	50	13	ug/L			09/29/23 19:32	50
Cyclohexane	14	U	50	14	ug/L			09/29/23 19:32	50
Dibromochloromethane	20	U	50	20	ug/L			09/29/23 19:32	50
Dichlorodifluoromethane	18	U	50	18	ug/L			09/29/23 19:32	50
Ethylbenzene	10	U	50	10	ug/L			09/29/23 19:32	50
Isopropylbenzene	13	U	50	13	ug/L			09/29/23 19:32	50
m,p-Xylenes	25	U	50	25	ug/L			09/29/23 19:32	50
Methyl acetate	160	U	250	160	ug/L			09/29/23 19:32	50
Methyl tert-butyl ether	41	U	250	41	ug/L			09/29/23 19:32	50
Methylene Chloride	160	U	250	160	ug/L			09/29/23 19:32	50
o-Xylene	13	U	50	13	ug/L			09/29/23 19:32	50
Styrene	14	U	50	14	ug/L			09/29/23 19:32	50
Tetrachloroethene	18	U	50	18	ug/L			09/29/23 19:32	50
Toluene	13	U	50	13	ug/L			09/29/23 19:32	50
trans-1,2-Dichloroethene	**79**		50	17	ug/L			09/29/23 19:32	50
trans-1,3-Dichloropropene	12	U	50	12	ug/L			09/29/23 19:32	50
Trichloroethene	10	U	50	10	ug/L			09/29/23 19:32	50
Trichlorofluoromethane	17	U J3	50	17	ug/L			09/29/23 19:32	50
Vinyl chloride	**1200**		50	20	ug/L			09/29/23 19:32	50
Xylenes, Total	12	U	50	12	ug/L			09/29/23 19:32	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 124*		*09/29/23 19:32*	*50*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*		*09/29/23 19:32*	*50*

Client Sample ID: LC34-DPT0920-018.0-20230919

Lab Sample ID: 670-27160-5

Date Collected: 09/19/23 15:20

Matrix: Water

Date Received: 09/21/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*108*		*70 - 130*		*09/29/23 19:32*	*50*
Toluene-d8 (Surr)	*101*		*70 - 130*		*09/29/23 19:32*	*50*

Client Sample ID: LC34-DPT0920-025.0-20230919

Lab Sample ID: 670-27160-6

Date Collected: 09/19/23 15:35

Matrix: Water

Date Received: 09/21/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	5.0	1.1	ug/L			09/29/23 19:55	5
1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	ug/L			09/29/23 19:55	5
1,1,2-Trichloro-1,2,2-trifluoroethane	1.2	U	5.0	1.2	ug/L			09/29/23 19:55	5
1,1,2-Trichloroethane	1.6	U	5.0	1.6	ug/L			09/29/23 19:55	5
1,1-Dichloroethane	1.7	U	5.0	1.7	ug/L			09/29/23 19:55	5
1,1-Dichloroethene	**7.5**		5.0	1.7	ug/L			09/29/23 19:55	5
1,2,4-Trichlorobenzene	2.7	U	25	2.7	ug/L			09/29/23 19:55	5
1,2-Dibromo-3-Chloropropane	9.0	U J3	25	9.0	ug/L			09/29/23 19:55	5
1,2-Dibromoethane (EDB)	1.7	U	5.0	1.7	ug/L			09/29/23 19:55	5
1,2-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			09/29/23 19:55	5
1,2-Dichloroethane	1.3	U	5.0	1.3	ug/L			09/29/23 19:55	5
1,2-Dichloropropane	1.1	U	5.0	1.1	ug/L			09/29/23 19:55	5
1,3-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			09/29/23 19:55	5
1,4-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			09/29/23 19:55	5
2-Butanone (MEK)	32	U	50	32	ug/L			09/29/23 19:55	5
2-Hexanone	16	U	50	16	ug/L			09/29/23 19:55	5
4-Methyl-2-pentanone	14	U	50	14	ug/L			09/29/23 19:55	5
Acetone	19	U	50	19	ug/L			09/29/23 19:55	5
Benzene	1.4	U	5.0	1.4	ug/L			09/29/23 19:55	5
Bromodichloromethane	1.3	U	5.0	1.3	ug/L			09/29/23 19:55	5
Bromoform	3.0	U	5.0	3.0	ug/L			09/29/23 19:55	5
Bromomethane	19	U J3	25	19	ug/L			09/29/23 19:55	5
Carbon disulfide	2.2	U	10	2.2	ug/L			09/29/23 19:55	5
Carbon tetrachloride	1.5	U	5.0	1.5	ug/L			09/29/23 19:55	5
Chlorobenzene	0.75	U	5.0	0.75	ug/L			09/29/23 19:55	5
Chloroethane	23	U J3	25	23	ug/L			09/29/23 19:55	5
Chloroform	1.4	U	5.0	1.4	ug/L			09/29/23 19:55	5
Chloromethane	2.7	U	5.0	2.7	ug/L			09/29/23 19:55	5
cis-1,2-Dichloroethene	**5700**	**L**	5.0	1.3	ug/L			09/29/23 19:55	5
cis-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			09/29/23 19:55	5
Cyclohexane	1.4	U	5.0	1.4	ug/L			09/29/23 19:55	5
Dibromochloromethane	2.0	U	5.0	2.0	ug/L			09/29/23 19:55	5
Dichlorodifluoromethane	1.8	U	5.0	1.8	ug/L			09/29/23 19:55	5
Ethylbenzene	1.0	U	5.0	1.0	ug/L			09/29/23 19:55	5
Isopropylbenzene	1.3	U	5.0	1.3	ug/L			09/29/23 19:55	5
m,p-Xylenes	2.5	U	5.0	2.5	ug/L			09/29/23 19:55	5
Methyl acetate	16	U	25	16	ug/L			09/29/23 19:55	5
Methyl tert-butyl ether	4.1	U	25	4.1	ug/L			09/29/23 19:55	5
Methylene Chloride	16	U	25	16	ug/L			09/29/23 19:55	5
o-Xylene	1.3	U	5.0	1.3	ug/L			09/29/23 19:55	5

Client Sample ID: LC34-DPT0920-025.0-20230919

Lab Sample ID: 670-27160-6

Date Collected: 09/19/23 15:35

Matrix: Water

Date Received: 09/21/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	1.4	U	5.0	1.4	ug/L			09/29/23 19:55	5
Tetrachloroethene	1.8	U	5.0	1.8	ug/L			09/29/23 19:55	5
Toluene	1.3	U	5.0	1.3	ug/L			09/29/23 19:55	5
trans-1,2-Dichloroethene	**140**		5.0	1.7	ug/L			09/29/23 19:55	5
trans-1,3-Dichloropropene	1.2	U	5.0	1.2	ug/L			09/29/23 19:55	5
Trichloroethene	1.0	U	5.0	1.0	ug/L			09/29/23 19:55	5
Trichlorofluoromethane	1.7	U J3	5.0	1.7	ug/L			09/29/23 19:55	5
Vinyl chloride	**1400**	**L**	5.0	2.0	ug/L			09/29/23 19:55	5
Xylenes, Total	1.2	U	5.0	1.2	ug/L			09/29/23 19:55	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 124*		*09/29/23 19:55*	*5*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*		*09/29/23 19:55*	*5*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*09/29/23 19:55*	*5*
Toluene-d8 (Surr)	*101*		*70 - 130*		*09/29/23 19:55*	*5*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RADL

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**8200**	**Q**	100	25	ug/L			10/06/23 16:06	100
Vinyl chloride	**2000**	**Q**	100	40	ug/L			10/06/23 16:06	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*60 - 124*		*10/06/23 16:06*	*100*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*10/06/23 16:06*	*100*
Dibromofluoromethane (Surr)	*117*		*70 - 130*		*10/06/23 16:06*	*100*
Toluene-d8 (Surr)	*116*		*70 - 130*		*10/06/23 16:06*	*100*

Client Sample ID: LC34-DPT0920-034.0-20230919

Lab Sample ID: 670-27160-7

Date Collected: 09/19/23 15:55

Matrix: Water

Date Received: 09/21/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2.1	U	10	2.1	ug/L			09/29/23 20:42	10
1,1,2,2-Tetrachloroethane	4.0	U	10	4.0	ug/L			09/29/23 20:42	10
1,1,2-Trichloro-1,2,2-trifluoroethane	2.3	U	10	2.3	ug/L			09/29/23 20:42	10
1,1,2-Trichloroethane	3.2	U	10	3.2	ug/L			09/29/23 20:42	10
1,1-Dichloroethane	3.3	U	10	3.3	ug/L			09/29/23 20:42	10
1,1-Dichloroethene	3.3	U	10	3.3	ug/L			09/29/23 20:42	10
1,2,4-Trichlorobenzene	5.3	U	50	5.3	ug/L			09/29/23 20:42	10
1,2-Dibromo-3-Chloropropane	18	U J3	50	18	ug/L			09/29/23 20:42	10
1,2-Dibromoethane (EDB)	3.3	U	10	3.3	ug/L			09/29/23 20:42	10
1,2-Dichlorobenzene	3.1	U	10	3.1	ug/L			09/29/23 20:42	10
1,2-Dichloroethane	2.5	U	10	2.5	ug/L			09/29/23 20:42	10
1,2-Dichloropropane	2.2	U	10	2.2	ug/L			09/29/23 20:42	10
1,3-Dichlorobenzene	3.1	U	10	3.1	ug/L			09/29/23 20:42	10
1,4-Dichlorobenzene	3.1	U	10	3.1	ug/L			09/29/23 20:42	10
2-Butanone (MEK)	64	U	100	64	ug/L			09/29/23 20:42	10
2-Hexanone	32	U	100	32	ug/L			09/29/23 20:42	10
4-Methyl-2-pentanone	27	U	100	27	ug/L			09/29/23 20:42	10
Acetone	37	U	100	37	ug/L			09/29/23 20:42	10

Client Sample ID: LC34-DPT0920-034.0-20230919

Lab Sample ID: 670-27160-7

Date Collected: 09/19/23 15:55

Matrix: Water

Date Received: 09/21/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	2.7	U	10	2.7	ug/L			09/29/23 20:42	10
Bromodichloromethane	2.5	U	10	2.5	ug/L			09/29/23 20:42	10
Bromoform	5.9	U	10	5.9	ug/L			09/29/23 20:42	10
Bromomethane	37	U J3	50	37	ug/L			09/29/23 20:42	10
Carbon disulfide	4.3	U	20	4.3	ug/L			09/29/23 20:42	10
Carbon tetrachloride	3.0	U	10	3.0	ug/L			09/29/23 20:42	10
Chlorobenzene	1.5	U	10	1.5	ug/L			09/29/23 20:42	10
Chloroethane	46	U J3	50	46	ug/L			09/29/23 20:42	10
Chloroform	2.7	U	10	2.7	ug/L			09/29/23 20:42	10
Chloromethane	5.4	U	10	5.4	ug/L			09/29/23 20:42	10
cis-1,2-Dichloroethene	**170**		10	2.5	ug/L			09/29/23 20:42	10
cis-1,3-Dichloropropene	2.6	U	10	2.6	ug/L			09/29/23 20:42	10
Cyclohexane	2.8	U	10	2.8	ug/L			09/29/23 20:42	10
Dibromochloromethane	3.9	U	10	3.9	ug/L			09/29/23 20:42	10
Dichlorodifluoromethane	3.6	U	10	3.6	ug/L			09/29/23 20:42	10
Ethylbenzene	2.0	U	10	2.0	ug/L			09/29/23 20:42	10
Isopropylbenzene	2.6	U	10	2.6	ug/L			09/29/23 20:42	10
m,p-Xylenes	4.9	U	10	4.9	ug/L			09/29/23 20:42	10
Methyl acetate	32	U	50	32	ug/L			09/29/23 20:42	10
Methyl tert-butyl ether	8.1	U	50	8.1	ug/L			09/29/23 20:42	10
Methylene Chloride	32	U	50	32	ug/L			09/29/23 20:42	10
o-Xylene	2.6	U	10	2.6	ug/L			09/29/23 20:42	10
Styrene	2.7	U	10	2.7	ug/L			09/29/23 20:42	10
Tetrachloroethene	3.5	U	10	3.5	ug/L			09/29/23 20:42	10
Toluene	2.5	U	10	2.5	ug/L			09/29/23 20:42	10
trans-1,2-Dichloroethene	3.4	U	10	3.4	ug/L			09/29/23 20:42	10
trans-1,3-Dichloropropene	2.3	U	10	2.3	ug/L			09/29/23 20:42	10
Trichloroethene	2.0	U	10	2.0	ug/L			09/29/23 20:42	10
Trichlorofluoromethane	3.3	U J3	10	3.3	ug/L			09/29/23 20:42	10
Vinyl chloride	**53**		10	4.0	ug/L			09/29/23 20:42	10
Xylenes, Total	2.3	U	10	2.3	ug/L			09/29/23 20:42	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 124*		*09/29/23 20:42*	*10*
4-Bromofluorobenzene (Surr)	*81*		*70 - 130*		*09/29/23 20:42*	*10*
Dibromofluoromethane (Surr)	*108*		*70 - 130*		*09/29/23 20:42*	*10*
Toluene-d8 (Surr)	*101*		*70 - 130*		*09/29/23 20:42*	*10*

Client Sample ID: LC34-DPT0920-38.0-20230919

Lab Sample ID: 670-27160-8

Date Collected: 09/19/23 16:15

Matrix: Water

Date Received: 09/21/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			09/29/23 19:09	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			09/29/23 19:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			09/29/23 19:09	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			09/29/23 19:09	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			09/29/23 19:09	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			09/29/23 19:09	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27160-1

Client Sample ID: LC34-DPT0920-38.0-20230919
Date Collected: 09/19/23 16:15
Date Received: 09/21/23 08:00

Lab Sample ID: 670-27160-8
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			09/29/23 19:09	1
1,2-Dibromo-3-Chloropropane	1.8	U J3	5.0	1.8	ug/L			09/29/23 19:09	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			09/29/23 19:09	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/29/23 19:09	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			09/29/23 19:09	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			09/29/23 19:09	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/29/23 19:09	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/29/23 19:09	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			09/29/23 19:09	1
2-Hexanone	3.2	U	10	3.2	ug/L			09/29/23 19:09	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			09/29/23 19:09	1
Acetone	3.7	U	10	3.7	ug/L			09/29/23 19:09	1
Benzene	0.27	U	1.0	0.27	ug/L			09/29/23 19:09	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			09/29/23 19:09	1
Bromoform	0.59	U	1.0	0.59	ug/L			09/29/23 19:09	1
Bromomethane	3.7	U J3	5.0	3.7	ug/L			09/29/23 19:09	1
Carbon disulfide	**0.45**	**I**	2.0	0.43	ug/L			09/29/23 19:09	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			09/29/23 19:09	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			09/29/23 19:09	1
Chloroethane	4.6	U J3	5.0	4.6	ug/L			09/29/23 19:09	1
Chloroform	0.27	U	1.0	0.27	ug/L			09/29/23 19:09	1
Chloromethane	0.54	U	1.0	0.54	ug/L			09/29/23 19:09	1
cis-1,2-Dichloroethene	**2.3**		1.0	0.25	ug/L			09/29/23 19:09	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			09/29/23 19:09	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			09/29/23 19:09	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			09/29/23 19:09	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			09/29/23 19:09	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			09/29/23 19:09	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			09/29/23 19:09	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			09/29/23 19:09	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			09/29/23 19:09	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			09/29/23 19:09	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			09/29/23 19:09	1
o-Xylene	0.26	U	1.0	0.26	ug/L			09/29/23 19:09	1
Styrene	0.27	U	1.0	0.27	ug/L			09/29/23 19:09	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			09/29/23 19:09	1
Toluene	0.25	U	1.0	0.25	ug/L			09/29/23 19:09	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			09/29/23 19:09	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			09/29/23 19:09	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			09/29/23 19:09	1
Trichlorofluoromethane	0.33	U J3	1.0	0.33	ug/L			09/29/23 19:09	1
Vinyl chloride	**3.0**		1.0	0.40	ug/L			09/29/23 19:09	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			09/29/23 19:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 124*		*09/29/23 19:09*	*1*
4-Bromofluorobenzene (Surr)	*81*		*70 - 130*		*09/29/23 19:09*	*1*
Dibromofluoromethane (Surr)	*106*		*70 - 130*		*09/29/23 19:09*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*09/29/23 19:09*	*1*

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27160-1

Client Sample ID: LC34-DPT0921-008.0-20230920

Date Collected: 09/20/23 08:25
Date Received: 09/21/23 08:00

Lab Sample ID: 670-27160-9

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	11	U	50	11	ug/L			10/02/23 20:20	50
1,1,2,2-Tetrachloroethane	20	U	50	20	ug/L			10/02/23 20:20	50
1,1,2-Trichloro-1,2,2-trifluoroethane	12	U	50	12	ug/L			10/02/23 20:20	50
1,1,2-Trichloroethane	16	U	50	16	ug/L			10/02/23 20:20	50
1,1-Dichloroethane	17	U	50	17	ug/L			10/02/23 20:20	50
1,1-Dichloroethene	17	U	50	17	ug/L			10/02/23 20:20	50
1,2,4-Trichlorobenzene	27	U	250	27	ug/L			10/02/23 20:20	50
1,2-Dibromo-3-Chloropropane	90	U J3	250	90	ug/L			10/02/23 20:20	50
1,2-Dibromoethane (EDB)	17	U	50	17	ug/L			10/02/23 20:20	50
1,2-Dichlorobenzene	16	U	50	16	ug/L			10/02/23 20:20	50
1,2-Dichloroethane	13	U	50	13	ug/L			10/02/23 20:20	50
1,2-Dichloropropane	11	U	50	11	ug/L			10/02/23 20:20	50
1,3-Dichlorobenzene	16	U	50	16	ug/L			10/02/23 20:20	50
1,4-Dichlorobenzene	16	U	50	16	ug/L			10/02/23 20:20	50
2-Butanone (MEK)	320	U	500	320	ug/L			10/02/23 20:20	50
2-Hexanone	160	U	500	160	ug/L			10/02/23 20:20	50
4-Methyl-2-pentanone	140	U	500	140	ug/L			10/02/23 20:20	50
Acetone	190	U	500	190	ug/L			10/02/23 20:20	50
Benzene	14	U	50	14	ug/L			10/02/23 20:20	50
Bromodichloromethane	13	U	50	13	ug/L			10/02/23 20:20	50
Bromoform	**54**		50	30	ug/L			10/02/23 20:20	50
Bromomethane	190	U J3	250	190	ug/L			10/02/23 20:20	50
Carbon disulfide	22	U	100	22	ug/L			10/02/23 20:20	50
Carbon tetrachloride	15	U	50	15	ug/L			10/02/23 20:20	50
Chlorobenzene	7.5	U	50	7.5	ug/L			10/02/23 20:20	50
Chloroethane	230	U J3	250	230	ug/L			10/02/23 20:20	50
Chloroform	14	U	50	14	ug/L			10/02/23 20:20	50
Chloromethane	27	U	50	27	ug/L			10/02/23 20:20	50
cis-1,2-Dichloroethene	**170**		50	13	ug/L			10/02/23 20:20	50
cis-1,3-Dichloropropene	13	U	50	13	ug/L			10/02/23 20:20	50
Cyclohexane	14	U	50	14	ug/L			10/02/23 20:20	50
Dibromochloromethane	20	U	50	20	ug/L			10/02/23 20:20	50
Dichlorodifluoromethane	18	U	50	18	ug/L			10/02/23 20:20	50
Ethylbenzene	10	U	50	10	ug/L			10/02/23 20:20	50
Isopropylbenzene	13	U	50	13	ug/L			10/02/23 20:20	50
m,p-Xylenes	25	U	50	25	ug/L			10/02/23 20:20	50
Methyl acetate	160	U	250	160	ug/L			10/02/23 20:20	50
Methyl tert-butyl ether	41	U	250	41	ug/L			10/02/23 20:20	50
Methylene Chloride	160	U	250	160	ug/L			10/02/23 20:20	50
o-Xylene	13	U	50	13	ug/L			10/02/23 20:20	50
Styrene	14	U	50	14	ug/L			10/02/23 20:20	50
Tetrachloroethene	18	U	50	18	ug/L			10/02/23 20:20	50
Toluene	13	U	50	13	ug/L			10/02/23 20:20	50
trans-1,2-Dichloroethene	17	U	50	17	ug/L			10/02/23 20:20	50
trans-1,3-Dichloropropene	12	U	50	12	ug/L			10/02/23 20:20	50
Trichloroethene	10	U	50	10	ug/L			10/02/23 20:20	50
Trichlorofluoromethane	17	U J3	50	17	ug/L			10/02/23 20:20	50
Vinyl chloride	**30**	**I**	50	20	ug/L			10/02/23 20:20	50
Xylenes, Total	12	U	50	12	ug/L			10/02/23 20:20	50

Client Sample ID: LC34-DPT0921-008.0-20230920

Lab Sample ID: 670-27160-9

Date Collected: 09/20/23 08:25

Matrix: Water

Date Received: 09/21/23 08:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 124*		*10/02/23 20:20*	*50*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*		*10/02/23 20:20*	*50*
Dibromofluoromethane (Surr)	*111*		*70 - 130*		*10/02/23 20:20*	*50*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/02/23 20:20*	*50*

Client Sample ID: LC34-DPT0921-013.0-20230920

Lab Sample ID: 670-27160-10

Date Collected: 09/20/23 08:40

Matrix: Water

Date Received: 09/21/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.42	U	2.0	0.42	ug/L			09/29/23 16:48	2
1,1,2,2-Tetrachloroethane	0.80	U	2.0	0.80	ug/L			09/29/23 16:48	2
1,1,2-Trichloro-1,2,2-trifluoroethane	0.46	U	2.0	0.46	ug/L			09/29/23 16:48	2
1,1,2-Trichloroethane	0.64	U	2.0	0.64	ug/L			09/29/23 16:48	2
1,1-Dichloroethane	0.66	U	2.0	0.66	ug/L			09/29/23 16:48	2
1,1-Dichloroethene	0.66	U	2.0	0.66	ug/L			09/29/23 16:48	2
1,2,4-Trichlorobenzene	1.1	U	10	1.1	ug/L			09/29/23 16:48	2
1,2-Dibromo-3-Chloropropane	3.6	U	10	3.6	ug/L			09/29/23 16:48	2
1,2-Dibromoethane (EDB)	0.66	U	2.0	0.66	ug/L			09/29/23 16:48	2
1,2-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			09/29/23 16:48	2
1,2-Dichloroethane	0.50	U	2.0	0.50	ug/L			09/29/23 16:48	2
1,2-Dichloropropane	0.44	U	2.0	0.44	ug/L			09/29/23 16:48	2
1,3-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			09/29/23 16:48	2
1,4-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			09/29/23 16:48	2
2-Butanone (MEK)	13	U	20	13	ug/L			09/29/23 16:48	2
2-Hexanone	6.4	U	20	6.4	ug/L			09/29/23 16:48	2
4-Methyl-2-pentanone	5.4	U	20	5.4	ug/L			09/29/23 16:48	2
Acetone	7.4	U	20	7.4	ug/L			09/29/23 16:48	2
Benzene	0.54	U	2.0	0.54	ug/L			09/29/23 16:48	2
Bromodichloromethane	0.50	U	2.0	0.50	ug/L			09/29/23 16:48	2
Bromoform	1.2	U	2.0	1.2	ug/L			09/29/23 16:48	2
Bromomethane	7.4	U	10	7.4	ug/L			09/29/23 16:48	2
Carbon disulfide	**1.4**	**I**	4.0	0.86	ug/L			09/29/23 16:48	2
Carbon tetrachloride	0.60	U	2.0	0.60	ug/L			09/29/23 16:48	2
Chlorobenzene	0.30	U	2.0	0.30	ug/L			09/29/23 16:48	2
Chloroethane	9.2	U	10	9.2	ug/L			09/29/23 16:48	2
Chloroform	0.54	U	2.0	0.54	ug/L			09/29/23 16:48	2
Chloromethane	1.1	U	2.0	1.1	ug/L			09/29/23 16:48	2
cis-1,2-Dichloroethene	**30**		2.0	0.50	ug/L			09/29/23 16:48	2
cis-1,3-Dichloropropene	0.52	U	2.0	0.52	ug/L			09/29/23 16:48	2
Cyclohexane	0.56	U	2.0	0.56	ug/L			09/29/23 16:48	2
Dibromochloromethane	0.78	U	2.0	0.78	ug/L			09/29/23 16:48	2
Dichlorodifluoromethane	0.72	U	2.0	0.72	ug/L			09/29/23 16:48	2
Ethylbenzene	0.40	U	2.0	0.40	ug/L			09/29/23 16:48	2
Isopropylbenzene	0.52	U	2.0	0.52	ug/L			09/29/23 16:48	2
m,p-Xylenes	0.98	U	2.0	0.98	ug/L			09/29/23 16:48	2
Methyl acetate	6.4	U	10	6.4	ug/L			09/29/23 16:48	2
Methyl tert-butyl ether	1.6	U	10	1.6	ug/L			09/29/23 16:48	2
Methylene Chloride	6.4	U	10	6.4	ug/L			09/29/23 16:48	2

Client: Tetra Tech, Inc.
Job ID: 670-27160-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT0921-013.0-20230920
Lab Sample ID: 670-27160-10
Date Collected: 09/20/23 08:40
Matrix: Water
Date Received: 09/21/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	0.52	U	2.0	0.52	ug/L			09/29/23 16:48	2
Styrene	0.54	U	2.0	0.54	ug/L			09/29/23 16:48	2
Tetrachloroethene	0.70	U	2.0	0.70	ug/L			09/29/23 16:48	2
Toluene	0.50	U	2.0	0.50	ug/L			09/29/23 16:48	2
trans-1,2-Dichloroethene	0.68	U	2.0	0.68	ug/L			09/29/23 16:48	2
trans-1,3-Dichloropropene	0.46	U	2.0	0.46	ug/L			09/29/23 16:48	2
Trichloroethene	0.40	U	2.0	0.40	ug/L			09/29/23 16:48	2
Trichlorofluoromethane	0.66	U	2.0	0.66	ug/L			09/29/23 16:48	2
Vinyl chloride	**75**		2.0	0.80	ug/L			09/29/23 16:48	2
Xylenes, Total	0.46	U	2.0	0.46	ug/L			09/29/23 16:48	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 124*		*09/29/23 16:48*	*2*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*09/29/23 16:48*	*2*
Dibromofluoromethane (Surr)	*115*		*70 - 130*		*09/29/23 16:48*	*2*
Toluene-d8 (Surr)	*121*		*70 - 130*		*09/29/23 16:48*	*2*

Client Sample ID: LC34-DPT0921-018.0-20230920
Lab Sample ID: 670-27160-11
Date Collected: 09/20/23 08:55
Matrix: Water
Date Received: 09/21/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			09/29/23 17:08	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			09/29/23 17:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			09/29/23 17:08	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			09/29/23 17:08	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			09/29/23 17:08	1
1,1-Dichloroethene	**5.3**		1.0	0.33	ug/L			09/29/23 17:08	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			09/29/23 17:08	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			09/29/23 17:08	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			09/29/23 17:08	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/29/23 17:08	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			09/29/23 17:08	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			09/29/23 17:08	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/29/23 17:08	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/29/23 17:08	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			09/29/23 17:08	1
2-Hexanone	3.2	U	10	3.2	ug/L			09/29/23 17:08	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			09/29/23 17:08	1
Acetone	3.7	U	10	3.7	ug/L			09/29/23 17:08	1
Benzene	0.27	U	1.0	0.27	ug/L			09/29/23 17:08	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			09/29/23 17:08	1
Bromoform	0.59	U	1.0	0.59	ug/L			09/29/23 17:08	1
Bromomethane	3.7	U	5.0	3.7	ug/L			09/29/23 17:08	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			09/29/23 17:08	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			09/29/23 17:08	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			09/29/23 17:08	1
Chloroethane	4.6	U	5.0	4.6	ug/L			09/29/23 17:08	1
Chloroform	0.27	U	1.0	0.27	ug/L			09/29/23 17:08	1

Client Sample ID: LC34-DPT0921-018.0-20230920

Lab Sample ID: 670-27160-11

Date Collected: 09/20/23 08:55

Matrix: Water

Date Received: 09/21/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	0.54	U	1.0	0.54	ug/L			09/29/23 17:08	1
cis-1,2-Dichloroethene	**2300**	**L**	1.0	0.25	ug/L			10/02/23 16:04	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			09/29/23 17:08	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			09/29/23 17:08	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			09/29/23 17:08	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			09/29/23 17:08	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			09/29/23 17:08	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			09/29/23 17:08	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			09/29/23 17:08	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			09/29/23 17:08	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			09/29/23 17:08	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			09/29/23 17:08	1
o-Xylene	0.26	U	1.0	0.26	ug/L			09/29/23 17:08	1
Styrene	0.27	U	1.0	0.27	ug/L			09/29/23 17:08	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			09/29/23 17:08	1
Toluene	0.25	U	1.0	0.25	ug/L			09/29/23 17:08	1
trans-1,2-Dichloroethene	**97**		1.0	0.34	ug/L			09/29/23 17:08	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			09/29/23 17:08	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			09/29/23 17:08	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			09/29/23 17:08	1
Vinyl chloride	**2000**	**L**	1.0	0.40	ug/L			10/02/23 16:04	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			09/29/23 17:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 124*		*09/29/23 17:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 124*		*10/02/23 16:04*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*09/29/23 17:08*	*1*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*		*10/02/23 16:04*	*1*
Dibromofluoromethane (Surr)	*105*		*70 - 130*		*09/29/23 17:08*	*1*
Dibromofluoromethane (Surr)	*108*		*70 - 130*		*10/02/23 16:04*	*1*
Toluene-d8 (Surr)	*120*		*70 - 130*		*09/29/23 17:08*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/02/23 16:04*	*1*

Client Sample ID: LC34-DPT0921-025.0-20230920

Lab Sample ID: 670-27160-12

Date Collected: 09/20/23 09:10

Matrix: Water

Date Received: 09/21/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			09/29/23 17:28	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			09/29/23 17:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			09/29/23 17:28	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			09/29/23 17:28	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			09/29/23 17:28	1
1,1-Dichloroethene	**13**		1.0	0.33	ug/L			09/29/23 17:28	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			09/29/23 17:28	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			09/29/23 17:28	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			09/29/23 17:28	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/29/23 17:28	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			09/29/23 17:28	1

Client Sample ID: LC34-DPT0921-025.0-20230920
Date Collected: 09/20/23 09:10
Date Received: 09/21/23 08:00

Lab Sample ID: 670-27160-12
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			09/29/23 17:28	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/29/23 17:28	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/29/23 17:28	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			09/29/23 17:28	1
2-Hexanone	3.2	U	10	3.2	ug/L			09/29/23 17:28	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			09/29/23 17:28	1
Acetone	3.7	U	10	3.7	ug/L			09/29/23 17:28	1
Benzene	**0.32**	**I**	1.0	0.27	ug/L			09/29/23 17:28	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			09/29/23 17:28	1
Bromoform	0.59	U	1.0	0.59	ug/L			09/29/23 17:28	1
Bromomethane	3.7	U	5.0	3.7	ug/L			09/29/23 17:28	1
Carbon disulfide	**0.50**	**I**	2.0	0.43	ug/L			09/29/23 17:28	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			09/29/23 17:28	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			09/29/23 17:28	1
Chloroethane	4.6	U	5.0	4.6	ug/L			09/29/23 17:28	1
Chloroform	0.27	U	1.0	0.27	ug/L			09/29/23 17:28	1
Chloromethane	0.54	U	1.0	0.54	ug/L			09/29/23 17:28	1
cis-1,2-Dichloroethene	**3700**	**L**	1.0	0.25	ug/L			10/02/23 16:27	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			09/29/23 17:28	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			09/29/23 17:28	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			09/29/23 17:28	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			09/29/23 17:28	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			09/29/23 17:28	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			09/29/23 17:28	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			09/29/23 17:28	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			09/29/23 17:28	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			09/29/23 17:28	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			09/29/23 17:28	1
o-Xylene	0.26	U	1.0	0.26	ug/L			09/29/23 17:28	1
Styrene	0.27	U	1.0	0.27	ug/L			09/29/23 17:28	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			09/29/23 17:28	1
Toluene	0.25	U	1.0	0.25	ug/L			09/29/23 17:28	1
trans-1,2-Dichloroethene	**110**		1.0	0.34	ug/L			09/29/23 17:28	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			09/29/23 17:28	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			09/29/23 17:28	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			09/29/23 17:28	1
Vinyl chloride	**1900**	**L**	1.0	0.40	ug/L			10/02/23 16:27	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			09/29/23 17:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*60 - 124*		*09/29/23 17:28*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 124*		*10/02/23 16:27*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*09/29/23 17:28*	*1*
4-Bromofluorobenzene (Surr)	*81*		*70 - 130*		*10/02/23 16:27*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*09/29/23 17:28*	*1*
Dibromofluoromethane (Surr)	*105*		*70 - 130*		*10/02/23 16:27*	*1*
Toluene-d8 (Surr)	*119*		*70 - 130*		*09/29/23 17:28*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/02/23 16:27*	*1*

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27160-1

Client Sample ID: LC34-DPT0921-034.0-20230920
Date Collected: 09/20/23 09:25
Date Received: 09/21/23 08:00

Lab Sample ID: 670-27160-13
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			09/29/23 17:48	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			09/29/23 17:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			09/29/23 17:48	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			09/29/23 17:48	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			09/29/23 17:48	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			09/29/23 17:48	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			09/29/23 17:48	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			09/29/23 17:48	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			09/29/23 17:48	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/29/23 17:48	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			09/29/23 17:48	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			09/29/23 17:48	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/29/23 17:48	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/29/23 17:48	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			09/29/23 17:48	1
2-Hexanone	3.2	U	10	3.2	ug/L			09/29/23 17:48	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			09/29/23 17:48	1
Acetone	3.7	U	10	3.7	ug/L			09/29/23 17:48	1
Benzene	0.27	U	1.0	0.27	ug/L			09/29/23 17:48	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			09/29/23 17:48	1
Bromoform	0.59	U	1.0	0.59	ug/L			09/29/23 17:48	1
Bromomethane	3.7	U	5.0	3.7	ug/L			09/29/23 17:48	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/02/23 16:50	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			09/29/23 17:48	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			09/29/23 17:48	1
Chloroethane	4.6	U	5.0	4.6	ug/L			09/29/23 17:48	1
Chloroform	0.27	U	1.0	0.27	ug/L			09/29/23 17:48	1
Chloromethane	0.54	U	1.0	0.54	ug/L			09/29/23 17:48	1
cis-1,2-Dichloroethene	**20**		1.0	0.25	ug/L			10/02/23 16:50	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			09/29/23 17:48	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			09/29/23 17:48	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			09/29/23 17:48	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			09/29/23 17:48	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			09/29/23 17:48	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			09/29/23 17:48	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			09/29/23 17:48	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			09/29/23 17:48	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			09/29/23 17:48	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			09/29/23 17:48	1
o-Xylene	0.26	U	1.0	0.26	ug/L			09/29/23 17:48	1
Styrene	0.27	U	1.0	0.27	ug/L			09/29/23 17:48	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			09/29/23 17:48	1
Toluene	0.25	U	1.0	0.25	ug/L			09/29/23 17:48	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/02/23 16:50	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			09/29/23 17:48	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			09/29/23 17:48	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			09/29/23 17:48	1
Vinyl chloride	**1.6**		1.0	0.40	ug/L			10/02/23 16:50	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			09/29/23 17:48	1

Client Sample ID: LC34-DPT0921-034.0-20230920

Lab Sample ID: 670-27160-13

Date Collected: 09/20/23 09:25

Matrix: Water

Date Received: 09/21/23 08:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*60 - 124*		*09/29/23 17:48*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*60 - 124*		*10/02/23 16:50*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*09/29/23 17:48*	*1*
4-Bromofluorobenzene (Surr)	*79*		*70 - 130*		*10/02/23 16:50*	*1*
Dibromofluoromethane (Surr)	*116*		*70 - 130*		*09/29/23 17:48*	*1*
Dibromofluoromethane (Surr)	*114*		*70 - 130*		*10/02/23 16:50*	*1*
Toluene-d8 (Surr)	*120*		*70 - 130*		*09/29/23 17:48*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/02/23 16:50*	*1*

Client Sample ID: LC34-DPT0921-038.0-20230920

Lab Sample ID: 670-27160-14

Date Collected: 09/20/23 09:45

Matrix: Water

Date Received: 09/21/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			09/29/23 18:08	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			09/29/23 18:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			09/29/23 18:08	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			09/29/23 18:08	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			09/29/23 18:08	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			09/29/23 18:08	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			09/29/23 18:08	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			09/29/23 18:08	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			09/29/23 18:08	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/29/23 18:08	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			09/29/23 18:08	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			09/29/23 18:08	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/29/23 18:08	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/29/23 18:08	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			09/29/23 18:08	1
2-Hexanone	3.2	U	10	3.2	ug/L			09/29/23 18:08	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			09/29/23 18:08	1
Acetone	3.7	U	10	3.7	ug/L			09/29/23 18:08	1
Benzene	0.27	U	1.0	0.27	ug/L			09/29/23 18:08	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			09/29/23 18:08	1
Bromoform	0.59	U	1.0	0.59	ug/L			09/29/23 18:08	1
Bromomethane	3.7	U J3	5.0	3.7	ug/L			10/02/23 17:13	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/02/23 17:13	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			09/29/23 18:08	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			09/29/23 18:08	1
Chloroethane	4.6	U	5.0	4.6	ug/L			09/29/23 18:08	1
Chloroform	0.27	U	1.0	0.27	ug/L			09/29/23 18:08	1
Chloromethane	0.54	U	1.0	0.54	ug/L			09/29/23 18:08	1
cis-1,2-Dichloroethene	**1.9**		1.0	0.25	ug/L			10/02/23 17:13	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			09/29/23 18:08	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			09/29/23 18:08	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			09/29/23 18:08	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			09/29/23 18:08	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			09/29/23 18:08	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			09/29/23 18:08	1

Client Sample ID: LC34-DPT0921-038.0-20230920

Lab Sample ID: 670-27160-14

Date Collected: 09/20/23 09:45

Matrix: Water

Date Received: 09/21/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			09/29/23 18:08	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			09/29/23 18:08	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			09/29/23 18:08	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			09/29/23 18:08	1
o-Xylene	0.26	U	1.0	0.26	ug/L			09/29/23 18:08	1
Styrene	0.27	U	1.0	0.27	ug/L			09/29/23 18:08	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			09/29/23 18:08	1
Toluene	0.25	U	1.0	0.25	ug/L			09/29/23 18:08	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			09/29/23 18:08	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			09/29/23 18:08	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			09/29/23 18:08	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			09/29/23 18:08	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/02/23 17:13	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			09/29/23 18:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*60 - 124*		*09/29/23 18:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 124*		*10/02/23 17:13*	*1*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*09/29/23 18:08*	*1*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*		*10/02/23 17:13*	*1*
Dibromofluoromethane (Surr)	*118*		*70 - 130*		*09/29/23 18:08*	*1*
Dibromofluoromethane (Surr)	*111*		*70 - 130*		*10/02/23 17:13*	*1*
Toluene-d8 (Surr)	*121*		*70 - 130*		*09/29/23 18:08*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/02/23 17:13*	*1*

Client Sample ID: LC34-DPT0922-008.0-20230920

Lab Sample ID: 670-27160-15

Date Collected: 09/20/23 10:15

Matrix: Water

Date Received: 09/21/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			09/29/23 18:28	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			09/29/23 18:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			09/29/23 18:28	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			09/29/23 18:28	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			09/29/23 18:28	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			09/29/23 18:28	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			09/29/23 18:28	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			09/29/23 18:28	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			09/29/23 18:28	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/29/23 18:28	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			09/29/23 18:28	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			09/29/23 18:28	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/29/23 18:28	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/29/23 18:28	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			09/29/23 18:28	1
2-Hexanone	3.2	U	10	3.2	ug/L			09/29/23 18:28	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			09/29/23 18:28	1
Acetone	3.7	U	10	3.7	ug/L			09/29/23 18:28	1
Benzene	0.27	U	1.0	0.27	ug/L			09/29/23 18:28	1

Client Sample ID: LC34-DPT0922-008.0-20230920

Lab Sample ID: 670-27160-15

Date Collected: 09/20/23 10:15

Matrix: Water

Date Received: 09/21/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			09/29/23 18:28	1
Bromoform	0.59	U	1.0	0.59	ug/L			09/29/23 18:28	1
Bromomethane	3.7	U	5.0	3.7	ug/L			09/29/23 18:28	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			09/29/23 18:28	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			09/29/23 18:28	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			09/29/23 18:28	1
Chloroethane	4.6	U	5.0	4.6	ug/L			09/29/23 18:28	1
Chloroform	0.27	U	1.0	0.27	ug/L			09/29/23 18:28	1
Chloromethane	0.54	U	1.0	0.54	ug/L			09/29/23 18:28	1
cis-1,2-Dichloroethene	**0.84**	**I**	1.0	0.25	ug/L			10/02/23 17:37	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			09/29/23 18:28	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			09/29/23 18:28	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			09/29/23 18:28	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			09/29/23 18:28	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			09/29/23 18:28	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			09/29/23 18:28	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			09/29/23 18:28	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			09/29/23 18:28	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			09/29/23 18:28	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			09/29/23 18:28	1
o-Xylene	0.26	U	1.0	0.26	ug/L			09/29/23 18:28	1
Styrene	0.27	U	1.0	0.27	ug/L			09/29/23 18:28	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			09/29/23 18:28	1
Toluene	0.25	U	1.0	0.25	ug/L			09/29/23 18:28	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			09/29/23 18:28	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			09/29/23 18:28	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			09/29/23 18:28	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			09/29/23 18:28	1
Vinyl chloride	**0.59**	**I**	1.0	0.40	ug/L			10/02/23 17:37	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			09/29/23 18:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 124*		*09/29/23 18:28*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 124*		*10/02/23 17:37*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*09/29/23 18:28*	*1*
4-Bromofluorobenzene (Surr)	*81*		*70 - 130*		*10/02/23 17:37*	*1*
Dibromofluoromethane (Surr)	*116*		*70 - 130*		*09/29/23 18:28*	*1*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*10/02/23 17:37*	*1*
Toluene-d8 (Surr)	*126*		*70 - 130*		*09/29/23 18:28*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/02/23 17:37*	*1*

Client Sample ID: LC34-DPT0922-013.0-20230920

Lab Sample ID: 670-27160-16

Date Collected: 09/20/23 10:30

Matrix: Water

Date Received: 09/21/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	5.0	1.1	ug/L			10/02/23 20:44	5
1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	ug/L			10/02/23 20:44	5
1,1,2-Trichloro-1,2,2-trifluoroethane	1.2	U	5.0	1.2	ug/L			10/02/23 20:44	5

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27160-1

Client Sample ID: LC34-DPT0922-013.0-20230920
Date Collected: 09/20/23 10:30
Date Received: 09/21/23 08:00

Lab Sample ID: 670-27160-16
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	1.6	U	5.0	1.6	ug/L			10/02/23 20:44	5
1,1-Dichloroethane	1.7	U	5.0	1.7	ug/L			10/02/23 20:44	5
1,1-Dichloroethene	1.7	U	5.0	1.7	ug/L			10/02/23 20:44	5
1,2,4-Trichlorobenzene	2.7	U	25	2.7	ug/L			10/02/23 20:44	5
1,2-Dibromo-3-Chloropropane	9.0	U J3	25	9.0	ug/L			10/02/23 20:44	5
1,2-Dibromoethane (EDB)	1.7	U	5.0	1.7	ug/L			10/02/23 20:44	5
1,2-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/02/23 20:44	5
1,2-Dichloroethane	1.3	U	5.0	1.3	ug/L			10/02/23 20:44	5
1,2-Dichloropropane	1.1	U	5.0	1.1	ug/L			10/02/23 20:44	5
1,3-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/02/23 20:44	5
1,4-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/02/23 20:44	5
2-Butanone (MEK)	32	U	50	32	ug/L			10/02/23 20:44	5
2-Hexanone	16	U	50	16	ug/L			10/02/23 20:44	5
4-Methyl-2-pentanone	14	U	50	14	ug/L			10/02/23 20:44	5
Acetone	19	U	50	19	ug/L			10/02/23 20:44	5
Benzene	1.4	U	5.0	1.4	ug/L			10/02/23 20:44	5
Bromodichloromethane	1.3	U	5.0	1.3	ug/L			10/02/23 20:44	5
Bromoform	3.0	U	5.0	3.0	ug/L			10/02/23 20:44	5
Bromomethane	19	U J3	25	19	ug/L			10/02/23 20:44	5
Carbon disulfide	2.2	U	10	2.2	ug/L			10/02/23 20:44	5
Carbon tetrachloride	1.5	U	5.0	1.5	ug/L			10/02/23 20:44	5
Chlorobenzene	0.75	U	5.0	0.75	ug/L			10/02/23 20:44	5
Chloroethane	23	U J3	25	23	ug/L			10/02/23 20:44	5
Chloroform	1.4	U	5.0	1.4	ug/L			10/02/23 20:44	5
Chloromethane	2.7	U	5.0	2.7	ug/L			10/02/23 20:44	5
cis-1,2-Dichloroethene	**17**		5.0	1.3	ug/L			10/02/23 20:44	5
cis-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			10/02/23 20:44	5
Cyclohexane	1.4	U	5.0	1.4	ug/L			10/02/23 20:44	5
Dibromochloromethane	2.0	U	5.0	2.0	ug/L			10/02/23 20:44	5
Dichlorodifluoromethane	1.8	U	5.0	1.8	ug/L			10/02/23 20:44	5
Ethylbenzene	1.0	U	5.0	1.0	ug/L			10/02/23 20:44	5
Isopropylbenzene	1.3	U	5.0	1.3	ug/L			10/02/23 20:44	5
m,p-Xylenes	2.5	U	5.0	2.5	ug/L			10/02/23 20:44	5
Methyl acetate	16	U	25	16	ug/L			10/02/23 20:44	5
Methyl tert-butyl ether	4.1	U	25	4.1	ug/L			10/02/23 20:44	5
Methylene Chloride	16	U	25	16	ug/L			10/02/23 20:44	5
o-Xylene	1.3	U	5.0	1.3	ug/L			10/02/23 20:44	5
Styrene	1.4	U	5.0	1.4	ug/L			10/02/23 20:44	5
Tetrachloroethene	1.8	U	5.0	1.8	ug/L			10/02/23 20:44	5
Toluene	1.3	U	5.0	1.3	ug/L			10/02/23 20:44	5
trans-1,2-Dichloroethene	1.7	U	5.0	1.7	ug/L			10/02/23 20:44	5
trans-1,3-Dichloropropene	1.2	U	5.0	1.2	ug/L			10/02/23 20:44	5
Trichloroethene	1.0	U	5.0	1.0	ug/L			10/02/23 20:44	5
Trichlorofluoromethane	1.7	U J3	5.0	1.7	ug/L			10/02/23 20:44	5
Vinyl chloride	**35**		5.0	2.0	ug/L			10/02/23 20:44	5
Xylenes, Total	1.2	U	5.0	1.2	ug/L			10/02/23 20:44	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 124*		*10/02/23 20:44*	*5*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*		*10/02/23 20:44*	*5*

Client Sample ID: LC34-DPT0922-013.0-20230920

Lab Sample ID: 670-27160-16

Date Collected: 09/20/23 10:30

Matrix: Water

Date Received: 09/21/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*108*		*70 - 130*		*10/02/23 20:44*	*5*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/02/23 20:44*	*5*

Client Sample ID: LC34-DPT0922-018.0-20230920

Lab Sample ID: 670-27160-17

Date Collected: 09/20/23 10:45

Matrix: Water

Date Received: 09/21/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			09/29/23 19:11	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			09/29/23 19:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			09/29/23 19:11	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			09/29/23 19:11	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			09/29/23 19:11	1
1,1-Dichloroethene	**2.6**		1.0	0.33	ug/L			09/29/23 19:11	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			09/29/23 19:11	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			09/29/23 19:11	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			09/29/23 19:11	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/29/23 19:11	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			09/29/23 19:11	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			09/29/23 19:11	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/29/23 19:11	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/29/23 19:11	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			09/29/23 19:11	1
2-Hexanone	3.2	U	10	3.2	ug/L			09/29/23 19:11	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			09/29/23 19:11	1
Acetone	3.7	U	10	3.7	ug/L			09/29/23 19:11	1
Benzene	0.27	U	1.0	0.27	ug/L			09/29/23 19:11	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			09/29/23 19:11	1
Bromoform	0.59	U	1.0	0.59	ug/L			09/29/23 19:11	1
Bromomethane	3.7	U	5.0	3.7	ug/L			09/29/23 19:11	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			09/29/23 19:11	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			09/29/23 19:11	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			09/29/23 19:11	1
Chloroethane	4.6	U	5.0	4.6	ug/L			09/29/23 19:11	1
Chloroform	0.27	U	1.0	0.27	ug/L			09/29/23 19:11	1
Chloromethane	0.54	U	1.0	0.54	ug/L			09/29/23 19:11	1
cis-1,2-Dichloroethene	**2200**	**L**	1.0	0.25	ug/L			10/02/23 19:57	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			09/29/23 19:11	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			09/29/23 19:11	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			09/29/23 19:11	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			09/29/23 19:11	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			09/29/23 19:11	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			09/29/23 19:11	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			09/29/23 19:11	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			09/29/23 19:11	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			09/29/23 19:11	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			09/29/23 19:11	1
o-Xylene	0.26	U	1.0	0.26	ug/L			09/29/23 19:11	1

Client Sample ID: LC34-DPT0922-018.0-20230920

Lab Sample ID: 670-27160-17
Date Collected: 09/20/23 10:45
Matrix: Water
Date Received: 09/21/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.27	U	1.0	0.27	ug/L			09/29/23 19:11	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			09/29/23 19:11	1
Toluene	0.25	U	1.0	0.25	ug/L			09/29/23 19:11	1
trans-1,2-Dichloroethene	**39**		1.0	0.34	ug/L			09/29/23 19:11	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			09/29/23 19:11	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			09/29/23 19:11	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			09/29/23 19:11	1
Vinyl chloride	**1200**	**L**	1.0	0.40	ug/L			10/02/23 19:57	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			09/29/23 19:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*60 - 124*		*09/29/23 19:11*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 124*		*10/02/23 19:57*	*1*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*09/29/23 19:11*	*1*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*		*10/02/23 19:57*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*09/29/23 19:11*	*1*
Dibromofluoromethane (Surr)	*110*		*70 - 130*		*10/02/23 19:57*	*1*
Toluene-d8 (Surr)	*116*		*70 - 130*		*09/29/23 19:11*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/02/23 19:57*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**2700**	**Q**	25	6.3	ug/L			10/04/23 20:12	25
Vinyl chloride	**3300**	**Q**	25	10	ug/L			10/04/23 20:12	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*60 - 124*		*10/04/23 20:12*	*25*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*10/04/23 20:12*	*25*
Dibromofluoromethane (Surr)	*116*		*70 - 130*		*10/04/23 20:12*	*25*
Toluene-d8 (Surr)	*120*		*70 - 130*		*10/04/23 20:12*	*25*

Client Sample ID: LC34-DPT0922-025.0-20230920

Lab Sample ID: 670-27160-18
Date Collected: 09/20/23 11:00
Matrix: Water
Date Received: 09/21/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			09/29/23 19:31	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			09/29/23 19:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			09/29/23 19:31	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			09/29/23 19:31	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			09/29/23 19:31	1
1,1-Dichloroethene	**2.4**		1.0	0.33	ug/L			09/29/23 19:31	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			09/29/23 19:31	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			09/29/23 19:31	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			09/29/23 19:31	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/29/23 19:31	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			09/29/23 19:31	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			09/29/23 19:31	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/29/23 19:31	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/29/23 19:31	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27160-1

Client Sample ID: LC34-DPT0922-025.0-20230920
Date Collected: 09/20/23 11:00
Date Received: 09/21/23 08:00

Lab Sample ID: 670-27160-18
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			09/29/23 19:31	1
2-Hexanone	3.2	U	10	3.2	ug/L			09/29/23 19:31	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			09/29/23 19:31	1
Acetone	3.7	U	10	3.7	ug/L			09/29/23 19:31	1
Benzene	0.27	U	1.0	0.27	ug/L			09/29/23 19:31	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			09/29/23 19:31	1
Bromoform	0.59	U	1.0	0.59	ug/L			09/29/23 19:31	1
Bromomethane	3.7	U	5.0	3.7	ug/L			09/29/23 19:31	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			09/29/23 19:31	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			09/29/23 19:31	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			09/29/23 19:31	1
Chloroethane	4.6	U	5.0	4.6	ug/L			09/29/23 19:31	1
Chloroform	0.27	U	1.0	0.27	ug/L			09/29/23 19:31	1
Chloromethane	0.54	U	1.0	0.54	ug/L			09/29/23 19:31	1
cis-1,2-Dichloroethene	**2300**	**L**	1.0	0.25	ug/L			10/02/23 18:00	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			09/29/23 19:31	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			09/29/23 19:31	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			09/29/23 19:31	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			09/29/23 19:31	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			09/29/23 19:31	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			09/29/23 19:31	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			09/29/23 19:31	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			09/29/23 19:31	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			09/29/23 19:31	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			09/29/23 19:31	1
o-Xylene	0.26	U	1.0	0.26	ug/L			09/29/23 19:31	1
Styrene	0.27	U	1.0	0.27	ug/L			09/29/23 19:31	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			09/29/23 19:31	1
Toluene	0.25	U	1.0	0.25	ug/L			09/29/23 19:31	1
trans-1,2-Dichloroethene	**28**		1.0	0.34	ug/L			09/29/23 19:31	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			09/29/23 19:31	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			09/29/23 19:31	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			09/29/23 19:31	1
Vinyl chloride	**1100**	**L**	1.0	0.40	ug/L			10/02/23 18:00	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			09/29/23 19:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*60 - 124*		*09/29/23 19:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 124*		*10/02/23 18:00*	*1*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*09/29/23 19:31*	*1*
4-Bromofluorobenzene (Surr)	*81*		*70 - 130*		*10/02/23 18:00*	*1*
Dibromofluoromethane (Surr)	*107*		*70 - 130*		*09/29/23 19:31*	*1*
Dibromofluoromethane (Surr)	*107*		*70 - 130*		*10/02/23 18:00*	*1*
Toluene-d8 (Surr)	*119*		*70 - 130*		*09/29/23 19:31*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/02/23 18:00*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**2200**	**Q**	25	6.3	ug/L			10/04/23 19:27	25
Vinyl chloride	**860**	**Q**	25	10	ug/L			10/04/23 19:27	25

Client Sample ID: LC34-DPT0922-025.0-20230920

Lab Sample ID: 670-27160-18

Date Collected: 09/20/23 11:00

Matrix: Water

Date Received: 09/21/23 08:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*60 - 124*		*10/04/23 19:27*	*25*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*10/04/23 19:27*	*25*
Dibromofluoromethane (Surr)	*115*		*70 - 130*		*10/04/23 19:27*	*25*
Toluene-d8 (Surr)	*118*		*70 - 130*		*10/04/23 19:27*	*25*

Client Sample ID: LC34-DPT0922-034.0-20230920

Lab Sample ID: 670-27160-19

Date Collected: 09/20/23 11:15

Matrix: Water

Date Received: 09/21/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			09/29/23 19:51	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			09/29/23 19:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			09/29/23 19:51	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			09/29/23 19:51	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			09/29/23 19:51	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			09/29/23 19:51	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			09/29/23 19:51	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			09/29/23 19:51	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			09/29/23 19:51	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/29/23 19:51	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			09/29/23 19:51	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			09/29/23 19:51	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/29/23 19:51	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/29/23 19:51	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			09/29/23 19:51	1
2-Hexanone	3.2	U	10	3.2	ug/L			09/29/23 19:51	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			09/29/23 19:51	1
Acetone	3.7	U	10	3.7	ug/L			09/29/23 19:51	1
Benzene	0.27	U	1.0	0.27	ug/L			09/29/23 19:51	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			09/29/23 19:51	1
Bromoform	0.59	U	1.0	0.59	ug/L			09/29/23 19:51	1
Bromomethane	3.7	U	5.0	3.7	ug/L			09/29/23 19:51	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			09/29/23 19:51	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			09/29/23 19:51	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			09/29/23 19:51	1
Chloroethane	4.6	U	5.0	4.6	ug/L			09/29/23 19:51	1
Chloroform	0.27	U	1.0	0.27	ug/L			09/29/23 19:51	1
Chloromethane	0.54	U	1.0	0.54	ug/L			09/29/23 19:51	1
cis-1,2-Dichloroethene	**77**		1.0	0.25	ug/L			10/02/23 18:24	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			09/29/23 19:51	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			09/29/23 19:51	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			09/29/23 19:51	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			09/29/23 19:51	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			09/29/23 19:51	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			09/29/23 19:51	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			09/29/23 19:51	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			09/29/23 19:51	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			09/29/23 19:51	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			09/29/23 19:51	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27160-1

Client Sample ID: LC34-DPT0922-034.0-20230920

Lab Sample ID: 670-27160-19

Date Collected: 09/20/23 11:15
Matrix: Water
Date Received: 09/21/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	0.26	U	1.0	0.26	ug/L			09/29/23 19:51	1
Styrene	0.27	U	1.0	0.27	ug/L			09/29/23 19:51	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			09/29/23 19:51	1
Toluene	0.25	U	1.0	0.25	ug/L			09/29/23 19:51	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			09/29/23 19:51	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			09/29/23 19:51	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			09/29/23 19:51	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			09/29/23 19:51	1
Vinyl chloride	**10**		1.0	0.40	ug/L			10/02/23 18:24	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			09/29/23 19:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*60 - 124*		*09/29/23 19:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 124*		*10/02/23 18:24*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*09/29/23 19:51*	*1*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*		*10/02/23 18:24*	*1*
Dibromofluoromethane (Surr)	*117*		*70 - 130*		*09/29/23 19:51*	*1*
Dibromofluoromethane (Surr)	*108*		*70 - 130*		*10/02/23 18:24*	*1*
Toluene-d8 (Surr)	*122*		*70 - 130*		*09/29/23 19:51*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/02/23 18:24*	*1*

Client Sample ID: LC34-DPT0922-038.0-20230920

Lab Sample ID: 670-27160-20

Date Collected: 09/20/23 11:35
Matrix: Water
Date Received: 09/21/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			09/29/23 20:11	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			09/29/23 20:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			09/29/23 20:11	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			09/29/23 20:11	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			09/29/23 20:11	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			09/29/23 20:11	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			09/29/23 20:11	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			09/29/23 20:11	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			09/29/23 20:11	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/29/23 20:11	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			09/29/23 20:11	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			09/29/23 20:11	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/29/23 20:11	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/29/23 20:11	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			09/29/23 20:11	1
2-Hexanone	3.2	U	10	3.2	ug/L			09/29/23 20:11	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			09/29/23 20:11	1
Acetone	3.7	U	10	3.7	ug/L			09/29/23 20:11	1
Benzene	0.27	U	1.0	0.27	ug/L			09/29/23 20:11	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			09/29/23 20:11	1
Bromoform	0.59	U	1.0	0.59	ug/L			09/29/23 20:11	1
Bromomethane	3.7	U	5.0	3.7	ug/L			09/29/23 20:11	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			09/29/23 20:11	1

Client Sample ID: LC34-DPT0922-038.0-20230920

Lab Sample ID: 670-27160-20

Date Collected: 09/20/23 11:35

Matrix: Water

Date Received: 09/21/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			09/29/23 20:11	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			09/29/23 20:11	1
Chloroethane	4.6	U	5.0	4.6	ug/L			09/29/23 20:11	1
Chloroform	0.27	U	1.0	0.27	ug/L			09/29/23 20:11	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/02/23 18:47	1
cis-1,2-Dichloroethene	**1.5**		1.0	0.25	ug/L			10/02/23 18:47	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			09/29/23 20:11	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			09/29/23 20:11	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			09/29/23 20:11	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			09/29/23 20:11	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			09/29/23 20:11	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			09/29/23 20:11	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			09/29/23 20:11	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			09/29/23 20:11	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			09/29/23 20:11	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			09/29/23 20:11	1
o-Xylene	0.26	U	1.0	0.26	ug/L			09/29/23 20:11	1
Styrene	0.27	U	1.0	0.27	ug/L			09/29/23 20:11	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			09/29/23 20:11	1
Toluene	0.25	U	1.0	0.25	ug/L			09/29/23 20:11	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			09/29/23 20:11	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			09/29/23 20:11	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			09/29/23 20:11	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			09/29/23 20:11	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			09/29/23 20:11	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			09/29/23 20:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*60 - 124*		*09/29/23 20:11*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*60 - 124*		*10/02/23 18:47*	*1*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*09/29/23 20:11*	*1*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*		*10/02/23 18:47*	*1*
Dibromofluoromethane (Surr)	*119*		*70 - 130*		*09/29/23 20:11*	*1*
Dibromofluoromethane (Surr)	*108*		*70 - 130*		*10/02/23 18:47*	*1*
Toluene-d8 (Surr)	*118*		*70 - 130*		*09/29/23 20:11*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/02/23 18:47*	*1*

Client Sample ID: LC34-DPT0923-008.0-20230920

Lab Sample ID: 670-27160-21

Date Collected: 09/20/23 12:45

Matrix: Water

Date Received: 09/21/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.42	U	2.0	0.42	ug/L			10/02/23 21:07	2
1,1,2,2-Tetrachloroethane	0.80	U	2.0	0.80	ug/L			10/02/23 21:07	2
1,1,2-Trichloro-1,2,2-trifluoroethane	0.46	U	2.0	0.46	ug/L			10/02/23 21:07	2
1,1,2-Trichloroethane	0.64	U	2.0	0.64	ug/L			10/02/23 21:07	2
1,1-Dichloroethane	0.66	U	2.0	0.66	ug/L			10/02/23 21:07	2
1,1-Dichloroethene	0.66	U	2.0	0.66	ug/L			10/02/23 21:07	2
1,2,4-Trichlorobenzene	1.1	U	10	1.1	ug/L			10/02/23 21:07	2

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27160-1

Client Sample ID: LC34-DPT0923-008.0-20230920
Date Collected: 09/20/23 12:45
Date Received: 09/21/23 08:00

Lab Sample ID: 670-27160-21
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	3.6	U J3	10	3.6	ug/L			10/02/23 21:07	2
1,2-Dibromoethane (EDB)	0.66	U	2.0	0.66	ug/L			10/02/23 21:07	2
1,2-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/02/23 21:07	2
1,2-Dichloroethane	0.50	U	2.0	0.50	ug/L			10/02/23 21:07	2
1,2-Dichloropropane	0.44	U	2.0	0.44	ug/L			10/02/23 21:07	2
1,3-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/02/23 21:07	2
1,4-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/02/23 21:07	2
2-Butanone (MEK)	13	U	20	13	ug/L			10/02/23 21:07	2
2-Hexanone	6.4	U	20	6.4	ug/L			10/02/23 21:07	2
4-Methyl-2-pentanone	5.4	U	20	5.4	ug/L			10/02/23 21:07	2
Acetone	7.4	U	20	7.4	ug/L			10/02/23 21:07	2
Benzene	0.54	U	2.0	0.54	ug/L			10/02/23 21:07	2
Bromodichloromethane	0.50	U	2.0	0.50	ug/L			10/02/23 21:07	2
Bromoform	1.2	U	2.0	1.2	ug/L			10/02/23 21:07	2
Bromomethane	7.4	U J3	10	7.4	ug/L			10/02/23 21:07	2
Carbon disulfide	0.86	U	4.0	0.86	ug/L			10/02/23 21:07	2
Carbon tetrachloride	0.60	U	2.0	0.60	ug/L			10/02/23 21:07	2
Chlorobenzene	0.30	U	2.0	0.30	ug/L			10/02/23 21:07	2
Chloroethane	9.2	U J3	10	9.2	ug/L			10/02/23 21:07	2
Chloroform	0.54	U	2.0	0.54	ug/L			10/02/23 21:07	2
Chloromethane	1.1	U	2.0	1.1	ug/L			10/02/23 21:07	2
cis-1,2-Dichloroethene	**1.4**	**I**	2.0	0.50	ug/L			10/02/23 21:07	2
cis-1,3-Dichloropropene	0.52	U	2.0	0.52	ug/L			10/02/23 21:07	2
Cyclohexane	0.56	U	2.0	0.56	ug/L			10/02/23 21:07	2
Dibromochloromethane	0.78	U	2.0	0.78	ug/L			10/02/23 21:07	2
Dichlorodifluoromethane	0.72	U	2.0	0.72	ug/L			10/02/23 21:07	2
Ethylbenzene	0.40	U	2.0	0.40	ug/L			10/02/23 21:07	2
Isopropylbenzene	0.52	U	2.0	0.52	ug/L			10/02/23 21:07	2
m,p-Xylenes	0.98	U	2.0	0.98	ug/L			10/02/23 21:07	2
Methyl acetate	6.4	U	10	6.4	ug/L			10/02/23 21:07	2
Methyl tert-butyl ether	1.6	U	10	1.6	ug/L			10/02/23 21:07	2
Methylene Chloride	6.4	U	10	6.4	ug/L			10/02/23 21:07	2
o-Xylene	0.52	U	2.0	0.52	ug/L			10/02/23 21:07	2
Styrene	0.54	U	2.0	0.54	ug/L			10/02/23 21:07	2
Tetrachloroethene	0.70	U	2.0	0.70	ug/L			10/02/23 21:07	2
Toluene	0.50	U	2.0	0.50	ug/L			10/02/23 21:07	2
trans-1,2-Dichloroethene	0.68	U	2.0	0.68	ug/L			10/02/23 21:07	2
trans-1,3-Dichloropropene	0.46	U	2.0	0.46	ug/L			10/02/23 21:07	2
Trichloroethene	0.40	U	2.0	0.40	ug/L			10/02/23 21:07	2
Trichlorofluoromethane	0.66	U J3	2.0	0.66	ug/L			10/02/23 21:07	2
Vinyl chloride	0.80	U	2.0	0.80	ug/L			10/02/23 21:07	2
Xylenes, Total	0.46	U	2.0	0.46	ug/L			10/02/23 21:07	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 124*		*10/02/23 21:07*	*2*
4-Bromofluorobenzene (Surr)	*81*		*70 - 130*		*10/02/23 21:07*	*2*
Dibromofluoromethane (Surr)	*108*		*70 - 130*		*10/02/23 21:07*	*2*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/02/23 21:07*	*2*

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27160-1

Client Sample ID: LC34-DPT0923-013.0-20230920
Date Collected: 09/20/23 13:00
Date Received: 09/21/23 08:00

Lab Sample ID: 670-27160-22
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	5.0	1.1	ug/L			10/02/23 21:30	5
1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	ug/L			10/02/23 21:30	5
1,1,2-Trichloro-1,2,2-trifluoroethane	1.2	U	5.0	1.2	ug/L			10/02/23 21:30	5
1,1,2-Trichloroethane	1.6	U	5.0	1.6	ug/L			10/02/23 21:30	5
1,1-Dichloroethane	1.7	U	5.0	1.7	ug/L			10/02/23 21:30	5
1,1-Dichloroethene	1.7	U	5.0	1.7	ug/L			10/02/23 21:30	5
1,2,4-Trichlorobenzene	2.7	U	25	2.7	ug/L			10/02/23 21:30	5
1,2-Dibromo-3-Chloropropane	9.0	U J3	25	9.0	ug/L			10/02/23 21:30	5
1,2-Dibromoethane (EDB)	1.7	U	5.0	1.7	ug/L			10/02/23 21:30	5
1,2-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/02/23 21:30	5
1,2-Dichloroethane	1.3	U	5.0	1.3	ug/L			10/02/23 21:30	5
1,2-Dichloropropane	1.1	U	5.0	1.1	ug/L			10/02/23 21:30	5
1,3-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/02/23 21:30	5
1,4-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/02/23 21:30	5
2-Butanone (MEK)	32	U	50	32	ug/L			10/02/23 21:30	5
2-Hexanone	16	U	50	16	ug/L			10/02/23 21:30	5
4-Methyl-2-pentanone	14	U	50	14	ug/L			10/02/23 21:30	5
Acetone	19	U	50	19	ug/L			10/02/23 21:30	5
Benzene	1.4	U	5.0	1.4	ug/L			10/02/23 21:30	5
Bromodichloromethane	1.3	U	5.0	1.3	ug/L			10/02/23 21:30	5
Bromoform	3.0	U	5.0	3.0	ug/L			10/02/23 21:30	5
Bromomethane	19	U J3	25	19	ug/L			10/02/23 21:30	5
Carbon disulfide	2.2	U	10	2.2	ug/L			10/02/23 21:30	5
Carbon tetrachloride	1.5	U	5.0	1.5	ug/L			10/02/23 21:30	5
Chlorobenzene	0.75	U	5.0	0.75	ug/L			10/02/23 21:30	5
Chloroethane	23	U J3	25	23	ug/L			10/02/23 21:30	5
Chloroform	1.4	U	5.0	1.4	ug/L			10/02/23 21:30	5
Chloromethane	2.7	U	5.0	2.7	ug/L			10/02/23 21:30	5
cis-1,2-Dichloroethene	**320**		5.0	1.3	ug/L			10/02/23 21:30	5
cis-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			10/02/23 21:30	5
Cyclohexane	1.4	U	5.0	1.4	ug/L			10/02/23 21:30	5
Dibromochloromethane	2.0	U	5.0	2.0	ug/L			10/02/23 21:30	5
Dichlorodifluoromethane	1.8	U	5.0	1.8	ug/L			10/02/23 21:30	5
Ethylbenzene	1.0	U	5.0	1.0	ug/L			10/02/23 21:30	5
Isopropylbenzene	1.3	U	5.0	1.3	ug/L			10/02/23 21:30	5
m,p-Xylenes	2.5	U	5.0	2.5	ug/L			10/02/23 21:30	5
Methyl acetate	16	U	25	16	ug/L			10/02/23 21:30	5
Methyl tert-butyl ether	4.1	U	25	4.1	ug/L			10/02/23 21:30	5
Methylene Chloride	16	U	25	16	ug/L			10/02/23 21:30	5
o-Xylene	1.3	U	5.0	1.3	ug/L			10/02/23 21:30	5
Styrene	1.4	U	5.0	1.4	ug/L			10/02/23 21:30	5
Tetrachloroethene	1.8	U	5.0	1.8	ug/L			10/02/23 21:30	5
Toluene	1.3	U	5.0	1.3	ug/L			10/02/23 21:30	5
trans-1,2-Dichloroethene	1.7	U	5.0	1.7	ug/L			10/02/23 21:30	5
trans-1,3-Dichloropropene	1.2	U	5.0	1.2	ug/L			10/02/23 21:30	5
Trichloroethene	1.0	U	5.0	1.0	ug/L			10/02/23 21:30	5
Trichlorofluoromethane	1.7	U J3	5.0	1.7	ug/L			10/02/23 21:30	5
Vinyl chloride	**260**		5.0	2.0	ug/L			10/02/23 21:30	5
Xylenes, Total	1.2	U	5.0	1.2	ug/L			10/02/23 21:30	5

Client Sample ID: LC34-DPT0923-013.0-20230920
Lab Sample ID: 670-27160-22
Date Collected: 09/20/23 13:00
Matrix: Water
Date Received: 09/21/23 08:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 124*		*10/02/23 21:30*	*5*
4-Bromofluorobenzene (Surr)	*80*		*70 - 130*		*10/02/23 21:30*	*5*
Dibromofluoromethane (Surr)	*107*		*70 - 130*		*10/02/23 21:30*	*5*
Toluene-d8 (Surr)	*103*		*70 - 130*		*10/02/23 21:30*	*5*

Client Sample ID: LC34-DPT0923-018.0-20230920
Lab Sample ID: 670-27160-23
Date Collected: 09/20/23 13:15
Matrix: Water
Date Received: 09/21/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			09/29/23 21:16	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			09/29/23 21:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			09/29/23 21:16	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			09/29/23 21:16	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			09/29/23 21:16	1
1,1-Dichloroethene	**0.66**	**I**	1.0	0.33	ug/L			09/29/23 21:16	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			09/29/23 21:16	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			09/29/23 21:16	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			09/29/23 21:16	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/29/23 21:16	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			09/29/23 21:16	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			09/29/23 21:16	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/29/23 21:16	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/29/23 21:16	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			09/29/23 21:16	1
2-Hexanone	3.2	U	10	3.2	ug/L			09/29/23 21:16	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			09/29/23 21:16	1
Acetone	3.7	U	10	3.7	ug/L			09/29/23 21:16	1
Benzene	0.27	U	1.0	0.27	ug/L			09/29/23 21:16	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			09/29/23 21:16	1
Bromoform	0.59	U	1.0	0.59	ug/L			09/29/23 21:16	1
Bromomethane	**4.4**	**I**	5.0	3.7	ug/L			09/29/23 21:16	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			09/29/23 21:16	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			09/29/23 21:16	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			09/29/23 21:16	1
Chloroethane	4.6	U	5.0	4.6	ug/L			09/29/23 21:16	1
Chloroform	0.27	U	1.0	0.27	ug/L			09/29/23 21:16	1
Chloromethane	**1.2**		1.0	0.54	ug/L			09/29/23 21:16	1
cis-1,2-Dichloroethene	**2200**	**L**	1.0	0.25	ug/L			10/02/23 19:10	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			09/29/23 21:16	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			09/29/23 21:16	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			09/29/23 21:16	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			09/29/23 21:16	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			09/29/23 21:16	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			09/29/23 21:16	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			09/29/23 21:16	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			09/29/23 21:16	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			09/29/23 21:16	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			09/29/23 21:16	1

Client Sample ID: LC34-DPT0923-018.0-20230920

Lab Sample ID: 670-27160-23

Date Collected: 09/20/23 13:15

Matrix: Water

Date Received: 09/21/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	0.26	U	1.0	0.26	ug/L			09/29/23 21:16	1
Styrene	0.27	U	1.0	0.27	ug/L			09/29/23 21:16	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			09/29/23 21:16	1
Toluene	0.25	U	1.0	0.25	ug/L			09/29/23 21:16	1
trans-1,2-Dichloroethene	**9.4**		1.0	0.34	ug/L			09/29/23 21:16	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			09/29/23 21:16	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			09/29/23 21:16	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			09/29/23 21:16	1
Vinyl chloride	**670**	**L**	1.0	0.40	ug/L			10/02/23 19:10	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			09/29/23 21:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*125*	*J1*	*60 - 124*		*09/29/23 21:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 124*		*10/02/23 19:10*	*1*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*09/29/23 21:16*	*1*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*		*10/02/23 19:10*	*1*
Dibromofluoromethane (Surr)	*117*		*70 - 130*		*09/29/23 21:16*	*1*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*10/02/23 19:10*	*1*
Toluene-d8 (Surr)	*114*		*70 - 130*		*09/29/23 21:16*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/02/23 19:10*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**2100**	**Q**	25	6.3	ug/L			10/04/23 19:49	25
Vinyl chloride	**570**	**Q**	25	10	ug/L			10/04/23 19:49	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*60 - 124*		*10/04/23 19:49*	*25*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*10/04/23 19:49*	*25*
Dibromofluoromethane (Surr)	*116*		*70 - 130*		*10/04/23 19:49*	*25*
Toluene-d8 (Surr)	*119*		*70 - 130*		*10/04/23 19:49*	*25*

Client Sample ID: LC34-DPT0923-025.0-20230920

Lab Sample ID: 670-27160-24

Date Collected: 09/20/23 13:30

Matrix: Water

Date Received: 09/21/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			09/29/23 21:36	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			09/29/23 21:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			09/29/23 21:36	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			09/29/23 21:36	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			09/29/23 21:36	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			09/29/23 21:36	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			09/29/23 21:36	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			09/29/23 21:36	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			09/29/23 21:36	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/29/23 21:36	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			09/29/23 21:36	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			09/29/23 21:36	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/29/23 21:36	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27160-1

Client Sample ID: LC34-DPT0923-025.0-20230920
Date Collected: 09/20/23 13:30
Date Received: 09/21/23 08:00

Lab Sample ID: 670-27160-24
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/29/23 21:36	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			09/29/23 21:36	1
2-Hexanone	3.2	U	10	3.2	ug/L			09/29/23 21:36	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			09/29/23 21:36	1
Acetone	3.7	U	10	3.7	ug/L			09/29/23 21:36	1
Benzene	0.27	U	1.0	0.27	ug/L			09/29/23 21:36	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			09/29/23 21:36	1
Bromoform	0.59	U	1.0	0.59	ug/L			09/29/23 21:36	1
Bromomethane	3.7	U	5.0	3.7	ug/L			09/29/23 21:36	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			09/29/23 21:36	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			09/29/23 21:36	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			09/29/23 21:36	1
Chloroethane	4.6	U	5.0	4.6	ug/L			09/29/23 21:36	1
Chloroform	0.27	U	1.0	0.27	ug/L			09/29/23 21:36	1
Chloromethane	**0.67**	**I**	1.0	0.54	ug/L			09/29/23 21:36	1
cis-1,2-Dichloroethene	**1700**	**L**	1.0	0.25	ug/L			10/02/23 19:33	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			09/29/23 21:36	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			09/29/23 21:36	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			09/29/23 21:36	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			09/29/23 21:36	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			09/29/23 21:36	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			09/29/23 21:36	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			09/29/23 21:36	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			09/29/23 21:36	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			09/29/23 21:36	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			09/29/23 21:36	1
o-Xylene	0.26	U	1.0	0.26	ug/L			09/29/23 21:36	1
Styrene	0.27	U	1.0	0.27	ug/L			09/29/23 21:36	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			09/29/23 21:36	1
Toluene	0.25	U	1.0	0.25	ug/L			09/29/23 21:36	1
trans-1,2-Dichloroethene	**2.3**		1.0	0.34	ug/L			09/29/23 21:36	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			09/29/23 21:36	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			09/29/23 21:36	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			09/29/23 21:36	1
Vinyl chloride	**160**		1.0	0.40	ug/L			10/02/23 19:33	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			09/29/23 21:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*60 - 124*		*09/29/23 21:36*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 124*		*10/02/23 19:33*	*1*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*09/29/23 21:36*	*1*
4-Bromofluorobenzene (Surr)	*81*		*70 - 130*		*10/02/23 19:33*	*1*
Dibromofluoromethane (Surr)	*116*		*70 - 130*		*09/29/23 21:36*	*1*
Dibromofluoromethane (Surr)	*107*		*70 - 130*		*10/02/23 19:33*	*1*
Toluene-d8 (Surr)	*120*		*70 - 130*		*09/29/23 21:36*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/02/23 19:33*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**1600**	**Q**	25	6.3	ug/L			10/04/23 19:05	25

Client Sample ID: LC34-DPT0923-025.0-20230920 **Lab Sample ID: 670-27160-24**
Date Collected: 09/20/23 13:30 **Matrix: Water**
Date Received: 09/21/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	**160**	**Q**	25	10	ug/L			10/04/23 19:05	25

Client Sample ID: LC34-DPT0923-034.0-20230920 **Lab Sample ID: 670-27160-25**
Date Collected: 09/20/23 13:45 **Matrix: Water**
Date Received: 09/21/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.42	U	2.0	0.42	ug/L			10/02/23 21:54	2
1,1,2,2-Tetrachloroethane	0.80	U	2.0	0.80	ug/L			10/02/23 21:54	2
1,1,2-Trichloro-1,2,2-trifluoroethane	0.46	U	2.0	0.46	ug/L			10/02/23 21:54	2
1,1,2-Trichloroethane	0.64	U	2.0	0.64	ug/L			10/02/23 21:54	2
1,1-Dichloroethane	0.66	U	2.0	0.66	ug/L			10/02/23 21:54	2
1,1-Dichloroethene	0.66	U	2.0	0.66	ug/L			10/02/23 21:54	2
1,2,4-Trichlorobenzene	1.1	U	10	1.1	ug/L			10/02/23 21:54	2
1,2-Dibromo-3-Chloropropane	3.6	U J3	10	3.6	ug/L			10/02/23 21:54	2
1,2-Dibromoethane (EDB)	0.66	U	2.0	0.66	ug/L			10/02/23 21:54	2
1,2-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/02/23 21:54	2
1,2-Dichloroethane	0.50	U	2.0	0.50	ug/L			10/02/23 21:54	2
1,2-Dichloropropane	0.44	U	2.0	0.44	ug/L			10/02/23 21:54	2
1,3-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/02/23 21:54	2
1,4-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/02/23 21:54	2
2-Butanone (MEK)	13	U	20	13	ug/L			10/02/23 21:54	2
2-Hexanone	6.4	U	20	6.4	ug/L			10/02/23 21:54	2
4-Methyl-2-pentanone	5.4	U	20	5.4	ug/L			10/02/23 21:54	2
Acetone	7.4	U	20	7.4	ug/L			10/02/23 21:54	2
Benzene	0.54	U	2.0	0.54	ug/L			10/02/23 21:54	2
Bromodichloromethane	0.50	U	2.0	0.50	ug/L			10/02/23 21:54	2
Bromoform	1.2	U	2.0	1.2	ug/L			10/02/23 21:54	2
Bromomethane	7.4	U J3	10	7.4	ug/L			10/02/23 21:54	2
Carbon disulfide	0.86	U	4.0	0.86	ug/L			10/02/23 21:54	2
Carbon tetrachloride	0.60	U	2.0	0.60	ug/L			10/02/23 21:54	2
Chlorobenzene	0.30	U	2.0	0.30	ug/L			10/02/23 21:54	2
Chloroethane	9.2	U J3	10	9.2	ug/L			10/02/23 21:54	2
Chloroform	0.54	U	2.0	0.54	ug/L			10/02/23 21:54	2
Chloromethane	1.1	U	2.0	1.1	ug/L			10/02/23 21:54	2
cis-1,2-Dichloroethene	**1.3**	**I**	2.0	0.50	ug/L			10/02/23 21:54	2
cis-1,3-Dichloropropene	0.52	U	2.0	0.52	ug/L			10/02/23 21:54	2
Cyclohexane	0.56	U	2.0	0.56	ug/L			10/02/23 21:54	2
Dibromochloromethane	0.78	U	2.0	0.78	ug/L			10/02/23 21:54	2
Dichlorodifluoromethane	0.72	U	2.0	0.72	ug/L			10/02/23 21:54	2
Ethylbenzene	0.40	U	2.0	0.40	ug/L			10/02/23 21:54	2
Isopropylbenzene	0.52	U	2.0	0.52	ug/L			10/02/23 21:54	2
m,p-Xylenes	0.98	U	2.0	0.98	ug/L			10/02/23 21:54	2
Methyl acetate	6.4	U	10	6.4	ug/L			10/02/23 21:54	2
Methyl tert-butyl ether	1.6	U	10	1.6	ug/L			10/02/23 21:54	2
Methylene Chloride	6.4	U	10	6.4	ug/L			10/02/23 21:54	2
o-Xylene	0.52	U	2.0	0.52	ug/L			10/02/23 21:54	2
Styrene	0.54	U	2.0	0.54	ug/L			10/02/23 21:54	2
Tetrachloroethene	0.70	U	2.0	0.70	ug/L			10/02/23 21:54	2

Client Sample ID: LC34-DPT0923-034.0-20230920

Lab Sample ID: 670-27160-25

Date Collected: 09/20/23 13:45

Matrix: Water

Date Received: 09/21/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	0.50	U	2.0	0.50	ug/L			10/02/23 21:54	2
trans-1,2-Dichloroethene	0.68	U	2.0	0.68	ug/L			10/02/23 21:54	2
trans-1,3-Dichloropropene	0.46	U	2.0	0.46	ug/L			10/02/23 21:54	2
Trichloroethene	0.40	U	2.0	0.40	ug/L			10/02/23 21:54	2
Trichlorofluoromethane	0.66	U J3	2.0	0.66	ug/L			10/02/23 21:54	2
Vinyl chloride	0.80	U	2.0	0.80	ug/L			10/02/23 21:54	2
Xylenes, Total	0.46	U	2.0	0.46	ug/L			10/02/23 21:54	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 124*		*10/02/23 21:54*	*2*
4-Bromofluorobenzene (Surr)	*81*		*70 - 130*		*10/02/23 21:54*	*2*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*10/02/23 21:54*	*2*
Toluene-d8 (Surr)	*102*		*70 - 130*		*10/02/23 21:54*	*2*

Client Sample ID: LC34-DPT0923-038.0-20230920

Lab Sample ID: 670-27160-26

Date Collected: 09/20/23 14:05

Matrix: Water

Date Received: 09/21/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2.1	U	10	2.1	ug/L			10/02/23 22:17	10
1,1,2,2-Tetrachloroethane	4.0	U	10	4.0	ug/L			10/02/23 22:17	10
1,1,2-Trichloro-1,2,2-trifluoroethane	2.3	U	10	2.3	ug/L			10/02/23 22:17	10
1,1,2-Trichloroethane	3.2	U	10	3.2	ug/L			10/02/23 22:17	10
1,1-Dichloroethane	3.3	U	10	3.3	ug/L			10/02/23 22:17	10
1,1-Dichloroethene	3.3	U	10	3.3	ug/L			10/02/23 22:17	10
1,2,4-Trichlorobenzene	5.3	U	50	5.3	ug/L			10/02/23 22:17	10
1,2-Dibromo-3-Chloropropane	18	U J3	50	18	ug/L			10/02/23 22:17	10
1,2-Dibromoethane (EDB)	3.3	U	10	3.3	ug/L			10/02/23 22:17	10
1,2-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/02/23 22:17	10
1,2-Dichloroethane	2.5	U	10	2.5	ug/L			10/02/23 22:17	10
1,2-Dichloropropane	2.2	U	10	2.2	ug/L			10/02/23 22:17	10
1,3-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/02/23 22:17	10
1,4-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/02/23 22:17	10
2-Butanone (MEK)	64	U	100	64	ug/L			10/02/23 22:17	10
2-Hexanone	32	U	100	32	ug/L			10/02/23 22:17	10
4-Methyl-2-pentanone	27	U	100	27	ug/L			10/02/23 22:17	10
Acetone	37	U	100	37	ug/L			10/02/23 22:17	10
Benzene	2.7	U	10	2.7	ug/L			10/02/23 22:17	10
Bromodichloromethane	2.5	U	10	2.5	ug/L			10/02/23 22:17	10
Bromoform	5.9	U	10	5.9	ug/L			10/02/23 22:17	10
Bromomethane	37	U J3	50	37	ug/L			10/02/23 22:17	10
Carbon disulfide	4.3	U	20	4.3	ug/L			10/02/23 22:17	10
Carbon tetrachloride	3.0	U	10	3.0	ug/L			10/02/23 22:17	10
Chlorobenzene	1.5	U	10	1.5	ug/L			10/02/23 22:17	10
Chloroethane	46	U J3	50	46	ug/L			10/02/23 22:17	10
Chloroform	2.7	U	10	2.7	ug/L			10/02/23 22:17	10
Chloromethane	5.4	U	10	5.4	ug/L			10/02/23 22:17	10
cis-1,2-Dichloroethene	**3.4**	**I**	10	2.5	ug/L			10/02/23 22:17	10
cis-1,3-Dichloropropene	2.6	U	10	2.6	ug/L			10/02/23 22:17	10

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27160-1

Client Sample ID: LC34-DPT0923-038.0-20230920
Date Collected: 09/20/23 14:05
Date Received: 09/21/23 08:00

Lab Sample ID: 670-27160-26
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	2.8	U	10	2.8	ug/L			10/02/23 22:17	10
Dibromochloromethane	3.9	U	10	3.9	ug/L			10/02/23 22:17	10
Dichlorodifluoromethane	3.6	U	10	3.6	ug/L			10/02/23 22:17	10
Ethylbenzene	2.0	U	10	2.0	ug/L			10/02/23 22:17	10
Isopropylbenzene	2.6	U	10	2.6	ug/L			10/02/23 22:17	10
m,p-Xylenes	4.9	U	10	4.9	ug/L			10/02/23 22:17	10
Methyl acetate	32	U	50	32	ug/L			10/02/23 22:17	10
Methyl tert-butyl ether	8.1	U	50	8.1	ug/L			10/02/23 22:17	10
Methylene Chloride	32	U	50	32	ug/L			10/02/23 22:17	10
o-Xylene	2.6	U	10	2.6	ug/L			10/02/23 22:17	10
Styrene	2.7	U	10	2.7	ug/L			10/02/23 22:17	10
Tetrachloroethene	3.5	U	10	3.5	ug/L			10/02/23 22:17	10
Toluene	2.5	U	10	2.5	ug/L			10/02/23 22:17	10
trans-1,2-Dichloroethene	3.4	U	10	3.4	ug/L			10/02/23 22:17	10
trans-1,3-Dichloropropene	2.3	U	10	2.3	ug/L			10/02/23 22:17	10
Trichloroethene	2.0	U	10	2.0	ug/L			10/02/23 22:17	10
Trichlorofluoromethane	3.3	U J3	10	3.3	ug/L			10/02/23 22:17	10
Vinyl chloride	4.0	U	10	4.0	ug/L			10/02/23 22:17	10
Xylenes, Total	2.3	U	10	2.3	ug/L			10/02/23 22:17	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 124*		*10/02/23 22:17*	*10*
4-Bromofluorobenzene (Surr)	*81*		*70 - 130*		*10/02/23 22:17*	*10*
Dibromofluoromethane (Surr)	*108*		*70 - 130*		*10/02/23 22:17*	*10*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/02/23 22:17*	*10*

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27160-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	DCA (60-124)	BFB (70-130)	DBFM (70-130)	TOL (70-130)				
670-27160-1	LC34-DPT0919-034.0-20230919	105	83	107	102				
670-27160-2	LC34-DPT0919-038.0-20230919	106	82	109	101				
670-27160-3	LC34-DPT0920-008.0-20230919	104	82	108	103				
670-27160-4	LC34-DPT00920-013.0-20230919	106	83	107	101				
670-27160-5	LC34-DPT0920-018.0-20230919	104	83	108	101				
670-27160-6	LC34-DPT0920-025.0-20230919	105	83	109	101				
670-27160-6 - RADL	LC34-DPT0920-025.0-20230919	106	98	117	116				
670-27160-7	LC34-DPT0920-034.0-20230919	103	81	108	101				
670-27160-8	LC34-DPT0920-38.0-20230919	105	81	106	101				
670-27160-9	LC34-DPT0921-008.0-20230920	105	83	111	101				
670-27160-10	LC34-DPT0921-013.0-20230920	102	100	115	121				
670-27160-11	LC34-DPT0921-018.0-20230920	105	98	105	120				
670-27160-11	LC34-DPT0921-018.0-20230920	102	83	108	101				
670-27160-12	LC34-DPT0921-025.0-20230920	107	99	103	119				
670-27160-12	LC34-DPT0921-025.0-20230920	102	81	105	101				
670-27160-13	LC34-DPT0921-034.0-20230920	110	98	116	120				
670-27160-13	LC34-DPT0921-034.0-20230920	109	79	114	100				
670-27160-14	LC34-DPT0921-038.0-20230920	110	97	118	121				
670-27160-14	LC34-DPT0921-038.0-20230920	105	82	111	101				
670-27160-15	LC34-DPT0922-008.0-20230920	104	100	116	126				
670-27160-15	LC34-DPT0922-008.0-20230920	104	81	109	100				
670-27160-16	LC34-DPT0922-013.0-20230920	104	82	108	101				
670-27160-17	LC34-DPT0922-018.0-20230920	110	96	104	116				
670-27160-17	LC34-DPT0922-018.0-20230920	105	82	110	101				
670-27160-17 - DL	LC34-DPT0922-018.0-20230920	109	97	116	120				
670-27160-18	LC34-DPT0922-025.0-20230920	108	97	107	119				
670-27160-18	LC34-DPT0922-025.0-20230920	103	81	107	100				
670-27160-18 - DL	LC34-DPT0922-025.0-20230920	107	97	115	118				
670-27160-19	LC34-DPT0922-034.0-20230920	115	98	117	122				

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(60-124)	(70-130)	(70-130)	(70-130)
670-27160-19	LC34-DPT0922-034.0-20230920	104	82	108	101
670-27160-20	LC34-DPT0922-038.0-20230920	116	96	119	118
670-27160-20	LC34-DPT0922-038.0-20230920	106	82	108	101
670-27160-21	LC34-DPT0923-008.0-20230920	104	81	108	101
670-27160-22	LC34-DPT0923-013.0-20230920	100	80	107	103
670-27160-23	LC34-DPT0923-018.0-20230920	125 J1	92	117	114
670-27160-23	LC34-DPT0923-018.0-20230920	105	82	109	101
670-27160-23 - DL	LC34-DPT0923-018.0-20230920	106	94	116	119
670-27160-24	LC34-DPT0923-025.0-20230920	116	96	116	120
670-27160-24	LC34-DPT0923-025.0-20230920	103	81	107	100
670-27160-25	LC34-DPT0923-034.0-20230920	102	81	109	102
670-27160-26	LC34-DPT0923-038.0-20230920	104	81	108	101
LB 680-800294/1-A	Method Blank	104	82	109	101
LB 680-801345/1-A	Method Blank	109	98	126	117
LCS 680-800234/4	Lab Control Sample	108	91	109	98
LCS 680-800321/3	Lab Control Sample	105	109	103	114
LCS 680-800533/4	Lab Control Sample	110	92	112	100
LCS 680-801299/3	Lab Control Sample	100	109	101	115
LCSD 680-800234/5	Lab Control Sample Dup	107	90	109	97
LCSD 680-800321/4	Lab Control Sample Dup	100	106	98	113
LCSD 680-800533/5	Lab Control Sample Dup	111	90	112	99
LCSD 680-801299/4	Lab Control Sample Dup	104	108	103	115
MB 680-800234/10	Method Blank	105	81	108	101
MB 680-800321/7	Method Blank	100	99	113	123
MB 680-800533/10	Method Blank	102	79	107	101
MB 680-801299/7	Method Blank	105	98	125	119

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(60-124)	(70-130)	(70-130)	(70-130)
680-240706-L-7-A MS	Matrix Spike	104	92	106	101
680-240706-L-7-A MSD	Matrix Spike Duplicate	104	90	105	97
680-240985-D-1-A MS	Matrix Spike	100	108	103	115
680-240985-D-1-A MSD	Matrix Spike Duplicate	100	107	107	110

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27160-1

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 680-800234/10
Matrix: Water
Analysis Batch: 800234

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			09/29/23 13:42	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			09/29/23 13:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			09/29/23 13:42	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			09/29/23 13:42	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			09/29/23 13:42	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			09/29/23 13:42	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			09/29/23 13:42	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			09/29/23 13:42	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			09/29/23 13:42	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/29/23 13:42	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			09/29/23 13:42	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			09/29/23 13:42	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/29/23 13:42	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/29/23 13:42	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			09/29/23 13:42	1
2-Hexanone	3.2	U	10	3.2	ug/L			09/29/23 13:42	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			09/29/23 13:42	1
Acetone	3.7	U	10	3.7	ug/L			09/29/23 13:42	1
Benzene	0.27	U	1.0	0.27	ug/L			09/29/23 13:42	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			09/29/23 13:42	1
Bromoform	0.59	U	1.0	0.59	ug/L			09/29/23 13:42	1
Bromomethane	3.7	U	5.0	3.7	ug/L			09/29/23 13:42	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			09/29/23 13:42	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			09/29/23 13:42	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			09/29/23 13:42	1
Chloroethane	4.6	U	5.0	4.6	ug/L			09/29/23 13:42	1
Chloroform	0.27	U	1.0	0.27	ug/L			09/29/23 13:42	1
Chloromethane	0.54	U	1.0	0.54	ug/L			09/29/23 13:42	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			09/29/23 13:42	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			09/29/23 13:42	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			09/29/23 13:42	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			09/29/23 13:42	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			09/29/23 13:42	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			09/29/23 13:42	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			09/29/23 13:42	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			09/29/23 13:42	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			09/29/23 13:42	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			09/29/23 13:42	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			09/29/23 13:42	1
o-Xylene	0.26	U	1.0	0.26	ug/L			09/29/23 13:42	1
Styrene	0.27	U	1.0	0.27	ug/L			09/29/23 13:42	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			09/29/23 13:42	1
Toluene	0.25	U	1.0	0.25	ug/L			09/29/23 13:42	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			09/29/23 13:42	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			09/29/23 13:42	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			09/29/23 13:42	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			09/29/23 13:42	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			09/29/23 13:42	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-800234/10
Matrix: Water
Analysis Batch: 800234

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	0.23	U	1.0	0.23	ug/L			09/29/23 13:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 124*		*09/29/23 13:42*	*1*
4-Bromofluorobenzene (Surr)	*81*		*70 - 130*		*09/29/23 13:42*	*1*
Dibromofluoromethane (Surr)	*108*		*70 - 130*		*09/29/23 13:42*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*09/29/23 13:42*	*1*

Lab Sample ID: LCS 680-800234/4
Matrix: Water
Analysis Batch: 800234

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	51.8		ug/L		104	70 - 130
1,1,2,2-Tetrachloroethane	50.0	43.6		ug/L		87	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	52.9		ug/L		106	63 - 141
1,1,2-Trichloroethane	50.0	45.5		ug/L		91	70 - 130
1,1-Dichloroethane	50.0	46.7		ug/L		93	70 - 130
1,1-Dichloroethene	50.0	49.5		ug/L		99	70 - 130
1,2,4-Trichlorobenzene	50.0	44.6		ug/L		89	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	32.9	J3	ug/L		66	70 - 130
1,2-Dibromoethane (EDB)	50.0	48.6		ug/L		97	70 - 130
1,2-Dichlorobenzene	50.0	46.8		ug/L		94	70 - 130
1,2-Dichloroethane	50.0	51.9		ug/L		104	70 - 130
1,2-Dichloropropane	50.0	45.3		ug/L		91	70 - 130
1,3-Dichlorobenzene	50.0	47.1		ug/L		94	70 - 130
1,4-Dichlorobenzene	50.0	47.2		ug/L		94	70 - 130
2-Butanone (MEK)	250	198		ug/L		79	69 - 120
2-Hexanone	250	201		ug/L		80	70 - 130
4-Methyl-2-pentanone	250	214		ug/L		85	68 - 120
Acetone	250	178		ug/L		71	67 - 120
Benzene	50.0	47.1		ug/L		94	70 - 130
Bromodichloromethane	50.0	49.7		ug/L		99	70 - 130
Bromoform	50.0	47.6		ug/L		95	69 - 129
Bromomethane	50.0	99.2	J3	ug/L		198	28 - 192
Carbon disulfide	50.0	45.1		ug/L		90	70 - 130
Carbon tetrachloride	50.0	56.6		ug/L		113	70 - 130
Chlorobenzene	50.0	50.1		ug/L		100	70 - 130
Chloroethane	50.0	118	J3	ug/L		236	31 - 213
Chloroform	50.0	51.7		ug/L		103	70 - 130
Chloromethane	50.0	39.3		ug/L		79	59 - 127
cis-1,2-Dichloroethene	50.0	49.5		ug/L		99	70 - 130
cis-1,3-Dichloropropene	50.0	46.6		ug/L		93	70 - 130
Cyclohexane	50.0	46.6		ug/L		93	23 - 175
Dibromochloromethane	50.0	51.6		ug/L		103	70 - 130
Dichlorodifluoromethane	50.0	50.6		ug/L		101	70 - 130
Ethylbenzene	50.0	50.0		ug/L		100	70 - 130
Isopropylbenzene	50.0	50.8		ug/L		102	70 - 130

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-800234/4
Matrix: Water
Analysis Batch: 800234

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
m,p-Xylenes	50.0	49.1		ug/L		98	70 - 130
Methyl acetate	100	69.7		ug/L		70	67 - 120
Methyl tert-butyl ether	50.0	45.8		ug/L		92	70 - 130
Methylene Chloride	50.0	49.0		ug/L		98	70 - 130
o-Xylene	50.0	48.6		ug/L		97	70 - 130
Styrene	50.0	48.7		ug/L		97	70 - 130
Tetrachloroethene	50.0	54.4		ug/L		109	70 - 130
Toluene	50.0	48.1		ug/L		96	70 - 130
trans-1,2-Dichloroethene	50.0	49.8		ug/L		100	70 - 130
trans-1,3-Dichloropropene	50.0	48.2		ug/L		96	70 - 130
Trichloroethene	50.0	50.5		ug/L		101	70 - 130
Trichlorofluoromethane	50.0	105	J3	ug/L		211	63 - 142
Vinyl chloride	50.0	46.6		ug/L		93	66 - 129
Xylenes, Total	100	97.7		ug/L		98	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*108*		*60 - 124*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*
Dibromofluoromethane (Surr)	*109*		*70 - 130*
Toluene-d8 (Surr)	*98*		*70 - 130*

Lab Sample ID: LCSD 680-800234/5
Matrix: Water
Analysis Batch: 800234

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	50.0	50.8		ug/L		102	70 - 130	2	30
1,1,2,2-Tetrachloroethane	50.0	42.8		ug/L		86	70 - 130	2	30
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	51.3		ug/L		103	63 - 141	3	30
1,1,2-Trichloroethane	50.0	45.3		ug/L		91	70 - 130	0	30
1,1-Dichloroethane	50.0	46.7		ug/L		93	70 - 130	0	30
1,1-Dichloroethene	50.0	48.1		ug/L		96	70 - 130	3	20
1,2,4-Trichlorobenzene	50.0	42.9		ug/L		86	70 - 130	4	30
1,2-Dibromo-3-Chloropropane	50.0	32.7	J3	ug/L		65	70 - 130	1	30
1,2-Dibromoethane (EDB)	50.0	48.4		ug/L		97	70 - 130	0	30
1,2-Dichlorobenzene	50.0	46.4		ug/L		93	70 - 130	1	30
1,2-Dichloroethane	50.0	50.9		ug/L		102	70 - 130	2	50
1,2-Dichloropropane	50.0	45.1		ug/L		90	70 - 130	0	20
1,3-Dichlorobenzene	50.0	46.8		ug/L		94	70 - 130	1	30
1,4-Dichlorobenzene	50.0	46.7		ug/L		93	70 - 130	1	30
2-Butanone (MEK)	250	190		ug/L		76	69 - 120	4	30
2-Hexanone	250	192		ug/L		77	70 - 130	5	20
4-Methyl-2-pentanone	250	205		ug/L		82	68 - 120	4	30
Acetone	250	174		ug/L		70	67 - 120	2	30
Benzene	50.0	46.9		ug/L		94	70 - 130	0	30
Bromodichloromethane	50.0	49.8		ug/L		100	70 - 130	0	30
Bromoform	50.0	47.8		ug/L		96	69 - 129	1	30
Bromomethane	50.0	99.4	J3	ug/L		199	28 - 192	0	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-800234/5
Matrix: Water
Analysis Batch: 800234

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon disulfide	50.0	42.8		ug/L		86	70 - 130	5	30
Carbon tetrachloride	50.0	55.4		ug/L		111	70 - 130	2	30
Chlorobenzene	50.0	49.7		ug/L		99	70 - 130	1	30
Chloroethane	50.0	110	J3	ug/L		220	31 - 213	7	30
Chloroform	50.0	51.2		ug/L		102	70 - 130	1	30
Chloromethane	50.0	39.3		ug/L		79	59 - 127	0	30
cis-1,2-Dichloroethene	50.0	49.1		ug/L		98	70 - 130	1	30
cis-1,3-Dichloropropene	50.0	45.7		ug/L		91	70 - 130	2	20
Cyclohexane	50.0	45.4		ug/L		91	23 - 175	3	30
Dibromochloromethane	50.0	51.0		ug/L		102	70 - 130	1	30
Dichlorodifluoromethane	50.0	48.7		ug/L		97	70 - 130	4	40
Ethylbenzene	50.0	49.0		ug/L		98	70 - 130	2	20
Isopropylbenzene	50.0	48.9		ug/L		98	70 - 130	4	30
m,p-Xylenes	50.0	48.1		ug/L		96	70 - 130	2	30
Methyl acetate	100	68.9		ug/L		69	67 - 120	1	30
Methyl tert-butyl ether	50.0	45.8		ug/L		92	70 - 130	0	30
Methylene Chloride	50.0	48.2		ug/L		96	70 - 130	2	30
o-Xylene	50.0	48.1		ug/L		96	70 - 130	1	30
Styrene	50.0	48.0		ug/L		96	70 - 130	2	30
Tetrachloroethene	50.0	53.2		ug/L		106	70 - 130	2	30
Toluene	50.0	47.0		ug/L		94	70 - 130	2	30
trans-1,2-Dichloroethene	50.0	49.1		ug/L		98	70 - 130	1	30
trans-1,3-Dichloropropene	50.0	47.8		ug/L		96	70 - 130	1	30
Trichloroethene	50.0	50.3		ug/L		101	70 - 130	0	30
Trichlorofluoromethane	50.0	101	J3	ug/L		202	63 - 142	4	30
Vinyl chloride	50.0	45.1		ug/L		90	66 - 129	3	30
Xylenes, Total	100	96.2		ug/L		96	70 - 130	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*107*		*60 - 124*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*
Dibromofluoromethane (Surr)	*109*		*70 - 130*
Toluene-d8 (Surr)	*97*		*70 - 130*

Lab Sample ID: MB 680-800321/7
Matrix: Water
Analysis Batch: 800321

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			09/29/23 15:57	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			09/29/23 15:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			09/29/23 15:57	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			09/29/23 15:57	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			09/29/23 15:57	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			09/29/23 15:57	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			09/29/23 15:57	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			09/29/23 15:57	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			09/29/23 15:57	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-800321/7
Matrix: Water
Analysis Batch: 800321

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/29/23 15:57	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			09/29/23 15:57	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			09/29/23 15:57	1
1,3-Dichlorobenzene	0.310	I	1.0	0.31	ug/L			09/29/23 15:57	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			09/29/23 15:57	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			09/29/23 15:57	1
2-Hexanone	3.2	U	10	3.2	ug/L			09/29/23 15:57	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			09/29/23 15:57	1
Acetone	3.7	U	10	3.7	ug/L			09/29/23 15:57	1
Benzene	0.27	U	1.0	0.27	ug/L			09/29/23 15:57	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			09/29/23 15:57	1
Bromoform	0.59	U	1.0	0.59	ug/L			09/29/23 15:57	1
Bromomethane	3.7	U	5.0	3.7	ug/L			09/29/23 15:57	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			09/29/23 15:57	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			09/29/23 15:57	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			09/29/23 15:57	1
Chloroethane	4.6	U	5.0	4.6	ug/L			09/29/23 15:57	1
Chloroform	0.27	U	1.0	0.27	ug/L			09/29/23 15:57	1
Chloromethane	0.54	U	1.0	0.54	ug/L			09/29/23 15:57	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			09/29/23 15:57	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			09/29/23 15:57	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			09/29/23 15:57	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			09/29/23 15:57	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			09/29/23 15:57	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			09/29/23 15:57	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			09/29/23 15:57	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			09/29/23 15:57	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			09/29/23 15:57	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			09/29/23 15:57	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			09/29/23 15:57	1
o-Xylene	0.26	U	1.0	0.26	ug/L			09/29/23 15:57	1
Styrene	0.27	U	1.0	0.27	ug/L			09/29/23 15:57	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			09/29/23 15:57	1
Toluene	0.25	U	1.0	0.25	ug/L			09/29/23 15:57	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			09/29/23 15:57	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			09/29/23 15:57	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			09/29/23 15:57	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			09/29/23 15:57	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			09/29/23 15:57	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			09/29/23 15:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 124*		*09/29/23 15:57*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*09/29/23 15:57*	*1*
Dibromofluoromethane (Surr)	*113*		*70 - 130*		*09/29/23 15:57*	*1*
Toluene-d8 (Surr)	*123*		*70 - 130*		*09/29/23 15:57*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-800321/3
Matrix: Water
Analysis Batch: 800321

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	47.5		ug/L		95	70 - 130
1,1,2,2-Tetrachloroethane	50.0	49.5		ug/L		99	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	56.6		ug/L		113	63 - 141
1,1,2-Trichloroethane	50.0	47.8		ug/L		96	70 - 130
1,1-Dichloroethane	50.0	51.0		ug/L		102	70 - 130
1,1-Dichloroethene	50.0	58.0		ug/L		116	70 - 130
1,2,4-Trichlorobenzene	50.0	52.4		ug/L		105	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	49.5		ug/L		99	70 - 130
1,2-Dibromoethane (EDB)	50.0	49.8		ug/L		100	70 - 130
1,2-Dichlorobenzene	50.0	50.8		ug/L		102	70 - 130
1,2-Dichloroethane	50.0	49.8		ug/L		100	70 - 130
1,2-Dichloropropane	50.0	50.9		ug/L		102	70 - 130
1,3-Dichlorobenzene	50.0	50.1		ug/L		100	70 - 130
1,4-Dichlorobenzene	50.0	50.3		ug/L		101	70 - 130
2-Butanone (MEK)	250	228		ug/L		91	69 - 120
2-Hexanone	250	275		ug/L		110	70 - 130
4-Methyl-2-pentanone	250	243		ug/L		97	68 - 120
Acetone	250	252		ug/L		101	67 - 120
Benzene	50.0	50.3		ug/L		101	70 - 130
Bromodichloromethane	50.0	47.7		ug/L		95	70 - 130
Bromoform	50.0	50.5		ug/L		101	69 - 129
Bromomethane	50.0	51.5		ug/L		103	28 - 192
Carbon disulfide	50.0	52.3		ug/L		105	70 - 130
Carbon tetrachloride	50.0	48.4		ug/L		97	70 - 130
Chlorobenzene	50.0	50.6		ug/L		101	70 - 130
Chloroethane	50.0	52.4		ug/L		105	31 - 213
Chloroform	50.0	51.5		ug/L		103	70 - 130
Chloromethane	50.0	47.2		ug/L		94	59 - 127
cis-1,2-Dichloroethene	50.0	50.8		ug/L		102	70 - 130
cis-1,3-Dichloropropene	50.0	52.0		ug/L		104	70 - 130
Cyclohexane	50.0	50.2		ug/L		100	23 - 175
Dibromochloromethane	50.0	50.4		ug/L		101	70 - 130
Dichlorodifluoromethane	50.0	42.2		ug/L		84	70 - 130
Ethylbenzene	50.0	45.2		ug/L		90	70 - 130
Isopropylbenzene	50.0	45.6		ug/L		91	70 - 130
m,p-Xylenes	50.0	51.2		ug/L		102	70 - 130
Methyl acetate	100	92.4		ug/L		92	67 - 120
Methyl tert-butyl ether	50.0	49.2		ug/L		98	70 - 130
Methylene Chloride	50.0	49.0		ug/L		98	70 - 130
o-Xylene	50.0	45.0		ug/L		90	70 - 130
Styrene	50.0	54.9		ug/L		110	70 - 130
Tetrachloroethene	50.0	52.4		ug/L		105	70 - 130
Toluene	50.0	54.8		ug/L		110	70 - 130
trans-1,2-Dichloroethene	50.0	52.5		ug/L		105	70 - 130
trans-1,3-Dichloropropene	50.0	51.1		ug/L		102	70 - 130
Trichloroethene	50.0	53.2		ug/L		106	70 - 130
Trichlorofluoromethane	50.0	58.0		ug/L		116	63 - 142
Vinyl chloride	50.0	48.6		ug/L		97	66 - 129

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-800321/3
Matrix: Water
Analysis Batch: 800321

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Xylenes, Total			100	96.2		ug/L		96	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 124*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
Dibromofluoromethane (Surr)	*103*		*70 - 130*
Toluene-d8 (Surr)	*114*		*70 - 130*

Lab Sample ID: LCSD 680-800321/4
Matrix: Water
Analysis Batch: 800321

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane			50.0	47.7		ug/L		95	70 - 130	0	30
1,1,2,2-Tetrachloroethane			50.0	49.7		ug/L		99	70 - 130	1	30
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	55.6		ug/L		111	63 - 141	2	30
1,1,2-Trichloroethane			50.0	46.5		ug/L		93	70 - 130	3	30
1,1-Dichloroethane			50.0	48.1		ug/L		96	70 - 130	6	30
1,1-Dichloroethene			50.0	55.0		ug/L		110	70 - 130	5	20
1,2,4-Trichlorobenzene			50.0	51.7		ug/L		103	70 - 130	1	30
1,2-Dibromo-3-Chloropropane			50.0	49.2		ug/L		98	70 - 130	0	30
1,2-Dibromoethane (EDB)			50.0	50.0		ug/L		100	70 - 130	0	30
1,2-Dichlorobenzene			50.0	50.1		ug/L		100	70 - 130	1	30
1,2-Dichloroethane			50.0	47.7		ug/L		95	70 - 130	4	50
1,2-Dichloropropane			50.0	50.0		ug/L		100	70 - 130	2	20
1,3-Dichlorobenzene			50.0	49.3		ug/L		99	70 - 130	2	30
1,4-Dichlorobenzene			50.0	49.6		ug/L		99	70 - 130	1	30
2-Butanone (MEK)			250	242		ug/L		97	69 - 120	6	30
2-Hexanone			250	276		ug/L		110	70 - 130	0	20
4-Methyl-2-pentanone			250	243		ug/L		97	68 - 120	0	30
Acetone			250	249		ug/L		99	67 - 120	1	30
Benzene			50.0	49.2		ug/L		98	70 - 130	2	30
Bromodichloromethane			50.0	48.4		ug/L		97	70 - 130	1	30
Bromoform			50.0	50.1		ug/L		100	69 - 129	1	30
Bromomethane			50.0	45.6		ug/L		91	28 - 192	12	30
Carbon disulfide			50.0	49.7		ug/L		99	70 - 130	5	30
Carbon tetrachloride			50.0	49.3		ug/L		99	70 - 130	2	30
Chlorobenzene			50.0	49.6		ug/L		99	70 - 130	2	30
Chloroethane			50.0	51.7		ug/L		103	31 - 213	1	30
Chloroform			50.0	48.7		ug/L		97	70 - 130	6	30
Chloromethane			50.0	43.8		ug/L		88	59 - 127	8	30
cis-1,2-Dichloroethene			50.0	48.5		ug/L		97	70 - 130	5	30
cis-1,3-Dichloropropene			50.0	51.8		ug/L		104	70 - 130	0	20
Cyclohexane			50.0	50.1		ug/L		100	23 - 175	0	30
Dibromochloromethane			50.0	48.8		ug/L		98	70 - 130	3	30
Dichlorodifluoromethane			50.0	40.7		ug/L		81	70 - 130	4	40
Ethylbenzene			50.0	44.5		ug/L		89	70 - 130	2	20
Isopropylbenzene			50.0	44.7		ug/L		89	70 - 130	2	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-800321/4
Matrix: Water
Analysis Batch: 800321

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m,p-Xylenes			50.0	50.2		ug/L		100	70 - 130	2	30
Methyl acetate			100	92.7		ug/L		93	67 - 120	0	30
Methyl tert-butyl ether			50.0	50.5		ug/L		101	70 - 130	3	30
Methylene Chloride			50.0	46.1		ug/L		92	70 - 130	6	30
o-Xylene			50.0	44.2		ug/L		88	70 - 130	2	30
Styrene			50.0	53.2		ug/L		106	70 - 130	3	30
Tetrachloroethene			50.0	51.3		ug/L		103	70 - 130	2	30
Toluene			50.0	53.4		ug/L		107	70 - 130	3	30
trans-1,2-Dichloroethene			50.0	51.0		ug/L		102	70 - 130	3	30
trans-1,3-Dichloropropene			50.0	50.2		ug/L		100	70 - 130	2	30
Trichloroethene			50.0	53.6		ug/L		107	70 - 130	1	30
Trichlorofluoromethane			50.0	55.6		ug/L		111	63 - 142	4	30
Vinyl chloride			50.0	46.1		ug/L		92	66 - 129	5	30
Xylenes, Total			100	94.4		ug/L		94	70 - 130	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 124*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
Dibromofluoromethane (Surr)	*98*		*70 - 130*
Toluene-d8 (Surr)	*113*		*70 - 130*

Lab Sample ID: LB 680-800294/1-A
Matrix: Water
Analysis Batch: 800533

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	LB Result	LB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	4.2	U	20	4.2	ug/L			10/02/23 14:31	20
1,1,2,2-Tetrachloroethane	8.0	U	20	8.0	ug/L			10/02/23 14:31	20
1,1,2-Trichloro-1,2,2-trifluoroethane	4.6	U	20	4.6	ug/L			10/02/23 14:31	20
1,1,2-Trichloroethane	6.4	U	20	6.4	ug/L			10/02/23 14:31	20
1,1-Dichloroethane	6.6	U	20	6.6	ug/L			10/02/23 14:31	20
1,1-Dichloroethene	6.6	U	20	6.6	ug/L			10/02/23 14:31	20
1,2,4-Trichlorobenzene	11	U	100	11	ug/L			10/02/23 14:31	20
1,2-Dibromo-3-Chloropropane	36	U	100	36	ug/L			10/02/23 14:31	20
1,2-Dibromoethane (EDB)	6.6	U	20	6.6	ug/L			10/02/23 14:31	20
1,2-Dichlorobenzene	6.2	U	20	6.2	ug/L			10/02/23 14:31	20
1,2-Dichloroethane	5.0	U	20	5.0	ug/L			10/02/23 14:31	20
1,2-Dichloropropane	4.4	U	20	4.4	ug/L			10/02/23 14:31	20
1,3-Dichlorobenzene	6.2	U	20	6.2	ug/L			10/02/23 14:31	20
1,4-Dichlorobenzene	6.2	U	20	6.2	ug/L			10/02/23 14:31	20
2-Butanone (MEK)	130	U	200	130	ug/L			10/02/23 14:31	20
2-Hexanone	64	U	200	64	ug/L			10/02/23 14:31	20
4-Methyl-2-pentanone	54	U	200	54	ug/L			10/02/23 14:31	20
Acetone	74	U	200	74	ug/L			10/02/23 14:31	20
Benzene	5.4	U	20	5.4	ug/L			10/02/23 14:31	20
Bromodichloromethane	5.0	U	20	5.0	ug/L			10/02/23 14:31	20
Bromoform	12	U	20	12	ug/L			10/02/23 14:31	20
Bromomethane	74	U	100	74	ug/L			10/02/23 14:31	20

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LB 680-800294/1-A
Matrix: Water
Analysis Batch: 800533

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	LB Result	LB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	8.6	U	40	8.6	ug/L			10/02/23 14:31	20
Carbon tetrachloride	6.0	U	20	6.0	ug/L			10/02/23 14:31	20
Chlorobenzene	3.0	U	20	3.0	ug/L			10/02/23 14:31	20
Chloroethane	92	U	100	92	ug/L			10/02/23 14:31	20
Chloroform	5.4	U	20	5.4	ug/L			10/02/23 14:31	20
Chloromethane	11	U	20	11	ug/L			10/02/23 14:31	20
cis-1,2-Dichloroethene	5.0	U	20	5.0	ug/L			10/02/23 14:31	20
cis-1,3-Dichloropropene	5.2	U	20	5.2	ug/L			10/02/23 14:31	20
Cyclohexane	5.6	U	20	5.6	ug/L			10/02/23 14:31	20
Dibromochloromethane	7.8	U	20	7.8	ug/L			10/02/23 14:31	20
Dichlorodifluoromethane	7.2	U	20	7.2	ug/L			10/02/23 14:31	20
Ethylbenzene	4.0	U	20	4.0	ug/L			10/02/23 14:31	20
Isopropylbenzene	5.2	U	20	5.2	ug/L			10/02/23 14:31	20
m,p-Xylenes	9.8	U	20	9.8	ug/L			10/02/23 14:31	20
Methyl acetate	64	U	100	64	ug/L			10/02/23 14:31	20
Methyl tert-butyl ether	16	U	100	16	ug/L			10/02/23 14:31	20
Methylene Chloride	64	U	100	64	ug/L			10/02/23 14:31	20
o-Xylene	5.2	U	20	5.2	ug/L			10/02/23 14:31	20
Styrene	5.4	U	20	5.4	ug/L			10/02/23 14:31	20
Tetrachloroethene	7.0	U	20	7.0	ug/L			10/02/23 14:31	20
Toluene	5.0	U	20	5.0	ug/L			10/02/23 14:31	20
trans-1,2-Dichloroethene	6.8	U	20	6.8	ug/L			10/02/23 14:31	20
trans-1,3-Dichloropropene	4.6	U	20	4.6	ug/L			10/02/23 14:31	20
Trichloroethene	4.0	U	20	4.0	ug/L			10/02/23 14:31	20
Trichlorofluoromethane	6.6	U	20	6.6	ug/L			10/02/23 14:31	20
Vinyl chloride	8.0	U	20	8.0	ug/L			10/02/23 14:31	20
Xylenes, Total	4.6	U	20	4.6	ug/L			10/02/23 14:31	20

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 124*		*10/02/23 14:31*	*20*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*		*10/02/23 14:31*	*20*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*10/02/23 14:31*	*20*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/02/23 14:31*	*20*

Lab Sample ID: MB 680-800533/10
Matrix: Water
Analysis Batch: 800533

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/02/23 14:07	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/02/23 14:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/02/23 14:07	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/02/23 14:07	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/02/23 14:07	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/02/23 14:07	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/02/23 14:07	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/02/23 14:07	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/02/23 14:07	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-800533/10
Matrix: Water
Analysis Batch: 800533

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/02/23 14:07	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/02/23 14:07	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/02/23 14:07	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/02/23 14:07	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/02/23 14:07	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/02/23 14:07	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/02/23 14:07	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/02/23 14:07	1
Acetone	3.7	U	10	3.7	ug/L			10/02/23 14:07	1
Benzene	0.27	U	1.0	0.27	ug/L			10/02/23 14:07	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/02/23 14:07	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/02/23 14:07	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/02/23 14:07	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/02/23 14:07	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/02/23 14:07	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/02/23 14:07	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/02/23 14:07	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/02/23 14:07	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/02/23 14:07	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/02/23 14:07	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/02/23 14:07	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/02/23 14:07	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/02/23 14:07	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/02/23 14:07	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/02/23 14:07	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/02/23 14:07	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/02/23 14:07	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/02/23 14:07	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/02/23 14:07	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/02/23 14:07	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/02/23 14:07	1
Styrene	0.27	U	1.0	0.27	ug/L			10/02/23 14:07	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/02/23 14:07	1
Toluene	0.25	U	1.0	0.25	ug/L			10/02/23 14:07	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/02/23 14:07	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/02/23 14:07	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/02/23 14:07	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/02/23 14:07	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/02/23 14:07	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/02/23 14:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 124*		*10/02/23 14:07*	*1*
4-Bromofluorobenzene (Surr)	*79*		*70 - 130*		*10/02/23 14:07*	*1*
Dibromofluoromethane (Surr)	*107*		*70 - 130*		*10/02/23 14:07*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/02/23 14:07*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-800533/4
Matrix: Water
Analysis Batch: 800533

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	52.1		ug/L		104	70 - 130
1,1,2,2-Tetrachloroethane	50.0	44.3		ug/L		89	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	54.5		ug/L		109	63 - 141
1,1,2-Trichloroethane	50.0	46.9		ug/L		94	70 - 130
1,1-Dichloroethane	50.0	47.4		ug/L		95	70 - 130
1,1-Dichloroethene	50.0	49.4		ug/L		99	70 - 130
1,2,4-Trichlorobenzene	50.0	43.6		ug/L		87	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	33.7	J3	ug/L		67	70 - 130
1,2-Dibromoethane (EDB)	50.0	49.5		ug/L		99	70 - 130
1,2-Dichlorobenzene	50.0	46.8		ug/L		94	70 - 130
1,2-Dichloroethane	50.0	51.8		ug/L		104	70 - 130
1,2-Dichloropropane	50.0	45.4		ug/L		91	70 - 130
1,3-Dichlorobenzene	50.0	47.1		ug/L		94	70 - 130
1,4-Dichlorobenzene	50.0	48.2		ug/L		96	70 - 130
2-Butanone (MEK)	250	204		ug/L		81	69 - 120
2-Hexanone	250	200		ug/L		80	70 - 130
4-Methyl-2-pentanone	250	214		ug/L		86	68 - 120
Acetone	250	194		ug/L		78	67 - 120
Benzene	50.0	47.9		ug/L		96	70 - 130
Bromodichloromethane	50.0	51.1		ug/L		102	70 - 130
Bromoform	50.0	50.9		ug/L		102	69 - 129
Bromomethane	50.0	103	J3	ug/L		206	28 - 192
Carbon disulfide	50.0	48.2		ug/L		96	70 - 130
Carbon tetrachloride	50.0	57.4		ug/L		115	70 - 130
Chlorobenzene	50.0	50.7		ug/L		101	70 - 130
Chloroethane	50.0	115	J3	ug/L		230	31 - 213
Chloroform	50.0	52.1		ug/L		104	70 - 130
Chloromethane	50.0	34.7		ug/L		69	59 - 127
cis-1,2-Dichloroethene	50.0	49.9		ug/L		100	70 - 130
cis-1,3-Dichloropropene	50.0	46.9		ug/L		94	70 - 130
Cyclohexane	50.0	46.8		ug/L		94	23 - 175
Dibromochloromethane	50.0	53.0		ug/L		106	70 - 130
Dichlorodifluoromethane	50.0	44.1		ug/L		88	70 - 130
Ethylbenzene	50.0	49.3		ug/L		99	70 - 130
Isopropylbenzene	50.0	49.4		ug/L		99	70 - 130
m,p-Xylenes	50.0	49.0		ug/L		98	70 - 130
Methyl acetate	100	70.4		ug/L		70	67 - 120
Methyl tert-butyl ether	50.0	48.0		ug/L		96	70 - 130
Methylene Chloride	50.0	52.3		ug/L		105	70 - 130
o-Xylene	50.0	48.5		ug/L		97	70 - 130
Styrene	50.0	48.8		ug/L		98	70 - 130
Tetrachloroethene	50.0	53.9		ug/L		108	70 - 130
Toluene	50.0	47.9		ug/L		96	70 - 130
trans-1,2-Dichloroethene	50.0	49.7		ug/L		99	70 - 130
trans-1,3-Dichloropropene	50.0	49.3		ug/L		99	70 - 130
Trichloroethene	50.0	51.3		ug/L		103	70 - 130
Trichlorofluoromethane	50.0	104	J3	ug/L		207	63 - 142
Vinyl chloride	50.0	43.8		ug/L		88	66 - 129

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-800533/4
Matrix: Water
Analysis Batch: 800533

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Xylenes, Total			100	97.5		ug/L		98	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*110*		*60 - 124*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*
Dibromofluoromethane (Surr)	*112*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 680-800533/5
Matrix: Water
Analysis Batch: 800533

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane			50.0	52.0		ug/L		104	70 - 130	0	30
1,1,2,2-Tetrachloroethane			50.0	44.5		ug/L		89	70 - 130	0	30
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	54.3		ug/L		109	63 - 141	0	30
1,1,2-Trichloroethane			50.0	46.2		ug/L		92	70 - 130	1	30
1,1-Dichloroethane			50.0	47.2		ug/L		94	70 - 130	1	30
1,1-Dichloroethene			50.0	49.4		ug/L		99	70 - 130	0	20
1,2,4-Trichlorobenzene			50.0	44.1		ug/L		88	70 - 130	1	30
1,2-Dibromo-3-Chloropropane			50.0	34.0	J3	ug/L		68	70 - 130	1	30
1,2-Dibromoethane (EDB)			50.0	49.6		ug/L		99	70 - 130	0	30
1,2-Dichlorobenzene			50.0	47.1		ug/L		94	70 - 130	1	30
1,2-Dichloroethane			50.0	52.6		ug/L		105	70 - 130	1	50
1,2-Dichloropropane			50.0	44.7		ug/L		89	70 - 130	2	20
1,3-Dichlorobenzene			50.0	46.9		ug/L		94	70 - 130	0	30
1,4-Dichlorobenzene			50.0	47.0		ug/L		94	70 - 130	3	30
2-Butanone (MEK)			250	214		ug/L		86	69 - 120	5	30
2-Hexanone			250	202		ug/L		81	70 - 130	1	20
4-Methyl-2-pentanone			250	217		ug/L		87	68 - 120	1	30
Acetone			250	195		ug/L		78	67 - 120	1	30
Benzene			50.0	47.5		ug/L		95	70 - 130	1	30
Bromodichloromethane			50.0	50.3		ug/L		101	70 - 130	2	30
Bromoform			50.0	50.8		ug/L		102	69 - 129	0	30
Bromomethane			50.0	102	J3	ug/L		205	28 - 192	1	30
Carbon disulfide			50.0	46.8		ug/L		94	70 - 130	3	30
Carbon tetrachloride			50.0	57.8		ug/L		116	70 - 130	1	30
Chlorobenzene			50.0	50.7		ug/L		101	70 - 130	0	30
Chloroethane			50.0	111	J3	ug/L		221	31 - 213	4	30
Chloroform			50.0	52.4		ug/L		105	70 - 130	1	30
Chloromethane			50.0	35.2		ug/L		70	59 - 127	2	30
cis-1,2-Dichloroethene			50.0	49.2		ug/L		98	70 - 130	2	30
cis-1,3-Dichloropropene			50.0	46.2		ug/L		92	70 - 130	1	20
Cyclohexane			50.0	47.1		ug/L		94	23 - 175	0	30
Dibromochloromethane			50.0	52.5		ug/L		105	70 - 130	1	30
Dichlorodifluoromethane			50.0	44.1		ug/L		88	70 - 130	0	40
Ethylbenzene			50.0	49.6		ug/L		99	70 - 130	1	20
Isopropylbenzene			50.0	49.5		ug/L		99	70 - 130	0	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-800533/5
Matrix: Water
Analysis Batch: 800533

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m,p-Xylenes			50.0	49.0		ug/L		98	70 - 130	0	30
Methyl acetate			100	73.0		ug/L		73	67 - 120	4	30
Methyl tert-butyl ether			50.0	47.1		ug/L		94	70 - 130	2	30
Methylene Chloride			50.0	51.8		ug/L		104	70 - 130	1	30
o-Xylene			50.0	48.5		ug/L		97	70 - 130	0	30
Styrene			50.0	48.3		ug/L		97	70 - 130	1	30
Tetrachloroethene			50.0	54.0		ug/L		108	70 - 130	0	30
Toluene			50.0	48.2		ug/L		96	70 - 130	0	30
trans-1,2-Dichloroethene			50.0	50.1		ug/L		100	70 - 130	1	30
trans-1,3-Dichloropropene			50.0	48.7		ug/L		97	70 - 130	1	30
Trichloroethene			50.0	51.9		ug/L		104	70 - 130	1	30
Trichlorofluoromethane			50.0	104	J3	ug/L		208	63 - 142	0	30
Vinyl chloride			50.0	44.3		ug/L		89	66 - 129	1	30
Xylenes, Total			100	97.5		ug/L		98	70 - 130	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*111*		*60 - 124*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*
Dibromofluoromethane (Surr)	*112*		*70 - 130*
Toluene-d8 (Surr)	*99*		*70 - 130*

Lab Sample ID: LB 680-801345/1-A
Matrix: Water
Analysis Batch: 801299

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	LB Result	LB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	4.2	U	20	4.2	ug/L			10/06/23 18:08	20
1,1,2,2-Tetrachloroethane	8.0	U	20	8.0	ug/L			10/06/23 18:08	20
1,1,2-Trichloro-1,2,2-trifluoroethane	4.6	U	20	4.6	ug/L			10/06/23 18:08	20
1,1,2-Trichloroethane	6.4	U	20	6.4	ug/L			10/06/23 18:08	20
1,1-Dichloroethane	6.6	U	20	6.6	ug/L			10/06/23 18:08	20
1,1-Dichloroethene	6.6	U	20	6.6	ug/L			10/06/23 18:08	20
1,2,4-Trichlorobenzene	11	U	100	11	ug/L			10/06/23 18:08	20
1,2-Dibromo-3-Chloropropane	36	U	100	36	ug/L			10/06/23 18:08	20
1,2-Dibromoethane (EDB)	6.6	U	20	6.6	ug/L			10/06/23 18:08	20
1,2-Dichlorobenzene	6.2	U	20	6.2	ug/L			10/06/23 18:08	20
1,2-Dichloroethane	5.0	U	20	5.0	ug/L			10/06/23 18:08	20
1,2-Dichloropropane	4.4	U	20	4.4	ug/L			10/06/23 18:08	20
1,3-Dichlorobenzene	6.2	U	20	6.2	ug/L			10/06/23 18:08	20
1,4-Dichlorobenzene	6.2	U	20	6.2	ug/L			10/06/23 18:08	20
2-Butanone (MEK)	130	U	200	130	ug/L			10/06/23 18:08	20
2-Hexanone	64	U	200	64	ug/L			10/06/23 18:08	20
4-Methyl-2-pentanone	54	U	200	54	ug/L			10/06/23 18:08	20
Acetone	74	U	200	74	ug/L			10/06/23 18:08	20
Benzene	5.4	U	20	5.4	ug/L			10/06/23 18:08	20
Bromodichloromethane	5.0	U	20	5.0	ug/L			10/06/23 18:08	20
Bromoform	12	U	20	12	ug/L			10/06/23 18:08	20
Bromomethane	74	U	100	74	ug/L			10/06/23 18:08	20

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LB 680-801345/1-A
Matrix: Water
Analysis Batch: 801299

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	LB Result	LB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	8.6	U	40	8.6	ug/L			10/06/23 18:08	20
Carbon tetrachloride	6.0	U	20	6.0	ug/L			10/06/23 18:08	20
Chlorobenzene	3.0	U	20	3.0	ug/L			10/06/23 18:08	20
Chloroethane	92	U	100	92	ug/L			10/06/23 18:08	20
Chloroform	5.4	U	20	5.4	ug/L			10/06/23 18:08	20
Chloromethane	11	U	20	11	ug/L			10/06/23 18:08	20
cis-1,2-Dichloroethene	11.7	I	20	5.0	ug/L			10/06/23 18:08	20
cis-1,3-Dichloropropene	5.2	U	20	5.2	ug/L			10/06/23 18:08	20
Cyclohexane	5.6	U	20	5.6	ug/L			10/06/23 18:08	20
Dibromochloromethane	7.8	U	20	7.8	ug/L			10/06/23 18:08	20
Dichlorodifluoromethane	7.2	U	20	7.2	ug/L			10/06/23 18:08	20
Ethylbenzene	4.0	U	20	4.0	ug/L			10/06/23 18:08	20
Isopropylbenzene	5.2	U	20	5.2	ug/L			10/06/23 18:08	20
m,p-Xylenes	9.8	U	20	9.8	ug/L			10/06/23 18:08	20
Methyl acetate	64	U	100	64	ug/L			10/06/23 18:08	20
Methyl tert-butyl ether	16	U	100	16	ug/L			10/06/23 18:08	20
Methylene Chloride	64	U	100	64	ug/L			10/06/23 18:08	20
o-Xylene	5.2	U	20	5.2	ug/L			10/06/23 18:08	20
Styrene	5.4	U	20	5.4	ug/L			10/06/23 18:08	20
Tetrachloroethene	7.0	U	20	7.0	ug/L			10/06/23 18:08	20
Toluene	5.0	U	20	5.0	ug/L			10/06/23 18:08	20
trans-1,2-Dichloroethene	6.8	U	20	6.8	ug/L			10/06/23 18:08	20
trans-1,3-Dichloropropene	4.6	U	20	4.6	ug/L			10/06/23 18:08	20
Trichloroethene	4.0	U	20	4.0	ug/L			10/06/23 18:08	20
Trichlorofluoromethane	6.6	U	20	6.6	ug/L			10/06/23 18:08	20
Vinyl chloride	8.0	U	20	8.0	ug/L			10/06/23 18:08	20
Xylenes, Total	4.6	U	20	4.6	ug/L			10/06/23 18:08	20

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*60 - 124*		*10/06/23 18:08*	*20*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*10/06/23 18:08*	*20*
Dibromofluoromethane (Surr)	*126*		*70 - 130*		*10/06/23 18:08*	*20*
Toluene-d8 (Surr)	*117*		*70 - 130*		*10/06/23 18:08*	*20*

Lab Sample ID: MB 680-801299/7
Matrix: Water
Analysis Batch: 801299

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/06/23 12:38	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/06/23 12:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/06/23 12:38	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/06/23 12:38	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/06/23 12:38	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/06/23 12:38	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/06/23 12:38	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/06/23 12:38	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/06/23 12:38	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-801299/7
Matrix: Water
Analysis Batch: 801299

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/06/23 12:38	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/06/23 12:38	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/06/23 12:38	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/06/23 12:38	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/06/23 12:38	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/06/23 12:38	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/06/23 12:38	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/06/23 12:38	1
Acetone	3.7	U	10	3.7	ug/L			10/06/23 12:38	1
Benzene	0.27	U	1.0	0.27	ug/L			10/06/23 12:38	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/06/23 12:38	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/06/23 12:38	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/06/23 12:38	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/06/23 12:38	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/06/23 12:38	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/06/23 12:38	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/06/23 12:38	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/06/23 12:38	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/06/23 12:38	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/06/23 12:38	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/06/23 12:38	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/06/23 12:38	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/06/23 12:38	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/06/23 12:38	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/06/23 12:38	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/06/23 12:38	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/06/23 12:38	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/06/23 12:38	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/06/23 12:38	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/06/23 12:38	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/06/23 12:38	1
Styrene	0.27	U	1.0	0.27	ug/L			10/06/23 12:38	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/06/23 12:38	1
Toluene	0.25	U	1.0	0.25	ug/L			10/06/23 12:38	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/06/23 12:38	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/06/23 12:38	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/06/23 12:38	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/06/23 12:38	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/06/23 12:38	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/06/23 12:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 124*		*10/06/23 12:38*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*10/06/23 12:38*	*1*
Dibromofluoromethane (Surr)	*125*		*70 - 130*		*10/06/23 12:38*	*1*
Toluene-d8 (Surr)	*119*		*70 - 130*		*10/06/23 12:38*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-801299/3
Matrix: Water
Analysis Batch: 801299

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	48.1		ug/L		96	70 - 130
1,1,2,2-Tetrachloroethane	50.0	46.7		ug/L		93	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	55.4		ug/L		111	63 - 141
1,1,2-Trichloroethane	50.0	45.0		ug/L		90	70 - 130
1,1-Dichloroethane	50.0	48.7		ug/L		97	70 - 130
1,1-Dichloroethene	50.0	54.6		ug/L		109	70 - 130
1,2,4-Trichlorobenzene	50.0	52.9		ug/L		106	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	46.7		ug/L		93	70 - 130
1,2-Dibromoethane (EDB)	50.0	48.4		ug/L		97	70 - 130
1,2-Dichlorobenzene	50.0	51.6		ug/L		103	70 - 130
1,2-Dichloroethane	50.0	46.5		ug/L		93	70 - 130
1,2-Dichloropropane	50.0	49.8		ug/L		100	70 - 130
1,3-Dichlorobenzene	50.0	49.8		ug/L		100	70 - 130
1,4-Dichlorobenzene	50.0	50.3		ug/L		101	70 - 130
2-Butanone (MEK)	250	249		ug/L		99	69 - 120
2-Hexanone	250	263		ug/L		105	70 - 130
4-Methyl-2-pentanone	250	226		ug/L		90	68 - 120
Acetone	250	233		ug/L		93	67 - 120
Benzene	50.0	48.0		ug/L		96	70 - 130
Bromodichloromethane	50.0	47.8		ug/L		96	70 - 130
Bromoform	50.0	48.6		ug/L		97	69 - 129
Bromomethane	50.0	44.9		ug/L		90	28 - 192
Carbon disulfide	50.0	47.6		ug/L		95	70 - 130
Carbon tetrachloride	50.0	49.5		ug/L		99	70 - 130
Chlorobenzene	50.0	50.0		ug/L		100	70 - 130
Chloroethane	50.0	50.6		ug/L		101	31 - 213
Chloroform	50.0	47.9		ug/L		96	70 - 130
Chloromethane	50.0	41.3		ug/L		83	59 - 127
cis-1,2-Dichloroethene	50.0	48.1		ug/L		96	70 - 130
cis-1,3-Dichloropropene	50.0	50.4		ug/L		101	70 - 130
Cyclohexane	50.0	48.7		ug/L		97	23 - 175
Dibromochloromethane	50.0	46.4		ug/L		93	70 - 130
Dichlorodifluoromethane	50.0	48.6		ug/L		97	70 - 130
Ethylbenzene	50.0	44.9		ug/L		90	70 - 130
Isopropylbenzene	50.0	45.5		ug/L		91	70 - 130
m,p-Xylenes	50.0	51.2		ug/L		102	70 - 130
Methyl acetate	100	82.9		ug/L		83	67 - 120
Methyl tert-butyl ether	50.0	51.6		ug/L		103	70 - 130
Methylene Chloride	50.0	47.6		ug/L		95	70 - 130
o-Xylene	50.0	44.8		ug/L		90	70 - 130
Styrene	50.0	54.3		ug/L		109	70 - 130
Tetrachloroethene	50.0	49.5		ug/L		99	70 - 130
Toluene	50.0	51.5		ug/L		103	70 - 130
trans-1,2-Dichloroethene	50.0	49.5		ug/L		99	70 - 130
trans-1,3-Dichloropropene	50.0	48.3		ug/L		97	70 - 130
Trichloroethene	50.0	53.1		ug/L		106	70 - 130
Trichlorofluoromethane	50.0	72.0	J3	ug/L		144	63 - 142
Vinyl chloride	50.0	48.0		ug/L		96	66 - 129

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-801299/3
Matrix: Water
Analysis Batch: 801299

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Xylenes, Total			100	96.0		ug/L		96	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 124*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*115*		*70 - 130*

Lab Sample ID: LCSD 680-801299/4
Matrix: Water
Analysis Batch: 801299

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane			50.0	46.6		ug/L		93	70 - 130	3	30
1,1,2,2-Tetrachloroethane			50.0	48.3		ug/L		97	70 - 130	4	30
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	52.8		ug/L		106	63 - 141	5	30
1,1,2-Trichloroethane			50.0	47.0		ug/L		94	70 - 130	4	30
1,1-Dichloroethane			50.0	48.8		ug/L		98	70 - 130	0	30
1,1-Dichloroethene			50.0	51.9		ug/L		104	70 - 130	5	20
1,2,4-Trichlorobenzene			50.0	52.6		ug/L		105	70 - 130	0	30
1,2-Dibromo-3-Chloropropane			50.0	49.3		ug/L		99	70 - 130	6	30
1,2-Dibromoethane (EDB)			50.0	50.1		ug/L		100	70 - 130	3	30
1,2-Dichlorobenzene			50.0	52.5		ug/L		105	70 - 130	2	30
1,2-Dichloroethane			50.0	48.2		ug/L		96	70 - 130	4	50
1,2-Dichloropropane			50.0	49.9		ug/L		100	70 - 130	0	20
1,3-Dichlorobenzene			50.0	49.8		ug/L		100	70 - 130	0	30
1,4-Dichlorobenzene			50.0	51.2		ug/L		102	70 - 130	2	30
2-Butanone (MEK)			250	256		ug/L		102	69 - 120	3	30
2-Hexanone			250	280		ug/L		112	70 - 130	6	20
4-Methyl-2-pentanone			250	239		ug/L		96	68 - 120	6	30
Acetone			250	247		ug/L		99	67 - 120	6	30
Benzene			50.0	48.4		ug/L		97	70 - 130	1	30
Bromodichloromethane			50.0	49.4		ug/L		99	70 - 130	3	30
Bromoform			50.0	49.2		ug/L		98	69 - 129	1	30
Bromomethane			50.0	46.2		ug/L		92	28 - 192	3	30
Carbon disulfide			50.0	46.7		ug/L		93	70 - 130	2	30
Carbon tetrachloride			50.0	49.1		ug/L		98	70 - 130	1	30
Chlorobenzene			50.0	50.4		ug/L		101	70 - 130	1	30
Chloroethane			50.0	47.6		ug/L		95	31 - 213	6	30
Chloroform			50.0	49.6		ug/L		99	70 - 130	3	30
Chloromethane			50.0	40.9		ug/L		82	59 - 127	1	30
cis-1,2-Dichloroethene			50.0	49.1		ug/L		98	70 - 130	2	30
cis-1,3-Dichloropropene			50.0	51.6		ug/L		103	70 - 130	2	20
Cyclohexane			50.0	47.1		ug/L		94	23 - 175	3	30
Dibromochloromethane			50.0	48.2		ug/L		96	70 - 130	4	30
Dichlorodifluoromethane			50.0	47.0		ug/L		94	70 - 130	3	40
Ethylbenzene			50.0	44.5		ug/L		89	70 - 130	1	20
Isopropylbenzene			50.0	45.2		ug/L		90	70 - 130	1	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-801299/4
Matrix: Water
Analysis Batch: 801299

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m,p-Xylenes	50.0	51.8		ug/L		104	70 - 130	1	30
Methyl acetate	100	89.8		ug/L		90	67 - 120	8	30
Methyl tert-butyl ether	50.0	53.2		ug/L		106	70 - 130	3	30
Methylene Chloride	50.0	48.4		ug/L		97	70 - 130	2	30
o-Xylene	50.0	45.1		ug/L		90	70 - 130	1	30
Styrene	50.0	55.4		ug/L		111	70 - 130	2	30
Tetrachloroethene	50.0	49.2		ug/L		98	70 - 130	1	30
Toluene	50.0	52.2		ug/L		104	70 - 130	1	30
trans-1,2-Dichloroethene	50.0	50.6		ug/L		101	70 - 130	2	30
trans-1,3-Dichloropropene	50.0	49.5		ug/L		99	70 - 130	3	30
Trichloroethene	50.0	53.4		ug/L		107	70 - 130	0	30
Trichlorofluoromethane	50.0	68.9		ug/L		138	63 - 142	4	30
Vinyl chloride	50.0	46.1		ug/L		92	66 - 129	4	30
Xylenes, Total	100	96.9		ug/L		97	70 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 124*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
Dibromofluoromethane (Surr)	*103*		*70 - 130*
Toluene-d8 (Surr)	*115*		*70 - 130*

Lab Sample ID: 680-240706-L-7-A MS
Matrix: Water
Analysis Batch: 800533

Client Sample ID: Matrix Spike
Prep Type: TCLP

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	4.2	U	1000	1040		ug/L		104	70 - 130
1,1,2,2-Tetrachloroethane	8.0	U	1000	935		ug/L		93	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	4.6	U	1000	1170		ug/L		117	63 - 141
1,1,2-Trichloroethane	6.4	U	1000	871		ug/L		87	70 - 130
1,1-Dichloroethane	6.6	U	1000	911		ug/L		91	70 - 130
1,1-Dichloroethene	6.6	U	1000	988		ug/L		99	70 - 130
1,2,4-Trichlorobenzene	11	U	1000	825		ug/L		83	70 - 130
1,2-Dibromo-3-Chloropropane	36	U J3	1000	632	J3	ug/L		63	70 - 130
1,2-Dibromoethane (EDB)	6.6	U	1000	937		ug/L		94	70 - 130
1,2-Dichlorobenzene	6.2	U	1000	926		ug/L		93	70 - 130
1,2-Dichloroethane	5.0	U	1000	984		ug/L		98	70 - 130
1,2-Dichloropropane	4.4	U	1000	861		ug/L		86	70 - 130
1,3-Dichlorobenzene	6.2	U	1000	926		ug/L		93	70 - 130
1,4-Dichlorobenzene	6.2	U	1000	937		ug/L		94	70 - 130
2-Butanone (MEK)	130	U	5000	3570		ug/L		71	69 - 120
2-Hexanone	64	U	5000	3940		ug/L		79	70 - 130
4-Methyl-2-pentanone	54	U	5000	4010		ug/L		80	68 - 120
Acetone	74	U	5000	3360		ug/L		67	67 - 120
Benzene	5.4	U	1000	925		ug/L		93	70 - 130
Bromodichloromethane	5.0	U	1000	959		ug/L		96	70 - 130
Bromoform	12	U	1000	1020		ug/L		102	69 - 129
Bromomethane	74	U J3	1000	1820		ug/L		182	28 - 192

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 680-240706-L-7-A MS
Matrix: Water
Analysis Batch: 800533

Client Sample ID: Matrix Spike
Prep Type: TCLP

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Carbon disulfide	8.6	U	1000	951		ug/L		95	70 - 130
Carbon tetrachloride	6.0	U	1000	1150		ug/L		115	70 - 130
Chlorobenzene	3.0	U	1000	1000		ug/L		100	70 - 130
Chloroethane	92	U J3	1000	2970	J3	ug/L		297	31 - 213
Chloroform	5.4	U	1000	1000		ug/L		100	70 - 130
Chloromethane	11	U	1000	596		ug/L		60	59 - 127
cis-1,2-Dichloroethene	5.0	U	1000	926		ug/L		93	70 - 130
cis-1,3-Dichloropropene	5.2	U	1000	855		ug/L		85	70 - 130
Cyclohexane	5.6	U	1000	951		ug/L		95	23 - 175
Dibromochloromethane	7.8	U	1000	993		ug/L		99	70 - 130
Dichlorodifluoromethane	7.2	U	1000	757		ug/L		76	70 - 130
Ethylbenzene	4.0	U	1000	987		ug/L		99	70 - 130
Isopropylbenzene	5.2	U	1000	981		ug/L		98	70 - 130
m,p-Xylenes	9.8	U	1000	962		ug/L		96	70 - 130
Methyl acetate	64	U J3	2000	1280	J3	ug/L		64	67 - 120
Methyl tert-butyl ether	16	U	1000	877		ug/L		88	70 - 130
Methylene Chloride	64	U	1000	998		ug/L		100	70 - 130
o-Xylene	5.2	U	1000	959		ug/L		96	70 - 130
Styrene	5.4	U	1000	960		ug/L		96	70 - 130
Tetrachloroethene	7.0	U	1000	1080		ug/L		108	70 - 130
Toluene	5.0	U	1000	925		ug/L		93	70 - 130
trans-1,2-Dichloroethene	6.8	U	1000	982		ug/L		98	70 - 130
trans-1,3-Dichloropropene	4.6	U	1000	882		ug/L		88	70 - 130
Trichloroethene	4.0	U	1000	1040		ug/L		104	70 - 130
Trichlorofluoromethane	6.6	U J3	1000	1540	J3	ug/L		154	63 - 142
Vinyl chloride	8.0	U	1000	770		ug/L		77	66 - 129
Xylenes, Total	4.6	U	2000	1920		ug/L		96	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 124*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*
Dibromofluoromethane (Surr)	*106*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*

Lab Sample ID: 680-240706-L-7-A MSD
Matrix: Water
Analysis Batch: 800533

Client Sample ID: Matrix Spike Duplicate
Prep Type: TCLP

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	4.2	U	1000	993		ug/L		99	70 - 130	4	30
1,1,2,2-Tetrachloroethane	8.0	U	1000	941		ug/L		94	70 - 130	1	30
1,1,2-Trichloro-1,2,2-trifluoroethane	4.6	U	1000	1090		ug/L		109	63 - 141	8	30
1,1,2-Trichloroethane	6.4	U	1000	892		ug/L		89	70 - 130	2	30
1,1-Dichloroethane	6.6	U	1000	873		ug/L		87	70 - 130	4	30
1,1-Dichloroethene	6.6	U	1000	931		ug/L		93	70 - 130	6	20
1,2,4-Trichlorobenzene	11	U	1000	865		ug/L		87	70 - 130	5	30
1,2-Dibromo-3-Chloropropane	36	U J3	1000	716		ug/L		72	70 - 130	12	30
1,2-Dibromoethane (EDB)	6.6	U	1000	965		ug/L		97	70 - 130	3	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 680-240706-L-7-A MSD
Matrix: Water
Analysis Batch: 800533

Client Sample ID: Matrix Spike Duplicate
Prep Type: TCLP

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dichlorobenzene	6.2	U	1000	941		ug/L		94	70 - 130	2	30
1,2-Dichloroethane	5.0	U	1000	984		ug/L		98	70 - 130	0	50
1,2-Dichloropropane	4.4	U	1000	847		ug/L		85	70 - 130	2	20
1,3-Dichlorobenzene	6.2	U	1000	894		ug/L		89	70 - 130	4	30
1,4-Dichlorobenzene	6.2	U	1000	914		ug/L		91	70 - 130	3	30
2-Butanone (MEK)	130	U	5000	3920		ug/L		78	69 - 120	9	30
2-Hexanone	64	U	5000	4140		ug/L		83	70 - 130	5	20
4-Methyl-2-pentanone	54	U	5000	4340		ug/L		87	68 - 120	8	30
Acetone	74	U	5000	3640		ug/L		73	67 - 120	8	30
Benzene	5.4	U	1000	894		ug/L		89	70 - 130	3	30
Bromodichloromethane	5.0	U	1000	965		ug/L		97	70 - 130	1	30
Bromoform	12	U	1000	1050		ug/L		105	69 - 129	3	30
Bromomethane	74	U J3	1000	2290	J3	ug/L		229	28 - 192	23	30
Carbon disulfide	8.6	U	1000	889		ug/L		89	70 - 130	7	30
Carbon tetrachloride	6.0	U	1000	1100		ug/L		110	70 - 130	5	30
Chlorobenzene	3.0	U	1000	971		ug/L		97	70 - 130	3	30
Chloroethane	92	U J3	1000	3840	J3	ug/L		384	31 - 213	26	30
Chloroform	5.4	U	1000	978		ug/L		98	70 - 130	2	30
Chloromethane	11	U	1000	789		ug/L		79	59 - 127	28	30
cis-1,2-Dichloroethene	5.0	U	1000	907		ug/L		91	70 - 130	2	30
cis-1,3-Dichloropropene	5.2	U	1000	857		ug/L		86	70 - 130	0	20
Cyclohexane	5.6	U	1000	886		ug/L		89	23 - 175	7	30
Dibromochloromethane	7.8	U	1000	1020		ug/L		102	70 - 130	3	30
Dichlorodifluoromethane	7.2	U	1000	987		ug/L		99	70 - 130	26	40
Ethylbenzene	4.0	U	1000	956		ug/L		96	70 - 130	3	20
Isopropylbenzene	5.2	U	1000	940		ug/L		94	70 - 130	4	30
m,p-Xylenes	9.8	U	1000	923		ug/L		92	70 - 130	4	30
Methyl acetate	64	U J3	2000	1410		ug/L		71	67 - 120	10	30
Methyl tert-butyl ether	16	U	1000	920		ug/L		92	70 - 130	5	30
Methylene Chloride	64	U	1000	991		ug/L		99	70 - 130	1	30
o-Xylene	5.2	U	1000	935		ug/L		94	70 - 130	2	30
Styrene	5.4	U	1000	934		ug/L		93	70 - 130	3	30
Tetrachloroethene	7.0	U	1000	1010		ug/L		101	70 - 130	6	30
Toluene	5.0	U	1000	890		ug/L		89	70 - 130	4	30
trans-1,2-Dichloroethene	6.8	U	1000	929		ug/L		93	70 - 130	6	30
trans-1,3-Dichloropropene	4.6	U	1000	906		ug/L		91	70 - 130	3	30
Trichloroethene	4.0	U	1000	992		ug/L		99	70 - 130	5	30
Trichlorofluoromethane	6.6	U J3	1000	2190	J3	ug/L		219	63 - 142	35	30
Vinyl chloride	8.0	U	1000	1000		ug/L		100	66 - 129	26	30
Xylenes, Total	4.6	U	2000	1860		ug/L		93	70 - 130	3	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 124*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*
Dibromofluoromethane (Surr)	*105*		*70 - 130*
Toluene-d8 (Surr)	*97*		*70 - 130*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 680-240985-D-1-A MS
Matrix: Water
Analysis Batch: 801299

Client Sample ID: Matrix Spike
Prep Type: TCLP

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	4.2	U J3	1000	547	J3	ug/L		55	70 - 130
1,1,2,2-Tetrachloroethane	8.0	U J3	1000	511	J3	ug/L		51	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	4.6	U	1000	685		ug/L		69	63 - 141
1,1,2-Trichloroethane	6.4	U J3	1000	505	J3	ug/L		51	70 - 130
1,1-Dichloroethane	6.6	U J3	1000	502	J3	ug/L		50	70 - 130
1,1-Dichloroethene	6.6	U J3	1000	574	J3	ug/L		57	70 - 130
1,2,4-Trichlorobenzene	11	U J3	1000	534	J3	ug/L		53	70 - 130
1,2-Dibromo-3-Chloropropane	36	U J3	1000	498	J3	ug/L		50	70 - 130
1,2-Dibromoethane (EDB)	6.6	U J3	1000	533	J3	ug/L		53	70 - 130
1,2-Dichlorobenzene	6.2	U J3	1000	524	J3	ug/L		52	70 - 130
1,2-Dichloroethane	5.0	U J3	1000	498	J3	ug/L		50	70 - 130
1,2-Dichloropropane	4.4	U J3	1000	539	J3	ug/L		54	70 - 130
1,3-Dichlorobenzene	6.2	U J3	1000	518	J3	ug/L		52	70 - 130
1,4-Dichlorobenzene	6.2	U J3	1000	509	J3	ug/L		51	70 - 130
2-Butanone (MEK)	130	U J3	5000	2030	J3	ug/L		41	69 - 120
2-Hexanone	64	U J3	5000	2800	J3	ug/L		56	70 - 130
4-Methyl-2-pentanone	54	U J3	5000	2550	J3	ug/L		51	68 - 120
Acetone	74	U J3	5000	2130	J3	ug/L		43	67 - 120
Benzene	5.4	U J3	1000	533	J3	ug/L		53	70 - 130
Bromodichloromethane	5.0	U J3	1000	534	J3	ug/L		53	70 - 130
Bromoform	12	U J3	1000	515	J3	ug/L		51	69 - 129
Bromomethane	74	U J3	1000	413		ug/L		41	28 - 192
Carbon disulfide	8.6	U J3	1000	517	J3	ug/L		52	70 - 130
Carbon tetrachloride	6.0	U J3	1000	573	J3	ug/L		57	70 - 130
Chlorobenzene	3.0	U J3	1000	521	J3	ug/L		52	70 - 130
Chloroethane	92	U	1000	730		ug/L		73	31 - 213
Chloroform	5.4	U J3	1000	518	J3	ug/L		52	70 - 130
Chloromethane	11	U J3	1000	298	J3	ug/L		30	59 - 127
cis-1,2-Dichloroethene	6.9	I J3	1000	518	J3	ug/L		51	70 - 130
cis-1,3-Dichloropropene	5.2	U J3	1000	553	J3	ug/L		55	70 - 130
Cyclohexane	5.6	U	1000	571		ug/L		57	23 - 175
Dibromochloromethane	7.8	U J3	1000	505	J3	ug/L		51	70 - 130
Dichlorodifluoromethane	7.2	U J3	1000	354	J3	ug/L		35	70 - 130
Ethylbenzene	4.0	U J3	1000	476	J3	ug/L		48	70 - 130
Isopropylbenzene	5.2	U J3	1000	485	J3	ug/L		49	70 - 130
m,p-Xylenes	140	J3	1000	597	J3	ug/L		46	70 - 130
Methyl acetate	64	U J3	2000	891	J3	ug/L		45	67 - 120
Methyl tert-butyl ether	16	U J3	1000	632	J3	ug/L		63	70 - 130
Methylene Chloride	64	U J3	1000	484	J3	ug/L		48	70 - 130
o-Xylene	77	J3	1000	505	J3	ug/L		43	70 - 130
Styrene	5.4	U J3	1000	552	J3	ug/L		55	70 - 130
Tetrachloroethene	7.0	U J3	1000	564	J3	ug/L		56	70 - 130
Toluene	5.0	U J3	1000	554	J3	ug/L		55	70 - 130
trans-1,2-Dichloroethene	6.8	U J3	1000	544	J3	ug/L		54	70 - 130
trans-1,3-Dichloropropene	4.6	U J3	1000	524	J3	ug/L		52	70 - 130
Trichloroethene	4.0	U J3	1000	597	J3	ug/L		60	70 - 130
Trichlorofluoromethane	6.6	U J3	1000	584	J3	ug/L		58	63 - 142
Vinyl chloride	8.0	U J3	1000	338	J3	ug/L		34	66 - 129

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 680-240985-D-1-A MS
Matrix: Water
Analysis Batch: 801299

Client Sample ID: Matrix Spike
Prep Type: TCLP

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Xylenes, Total	220	J3	2000	1100	J3	ug/L		44	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 124*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
Dibromofluoromethane (Surr)	*103*		*70 - 130*
Toluene-d8 (Surr)	*115*		*70 - 130*

Lab Sample ID: 680-240985-D-1-A MSD
Matrix: Water
Analysis Batch: 801299

Client Sample ID: Matrix Spike Duplicate
Prep Type: TCLP

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	4.2	U J3	1000	613	J3	ug/L		61	70 - 130	11	30
1,1,2,2-Tetrachloroethane	8.0	U J3	1000	591	J3	ug/L		59	70 - 130	14	30
1,1,2-Trichloro-1,2,2-trifluoroethane	4.6	U	1000	750		ug/L		75	63 - 141	9	30
1,1,2-Trichloroethane	6.4	U J3	1000	597	J3	ug/L		60	70 - 130	17	30
1,1-Dichloroethane	6.6	U J3	1000	594	J3	ug/L		59	70 - 130	17	30
1,1-Dichloroethene	6.6	U J3	1000	682	J3	ug/L		68	70 - 130	17	20
1,2,4-Trichlorobenzene	11	U J3	1000	628	J3	ug/L		63	70 - 130	16	30
1,2-Dibromo-3-Chloropropane	36	U J3	1000	622	J3	ug/L		62	70 - 130	22	30
1,2-Dibromoethane (EDB)	6.6	U J3	1000	635	J3	ug/L		64	70 - 130	18	30
1,2-Dichlorobenzene	6.2	U J3	1000	598	J3	ug/L		60	70 - 130	13	30
1,2-Dichloroethane	5.0	U J3	1000	587	J3	ug/L		59	70 - 130	16	50
1,2-Dichloropropane	4.4	U J3	1000	629	J3	ug/L		63	70 - 130	15	20
1,3-Dichlorobenzene	6.2	U J3	1000	582	J3	ug/L		58	70 - 130	12	30
1,4-Dichlorobenzene	6.2	U J3	1000	577	J3	ug/L		58	70 - 130	13	30
2-Butanone (MEK)	130	U J3	5000	2520	J3	ug/L		50	69 - 120	21	30
2-Hexanone	64	U J3	5000	3280	J3	ug/L		66	70 - 130	15	20
4-Methyl-2-pentanone	54	U J3	5000	2940	J3	ug/L		59	68 - 120	14	30
Acetone	74	U J3	5000	2520	J3	ug/L		50	67 - 120	17	30
Benzene	5.4	U J3	1000	606	J3	ug/L		61	70 - 130	13	30
Bromodichloromethane	5.0	U J3	1000	613	J3	ug/L		61	70 - 130	14	30
Bromoform	12	U J3	1000	610	J3	ug/L		61	69 - 129	17	30
Bromomethane	74	U J3	1000	575	J3	ug/L		57	28 - 192	33	30
Carbon disulfide	8.6	U J3	1000	573	J3	ug/L		57	70 - 130	10	30
Carbon tetrachloride	6.0	U J3	1000	641	J3	ug/L		64	70 - 130	11	30
Chlorobenzene	3.0	U J3	1000	587	J3	ug/L		59	70 - 130	12	30
Chloroethane	92	U	1000	637		ug/L		64	31 - 213	14	30
Chloroform	5.4	U J3	1000	588	J3	ug/L		59	70 - 130	13	30
Chloromethane	11	U J3	1000	545	J3	ug/L		55	59 - 127	58	30
cis-1,2-Dichloroethene	6.9	I J3	1000	591	J3	ug/L		58	70 - 130	13	30
cis-1,3-Dichloropropene	5.2	U J3	1000	640	J3	ug/L		64	70 - 130	15	20
Cyclohexane	5.6	U	1000	639		ug/L		64	23 - 175	11	30
Dibromochloromethane	7.8	U J3	1000	603	J3	ug/L		60	70 - 130	18	30
Dichlorodifluoromethane	7.2	U J3	1000	681	J3	ug/L		68	70 - 130	63	40
Ethylbenzene	4.0	U J3	1000	523	J3	ug/L		52	70 - 130	10	20
Isopropylbenzene	5.2	U J3	1000	535	J3	ug/L		54	70 - 130	10	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 680-240985-D-1-A MSD
Matrix: Water
Analysis Batch: 801299

Client Sample ID: Matrix Spike Duplicate
Prep Type: TCLP

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m,p-Xylenes	140	J3	1000	643	J3	ug/L		50	70 - 130	7	30
Methyl acetate	64	U J3	2000	1090	J3	ug/L		55	67 - 120	20	30
Methyl tert-butyl ether	16	U J3	1000	718		ug/L		72	70 - 130	13	30
Methylene Chloride	64	U J3	1000	566	J3	ug/L		57	70 - 130	16	30
o-Xylene	77	J3	1000	555	J3	ug/L		48	70 - 130	9	30
Styrene	5.4	U J3	1000	628	J3	ug/L		63	70 - 130	13	30
Tetrachloroethene	7.0	U J3	1000	642	J3	ug/L		64	70 - 130	13	30
Toluene	5.0	U J3	1000	631	J3	ug/L		63	70 - 130	13	30
trans-1,2-Dichloroethene	6.8	U J3	1000	610	J3	ug/L		61	70 - 130	11	30
trans-1,3-Dichloropropene	4.6	U J3	1000	614	J3	ug/L		61	70 - 130	16	30
Trichloroethene	4.0	U J3	1000	694	J3	ug/L		69	70 - 130	15	30
Trichlorofluoromethane	6.6	U J3	1000	1080	J3	ug/L		108	63 - 142	59	30
Vinyl chloride	8.0	U J3	1000	625	J3	ug/L		63	66 - 129	59	30
Xylenes, Total	220	J3	2000	1200	J3	ug/L		49	70 - 130	8	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 124*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
Dibromofluoromethane (Surr)	*107*		*70 - 130*
Toluene-d8 (Surr)	*110*		*70 - 130*

GC/MS VOA

Analysis Batch: 800234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-27160-1	LC34-DPT0919-034.0-20230919	Total/NA	Water	8260D	
670-27160-2	LC34-DPT0919-038.0-20230919	Total/NA	Water	8260D	
670-27160-3	LC34-DPT0920-008.0-20230919	Total/NA	Water	8260D	
670-27160-4	LC34-DPT00920-013.0-20230919	Total/NA	Water	8260D	
670-27160-5	LC34-DPT0920-018.0-20230919	Total/NA	Water	8260D	
670-27160-6	LC34-DPT0920-025.0-20230919	Total/NA	Water	8260D	
670-27160-7	LC34-DPT0920-034.0-20230919	Total/NA	Water	8260D	
670-27160-8	LC34-DPT0920-38.0-20230919	Total/NA	Water	8260D	
MB 680-800234/10	Method Blank	Total/NA	Water	8260D	
LCS 680-800234/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-800234/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Leach Batch: 800294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 680-800294/1-A	Method Blank	Total/NA	Water	1311	
680-240706-L-7-A MS	Matrix Spike	TCLP	Water	1311	
680-240706-L-7-A MSD	Matrix Spike Duplicate	TCLP	Water	1311	

Analysis Batch: 800321

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-27160-10	LC34-DPT0921-013.0-20230920	Total/NA	Water	8260D	
670-27160-11	LC34-DPT0921-018.0-20230920	Total/NA	Water	8260D	
670-27160-12	LC34-DPT0921-025.0-20230920	Total/NA	Water	8260D	
670-27160-13	LC34-DPT0921-034.0-20230920	Total/NA	Water	8260D	
670-27160-14	LC34-DPT0921-038.0-20230920	Total/NA	Water	8260D	
670-27160-15	LC34-DPT0922-008.0-20230920	Total/NA	Water	8260D	
670-27160-17	LC34-DPT0922-018.0-20230920	Total/NA	Water	8260D	
670-27160-18	LC34-DPT0922-025.0-20230920	Total/NA	Water	8260D	
670-27160-19	LC34-DPT0922-034.0-20230920	Total/NA	Water	8260D	
670-27160-20	LC34-DPT0922-038.0-20230920	Total/NA	Water	8260D	
670-27160-23	LC34-DPT0923-018.0-20230920	Total/NA	Water	8260D	
670-27160-24	LC34-DPT0923-025.0-20230920	Total/NA	Water	8260D	
MB 680-800321/7	Method Blank	Total/NA	Water	8260D	
LCS 680-800321/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-800321/4	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 800533

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-27160-9	LC34-DPT0921-008.0-20230920	Total/NA	Water	8260D	
670-27160-11	LC34-DPT0921-018.0-20230920	Total/NA	Water	8260D	
670-27160-12	LC34-DPT0921-025.0-20230920	Total/NA	Water	8260D	
670-27160-13	LC34-DPT0921-034.0-20230920	Total/NA	Water	8260D	
670-27160-14	LC34-DPT0921-038.0-20230920	Total/NA	Water	8260D	
670-27160-15	LC34-DPT0922-008.0-20230920	Total/NA	Water	8260D	
670-27160-16	LC34-DPT0922-013.0-20230920	Total/NA	Water	8260D	
670-27160-17	LC34-DPT0922-018.0-20230920	Total/NA	Water	8260D	
670-27160-18	LC34-DPT0922-025.0-20230920	Total/NA	Water	8260D	
670-27160-19	LC34-DPT0922-034.0-20230920	Total/NA	Water	8260D	
670-27160-20	LC34-DPT0922-038.0-20230920	Total/NA	Water	8260D	
670-27160-21	LC34-DPT0923-008.0-20230920	Total/NA	Water	8260D	
670-27160-22	LC34-DPT0923-013.0-20230920	Total/NA	Water	8260D	

GC/MS VOA (Continued)

Analysis Batch: 800533 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-27160-23	LC34-DPT0923-018.0-20230920	Total/NA	Water	8260D	
670-27160-24	LC34-DPT0923-025.0-20230920	Total/NA	Water	8260D	
670-27160-25	LC34-DPT0923-034.0-20230920	Total/NA	Water	8260D	
670-27160-26	LC34-DPT0923-038.0-20230920	Total/NA	Water	8260D	
LB 680-800294/1-A	Method Blank	Total/NA	Water	8260D	800294
MB 680-800533/10	Method Blank	Total/NA	Water	8260D	
LCS 680-800533/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-800533/5	Lab Control Sample Dup	Total/NA	Water	8260D	
680-240706-L-7-A MS	Matrix Spike	TCLP	Water	8260D	800294
680-240706-L-7-A MSD	Matrix Spike Duplicate	TCLP	Water	8260D	800294

Analysis Batch: 800923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-27160-17 - DL	LC34-DPT0922-018.0-20230920	Total/NA	Water	8260D	
670-27160-18 - DL	LC34-DPT0922-025.0-20230920	Total/NA	Water	8260D	
670-27160-23 - DL	LC34-DPT0923-018.0-20230920	Total/NA	Water	8260D	
670-27160-24 - DL	LC34-DPT0923-025.0-20230920	Total/NA	Water	8260D	

Analysis Batch: 801299

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-27160-6 - RADL	LC34-DPT0920-025.0-20230919	Total/NA	Water	8260D	
LB 680-801345/1-A	Method Blank	Total/NA	Water	8260D	801345
MB 680-801299/7	Method Blank	Total/NA	Water	8260D	
LCS 680-801299/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-801299/4	Lab Control Sample Dup	Total/NA	Water	8260D	
680-240985-D-1-A MS	Matrix Spike	TCLP	Water	8260D	801345
680-240985-D-1-A MSD	Matrix Spike Duplicate	TCLP	Water	8260D	801345

Leach Batch: 801345

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 680-801345/1-A	Method Blank	Total/NA	Water	1311	
680-240985-D-1-A MS	Matrix Spike	TCLP	Water	1311	
680-240985-D-1-A MSD	Matrix Spike Duplicate	TCLP	Water	1311	

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27160-1

Client Sample ID: LC34-DPT0919-034.0-20230919
Lab Sample ID: 670-27160-1
Date Collected: 09/19/23 13:55
Matrix: Water
Date Received: 09/21/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		10	800234	Y1S	EET SAV	09/29/23 20:19

Client Sample ID: LC34-DPT0919-038.0-20230919
Lab Sample ID: 670-27160-2
Date Collected: 09/19/23 14:15
Matrix: Water
Date Received: 09/21/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	800234	Y1S	EET SAV	09/29/23 18:22

Client Sample ID: LC34-DPT0920-008.0-20230919
Lab Sample ID: 670-27160-3
Date Collected: 09/19/23 14:50
Matrix: Water
Date Received: 09/21/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	800234	Y1S	EET SAV	09/29/23 18:46

Client Sample ID: LC34-DPT00920-013.0-20230919
Lab Sample ID: 670-27160-4
Date Collected: 09/19/23 15:05
Matrix: Water
Date Received: 09/21/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		10	800234	Y1S	EET SAV	09/29/23 21:29

Client Sample ID: LC34-DPT0920-018.0-20230919
Lab Sample ID: 670-27160-5
Date Collected: 09/19/23 15:20
Matrix: Water
Date Received: 09/21/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		50	800234	Y1S	EET SAV	09/29/23 19:32

Client Sample ID: LC34-DPT0920-025.0-20230919
Lab Sample ID: 670-27160-6
Date Collected: 09/19/23 15:35
Matrix: Water
Date Received: 09/21/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		5	800234	Y1S	EET SAV	09/29/23 19:55
Total/NA	Analysis	8260D	RADL	100	801299	Y1S	EET SAV	10/06/23 16:06

Client Sample ID: LC34-DPT0920-034.0-20230919
Lab Sample ID: 670-27160-7
Date Collected: 09/19/23 15:55
Matrix: Water
Date Received: 09/21/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		10	800234	Y1S	EET SAV	09/29/23 20:42

Client Sample ID: LC34-DPT0920-38.0-20230919
Lab Sample ID: 670-27160-8
Date Collected: 09/19/23 16:15
Matrix: Water
Date Received: 09/21/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	800234	Y1S	EET SAV	09/29/23 19:09

Client Sample ID: LC34-DPT0921-008.0-20230920
Lab Sample ID: 670-27160-9
Date Collected: 09/20/23 08:25
Matrix: Water
Date Received: 09/21/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		50	800533	Y1S	EET SAV	10/02/23 20:20

Client Sample ID: LC34-DPT0921-013.0-20230920
Lab Sample ID: 670-27160-10
Date Collected: 09/20/23 08:40
Matrix: Water
Date Received: 09/21/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		2	800321	Y1S	EET SAV	09/29/23 16:48

Client Sample ID: LC34-DPT0921-018.0-20230920
Lab Sample ID: 670-27160-11
Date Collected: 09/20/23 08:55
Matrix: Water
Date Received: 09/21/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	800533	Y1S	EET SAV	10/02/23 16:04
Total/NA	Analysis	8260D		1	800321	Y1S	EET SAV	09/29/23 17:08

Client Sample ID: LC34-DPT0921-025.0-20230920
Lab Sample ID: 670-27160-12
Date Collected: 09/20/23 09:10
Matrix: Water
Date Received: 09/21/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	800533	Y1S	EET SAV	10/02/23 16:27
Total/NA	Analysis	8260D		1	800321	Y1S	EET SAV	09/29/23 17:28

Client Sample ID: LC34-DPT0921-034.0-20230920
Lab Sample ID: 670-27160-13
Date Collected: 09/20/23 09:25
Matrix: Water
Date Received: 09/21/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	800533	Y1S	EET SAV	10/02/23 16:50
Total/NA	Analysis	8260D		1	800321	Y1S	EET SAV	09/29/23 17:48

Client Sample ID: LC34-DPT0921-038.0-20230920
Lab Sample ID: 670-27160-14
Date Collected: 09/20/23 09:45
Matrix: Water
Date Received: 09/21/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	800533	Y1S	EET SAV	10/02/23 17:13

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27160-1

Client Sample ID: LC34-DPT0921-038.0-20230920
Lab Sample ID: 670-27160-14
Date Collected: 09/20/23 09:45
Matrix: Water
Date Received: 09/21/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	800321	Y1S	EET SAV	09/29/23 18:08

Client Sample ID: LC34-DPT0922-008.0-20230920
Lab Sample ID: 670-27160-15
Date Collected: 09/20/23 10:15
Matrix: Water
Date Received: 09/21/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	800533	Y1S	EET SAV	10/02/23 17:37
Total/NA	Analysis	8260D		1	800321	Y1S	EET SAV	09/29/23 18:28

Client Sample ID: LC34-DPT0922-013.0-20230920
Lab Sample ID: 670-27160-16
Date Collected: 09/20/23 10:30
Matrix: Water
Date Received: 09/21/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		5	800533	Y1S	EET SAV	10/02/23 20:44

Client Sample ID: LC34-DPT0922-018.0-20230920
Lab Sample ID: 670-27160-17
Date Collected: 09/20/23 10:45
Matrix: Water
Date Received: 09/21/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	800533	Y1S	EET SAV	10/02/23 19:57
Total/NA	Analysis	8260D		1	800321	Y1S	EET SAV	09/29/23 19:11
Total/NA	Analysis	8260D	DL	25	800923	Y1S	EET SAV	10/04/23 20:12

Client Sample ID: LC34-DPT0922-025.0-20230920
Lab Sample ID: 670-27160-18
Date Collected: 09/20/23 11:00
Matrix: Water
Date Received: 09/21/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	800533	Y1S	EET SAV	10/02/23 18:00
Total/NA	Analysis	8260D		1	800321	Y1S	EET SAV	09/29/23 19:31
Total/NA	Analysis	8260D	DL	25	800923	Y1S	EET SAV	10/04/23 19:27

Client Sample ID: LC34-DPT0922-034.0-20230920
Lab Sample ID: 670-27160-19
Date Collected: 09/20/23 11:15
Matrix: Water
Date Received: 09/21/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	800533	Y1S	EET SAV	10/02/23 18:24
Total/NA	Analysis	8260D		1	800321	Y1S	EET SAV	09/29/23 19:51

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27160-1

Client Sample ID: LC34-DPT0922-038.0-20230920
Lab Sample ID: 670-27160-20
Date Collected: 09/20/23 11:35
Matrix: Water
Date Received: 09/21/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	800533	Y1S	EET SAV	10/02/23 18:47
Total/NA	Analysis	8260D		1	800321	Y1S	EET SAV	09/29/23 20:11

Client Sample ID: LC34-DPT0923-008.0-20230920
Lab Sample ID: 670-27160-21
Date Collected: 09/20/23 12:45
Matrix: Water
Date Received: 09/21/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		2	800533	Y1S	EET SAV	10/02/23 21:07

Client Sample ID: LC34-DPT0923-013.0-20230920
Lab Sample ID: 670-27160-22
Date Collected: 09/20/23 13:00
Matrix: Water
Date Received: 09/21/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		5	800533	Y1S	EET SAV	10/02/23 21:30

Client Sample ID: LC34-DPT0923-018.0-20230920
Lab Sample ID: 670-27160-23
Date Collected: 09/20/23 13:15
Matrix: Water
Date Received: 09/21/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	800533	Y1S	EET SAV	10/02/23 19:10
Total/NA	Analysis	8260D		1	800321	Y1S	EET SAV	09/29/23 21:16
Total/NA	Analysis	8260D	DL	25	800923	Y1S	EET SAV	10/04/23 19:49

Client Sample ID: LC34-DPT0923-025.0-20230920
Lab Sample ID: 670-27160-24
Date Collected: 09/20/23 13:30
Matrix: Water
Date Received: 09/21/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	800533	Y1S	EET SAV	10/02/23 19:33
Total/NA	Analysis	8260D		1	800321	Y1S	EET SAV	09/29/23 21:36
Total/NA	Analysis	8260D	DL	25	800923	Y1S	EET SAV	10/04/23 19:05

Client Sample ID: LC34-DPT0923-034.0-20230920
Lab Sample ID: 670-27160-25
Date Collected: 09/20/23 13:45
Matrix: Water
Date Received: 09/21/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		2	800533	Y1S	EET SAV	10/02/23 21:54

Lab Chronicle

Client: Tetra Tech, Inc.
Job ID: 670-27160-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT0923-038.0-20230920
Lab Sample ID: 670-27160-26
Date Collected: 09/20/23 14:05
Matrix: Water
Date Received: 09/21/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		10	800533	Y1S	EET SAV	10/02/23 22:17

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: Tetra Tech, Inc.
Job ID: 670-27160-1
Project/Site: NASA KSC LC34 DPT

Laboratory: Eurofins Savannah

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
	AFCEE	SAVLAB	
Alabama	State	41450	06-30-24
ANAB	Dept. of Defense ELAP	L2463	10-26-23
Arkansas (DW)	State	GA00006	06-30-24
Arkansas DEQ	State	19-015-0	02-01-24
California	State	2939	06-30-24
Florida	NELAP	E87052	11-09-23
Georgia	State	E87052	06-30-24
Georgia (DW)	State	803	11-29-23
Guam	State	19-007R	04-17-24
Hawaii	State	<cert No.>	06-30-24
Illinois	NELAP	200022	11-14-23
Indiana	State	C-GA-02	06-30-24
Iowa	State	353	07-01-25
Kentucky (UST)	State	NA	06-30-24
Louisiana	NELAP	30690	06-30-24
Louisiana (All)	NELAP	30690	06-30-24
Louisiana (DW)	State	LA009	12-31-23
Maine	State	GA00006	09-25-24
Maryland	State	250	11-20-23
Massachusetts	State	M-GA006	01-03-24
Michigan	State	9925	06-30-24
Mississippi	State	<cert No.>	06-30-24
Nebraska	State	NE-OS-7-04	06-30-24
New Jersey	NELAP	GA769	06-30-24
New Mexico	State	GA00006	12-06-23
North Carolina (DW)	State	13701	07-31-24
North Carolina (WW/SW)	State	269	12-31-23
Pennsylvania	NELAP	68-00474	06-30-24
Puerto Rico	State	GA00006	12-05-23
South Carolina	State	98001	10-24-23
Tennessee	State	TN02961	06-30-24
Texas	NELAP	T1047004185	11-30-23
Texas	TCEQ Water Supply	T104704185	06-30-24
USDA	US Federal Programs	P330-18-00313	09-03-24
Virginia	NELAP	460161	06-14-24
Wyoming	State	8TMS-L	06-30-24

Method Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27160-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET SAV
5030B	Purge and Trap	SW846	EET SAV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Sample Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27160-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
670-27160-1	LC34-DPT0919-034.0-20230919	Water	09/19/23 13:55	09/21/23 08:00
670-27160-2	LC34-DPT0919-038.0-20230919	Water	09/19/23 14:15	09/21/23 08:00
670-27160-3	LC34-DPT0920-008.0-20230919	Water	09/19/23 14:50	09/21/23 08:00
670-27160-4	LC34-DPT00920-013.0-20230919	Water	09/19/23 15:05	09/21/23 08:00
670-27160-5	LC34-DPT0920-018.0-20230919	Water	09/19/23 15:20	09/21/23 08:00
670-27160-6	LC34-DPT0920-025.0-20230919	Water	09/19/23 15:35	09/21/23 08:00
670-27160-7	LC34-DPT0920-034.0-20230919	Water	09/19/23 15:55	09/21/23 08:00
670-27160-8	LC34-DPT0920-38.0-20230919	Water	09/19/23 16:15	09/21/23 08:00
670-27160-9	LC34-DPT0921-008.0-20230920	Water	09/20/23 08:25	09/21/23 08:00
670-27160-10	LC34-DPT0921-013.0-20230920	Water	09/20/23 08:40	09/21/23 08:00
670-27160-11	LC34-DPT0921-018.0-20230920	Water	09/20/23 08:55	09/21/23 08:00
670-27160-12	LC34-DPT0921-025.0-20230920	Water	09/20/23 09:10	09/21/23 08:00
670-27160-13	LC34-DPT0921-034.0-20230920	Water	09/20/23 09:25	09/21/23 08:00
670-27160-14	LC34-DPT0921-038.0-20230920	Water	09/20/23 09:45	09/21/23 08:00
670-27160-15	LC34-DPT0922-008.0-20230920	Water	09/20/23 10:15	09/21/23 08:00
670-27160-16	LC34-DPT0922-013.0-20230920	Water	09/20/23 10:30	09/21/23 08:00
670-27160-17	LC34-DPT0922-018.0-20230920	Water	09/20/23 10:45	09/21/23 08:00
670-27160-18	LC34-DPT0922-025.0-20230920	Water	09/20/23 11:00	09/21/23 08:00
670-27160-19	LC34-DPT0922-034.0-20230920	Water	09/20/23 11:15	09/21/23 08:00
670-27160-20	LC34-DPT0922-038.0-20230920	Water	09/20/23 11:35	09/21/23 08:00
670-27160-21	LC34-DPT0923-008.0-20230920	Water	09/20/23 12:45	09/21/23 08:00
670-27160-22	LC34-DPT0923-013.0-20230920	Water	09/20/23 13:00	09/21/23 08:00
670-27160-23	LC34-DPT0923-018.0-20230920	Water	09/20/23 13:15	09/21/23 08:00
670-27160-24	LC34-DPT0923-025.0-20230920	Water	09/20/23 13:30	09/21/23 08:00
670-27160-25	LC34-DPT0923-034.0-20230920	Water	09/20/23 13:45	09/21/23 08:00
670-27160-26	LC34-DPT0923-038.0-20230920	Water	09/20/23 14:05	09/21/23 08:00

Tetra Tech, Inc. CHAIN OF CUSTODY NUMBER No. 3714 PAGE 1 OF 2

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G0-185	NSCL	Mark Jones	(412) 921-3622	Eurofins - Pittsburgh, Attn:
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER	PHONE NUMBER	ADDRESS
- Chuck Sorden		Chuck Sorden	(321) 591-7580	481 Newburyport Ave
		CARRIER/WAYBILL NUMBER		CITY, STATE
				Altamonte Springs, FL

STANDARD TAT ☒
RUSH TAT ☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2023	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)										COMMENTS
									G	G									
									PRESERVATIVE USED										
									TYPE OF ANALYSIS										
									8260D - (MOD) VOA List										
									537.1m List										
									8270D - (MOD) NAPs List										
19	1355	L634-DPT0919-034.0-20230919	13	32	36	GW	G	4	X	X									
	1415	L634-DPT0919-038.0-20230919	13	36	40														
	1450	L634-DPT0920-008.0-20230919	06	6	10														
	1505	L634-DPT0920-013.0-20230919		11	15														
	1520	L634-DPT0920-018.0-20230919		16	20														
	1535	L634-DPT0920-025.0-20230919		23	27														
	1555	L634-DPT0920-034.0-20230919		32	36														
19	1615	L634-DPT0920-038.0-20230919	06	36	40														
20	0825	L634-DPT0921-008.0-20230920	07	6	16														
	0840	L634-DPT0921-013.0-20230920		11	15														
	0855	L634-DPT0921-018.0-20230920		16	20														
	0910	L634-DPT0921-025.0-20230920		23	27														
09 20	0925	L634-DPT0921-034.0-20230920	07	32	36	GW	G	4	X	X									

670-27160 Chain of Custody

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	09/20/23	1430	1. RECEIVED BY	09-20-23	19:30
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY MC	9/21/23	8:00
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS 0.8 / 0.3

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY) 4/02R FORM NO. TtNUS-001

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Tetra Tech, Inc. CHAIN OF CUSTODY | NUMBER No. 3715 | PAGE 2 OF 2

PROJECT NO: 112G0x94x	FACILITY Kings LC34	PROJECT MANAGER [illegible]	PHONE NUMBER (112) [illegible]
SAMPLERS (SIGNATURE) - Chuck Sanders		FIELD OPERATIONS LEADER Chuck Sanders	PHONE NUMBER (321) 511-75[illegible]
		CARRIER/WAYBILL NUMBER	
LABORATORY NAME AND CONTACT: Eurofins - Kathy Robinson			
ADDRESS 481 Newberry Ave.			
CITY, STATE Altamonte Springs, FL			

STANDARD TAT ☒ RUSH TAT ☐ 24 hr ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2023	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G): G	PRESERVATIVE USED: N/A	TYPE OF ANALYSIS: 82.600 - (MOD) MASS LC34 CUSTOM	82.600 - (MOD) MASS LC 34 [illegible]	COMMENTS
09/20	0945	LC34-DPT0922-038.0-20230920	07	36	40	GW	G	4	X	X			
	1015	LC34-DPT0922-008.0-20230920	14	6	10								
	1030	LC34-DPT0922-015.0-20230920		11	15								
	1045	LC34-DPT0922-018.0-20230920		16	20								
	1100	LC34-DPT0922-025.0-20230920		23	27								
	1115	LC34-DPT0922-034.0-20230920		32	36								
	1135	LC34-DPT0922-038.0-20230920	14	36	40								
	1245	LC34-DPT0923-008.0-20230920	21	6	10								
	1300	LC34-DPT0923-015.0-20230920		11	15								
	1315	LC34-DPT0923-018.0-20230920		16	20								
	1330	LC34-DPT0923-025.0-20230920		23	27								
	1345	LC34-DPT0923-034.0-20230920		32	36								
09/20	1405	LC34-DPT0923-038.0-20230920	21	36	40	GW	G	4	X	X			

1. RELINQUISHED BY	DATE 09/20/23	TIME 1430	1. RECEIVED BY	DATE 9-20-23	TIME 14:30
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY ML	DATE 9/21/23	TIME 8:00
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS 0.8/0.3

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY) 4/02R FORM NO. TtNUS-001

5 96

Eurofins Orlando
481 Newburyport Avenue
Altamonte Springs, FL 32701
Phone: 407-339-5984 Fax: 407-260-6110

Chain of Custody Record

eurofins

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Dylnicki, Kaitlin	Carrier Tracking No(s):	COC No: 670-15514.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: kaitlin.dylnicki@et.eurofinsus.com	State of Origin: Florida	Page: Page 1 of 3
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP - Florida		Job #: 670-27160-1
Address: 5102 LaRoche Avenue, ,	Due Date Requested: 10/3/2023			
City: Savannah	TAT Requested (days):			
State, Zip: GA, 31404				
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	PO #:			
Email:	WO #:			
Project Name: NASA KSC LC34 DPT	Project #: 67001156			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D/5030B (MOD) NASA LC34 Custom	8260D/5030B_UP (MOD) NASA LC34 Custom	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
LC34-DPT0919-034.0-20230919 (670-27160-1)	9/19/23	13:55 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0919-038.0-20230919 (670-27160-2)	9/19/23	04:15 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0920-008.0-20230919 (670-27160-3)	9/19/23	14:50 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT00920-013.0-20230919 (670-27160-4)	9/19/23	15:05 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0920-018.0-20230919 (670-27160-5)	9/19/23	15:20 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0920-025.0-20230919 (670-27160-6)	9/19/23	15:35 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0920-034.0-20230919 (670-27160-7)	9/19/23	15:55 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0920-38.0-20230919 (670-27160-8)	9/19/23	16:15 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0921-008.0-20230920 (670-27160-9)	9/20/23	08:25 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	9/21 1515				
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: C.Mm	Date/Time: 9/22/23 1002	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.4/3.5

Eurofins Orlando
481 Newburyport Avenue
Altamonte Springs, FL 32701
Phone: 407-339-5984 Fax: 407-260-6110

Chain of Custody Record

eurofins
Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Dylnicki, Kaitlin	Carrier Tracking No(s):	COC No: 670-15514.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: kaitlin.dylnicki@et.eurofinsus.com	State of Origin: Florida	Page: Page 2 of 3
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP - Florida		Job #: 670-27160-1
Address: 5102 LaRoche Avenue, ,	Due Date Requested: 10/3/2023			
City: Savannah	TAT Requested (days):			
State, Zip: GA, 31404				
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	PO #:			
Email:	WO #:			
Project Name: NASA KSC LC34 DPT	Project #: 67001156			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D/5030B (MOD) NASA LC34 Custom	8260D/5030B_UP (MOD) NASA LC34 Custom	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
LC34-DPT0921-013.0-20230920 (670-27160-10)	9/20/23	08:40 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0921-018.0-20230920 (670-27160-11)	9/20/23	08:55 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0921-025.0-20230920 (670-27160-12)	9/20/23	09:10 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0921-034.0-20230920 (670-27160-13)	9/20/23	09:25 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0921-038.0-20230920 (670-27160-14)	9/20/23	09:45 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0922-008.0-20230920 (670-27160-15)	9/20/23	10:15 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0922-013.0-20230920 (670-27160-16)	9/20/23	10:30 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0922-018.0-20230920 (670-27160-17)	9/20/23	10:45 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0922-025.0-20230920 (670-27160-18)	9/20/23	11:00 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	9/21 1515				
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 9/22/23 1002	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.4/3.5

Eurofins Orlando
481 Newburyport Avenue
Altamonte Springs, FL 32701
Phone: 407-339-5984 Fax: 407-260-6110

Chain of Custody Record

eurofins

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Dylnicki, Kaitlin	Carrier Tracking No(s):	COC No: 670-15514.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: kaitlin.dylnicki@et.eurofinsus.com	State of Origin: Florida	Page: Page 3 of 3
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP - Florida		Job #: 670-27160-1
Address: 5102 LaRoche Avenue, ,	Due Date Requested: 10/3/2023			
City: Savannah	TAT Requested (days):			
State, Zip: GA, 31404				
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	PO #:			
Email:	WO #:			
Project Name: NASA KSC LC34 DPT	Project #: 67001156			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D/5030B (MOD) NASA LC34 Custom	8260D/5030B_UP (MOD) NASA LC34 Custom	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
LC34-DPT0922-034.0-20230920 (670-27160-19)	9/20/23	11:15 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0922-038.0-20230920 (670-27160-20)	9/20/23	11:35 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0923-008.0-20230920 (670-27160-21)	9/20/23	12:45 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0923-013.0-20230920 (670-27160-22)	9/20/23	13:00 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0923-018.0-20230920 (670-27160-23)	9/20/23	13:15 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0923-025.0-20230920 (670-27160-24)	9/20/23	13:30 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0923-034.0-20230920 (670-27160-25)	9/20/23	13:45 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0923-038.0-20230920 (670-27160-26)	9/20/23	14:05 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 9/22/23 1515	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: C. Mmu	Date/Time: 9/22/23 1002	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.4/3.5

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 670-27160-1

Login Number: 27160
List Number: 1
Creator: Clerisier, Meline

List Source: Eurofins Orlando

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 670-27160-1

Login Number: 27160
List Number: 2
Creator: Munro, Caroline

List Source: Eurofins Savannah
List Creation: 09/22/23 02:37 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Mark Jonnet
Tetra Tech, Inc.
Foster Plaza 7
661 Anderson Drive
Suite 200
Pittsburgh, Pennsylvania 15220-2745

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JOB DESCRIPTION

NASA KSC LC34 DPT

JOB NUMBER

670-27244-1

Eurofins Orlando
481 Newburyport Avenue
Altamonte Springs FL 32701

See page two for job notes and contact information.

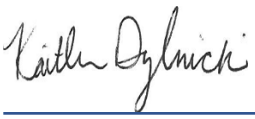
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Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization



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Authorized for release by
Kaitlin Dylnicki, Project Manager
kaitlin.dylnicki@et.eurofinsus.com
(407)339-5984

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Definitions/Glossary

Client: Tetra Tech, Inc.
Job ID: 670-27244-1
Project/Site: NASA KSC LC34 DPT

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
U	Indicates that the compound was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 670-27244-1

Laboratory: Eurofins Orlando

Narrative

Job Narrative
Client: Tetra Tech
Client PM: Mark Jonnet
Project: NASA KSC LC34
Project Number: 112G08985
670-27244-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 9/22/2023 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.3°C

GC/MS VOA
Method 8260D: The continuing calibration verification (CCV) analyzed in batch 680-800524 was outside the method criteria for the following analyte(s): Acetone, Bromomethane, Chloroethane and Vinyl chloride. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8260D: The following sample was diluted to bring the concentration of target analytes within the calibration range: LC34-DPT0927-013.0-20230921 (670-27244-20). Elevated reporting limits (RLs) are provided.

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-800524.

Method 8260D: The continuing calibration verification (CCV) associated with batch 680-800743 recovered above the upper control limit for Bromomethane, Chloroethane and Trichlorofluoromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260D: The continuing calibration verification (CCV) associated with batch 680-800743 recovered outside acceptance criteria, low biased, for 1,2-Dibromo-3-Chloropropane, 2-Hexanone, Acetone, Chloromethane, Dichlorodifluoromethane and Methyl acetate. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

Method 8260D: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 680-800743 recovered outside control limits for the following analytes: Trichlorofluoromethane. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Method 8260D: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for analytical batch 680-800743 recovered outside control limits for the following analyte(s): 1,2-Dibromo-3-Chloropropane. 1,2-Dibromo-3-Chloropropane have been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260D: The laboratory control sample duplicate (LCSD) for analytical batch 680-800743 recovered outside control limits for the

Job ID: 670-27244-1 (Continued)

Laboratory: Eurofins Orlando (Continued)

following analytes: Chloroethane. This analyte was biased high in the LCSD and was not detected in the associated samples; therefore, the data have been reported.

Method 8260D: The method blank for 1,2,4-Trichlorobenzene contained <AffectedAnalytes> above the detection limit (DL). None of the samples associated with this method blank contained the target compound; therefore, re-extraction and/or re-analysis of samples were not performed.

Method 8260D: The following samples were diluted to bring the concentration of target analytes within the calibration range: LC34-DPT0924-013.0-20230920 (670-27244-2), LC34-DPT0924-018.0-20230920 (670-27244-3), LC34-DPT0925-018.0-20230921 (670-27244-9), LC34-DPT0925-025.0-20230921 (670-27244-10), LC34-DPT0926-018.0-20230921 (670-27244-15), LC34-DPT0926-025.0-20230921 (670-27244-16), LC34-DPT0927-018.0-20230921 (670-27244-21) and LC34-DPT0927-025.0-20230921 (670-27244-22). Elevated reporting limits (RLs) are provided.

Method 8260D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 680-800161 and analytical batch 680-800743 were outside control limits. Sample matrix interference is suspected.

Method 8260D: The following sample was analyzed at a dilution factor based on screening data. There was insufficient volume to analyze the sample at a lower dilution so the data was reported.LC34-DPT0924-025.0-20230920 (670-27244-4)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27244-1

Client Sample ID: LC34-DPT0924-008.0-20230920 — Lab Sample ID: 670-27244-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	15		1.0	0.25	ug/L	1		8260D	Total/NA
Toluene	1.2		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	21		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0924-013.0-20230920 — Lab Sample ID: 670-27244-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	90		2.0	0.50	ug/L	2		8260D	Total/NA
trans-1,2-Dichloroethene	0.81	I	2.0	0.68	ug/L	2		8260D	Total/NA
Trichloroethene	0.65	I	2.0	0.40	ug/L	2		8260D	Total/NA
Vinyl chloride	40		2.0	0.80	ug/L	2		8260D	Total/NA

Client Sample ID: LC34-DPT0924-018.0-20230920 — Lab Sample ID: 670-27244-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	880		10	2.5	ug/L	10		8260D	Total/NA
trans-1,2-Dichloroethene	10		10	3.4	ug/L	10		8260D	Total/NA
Vinyl chloride	140		10	4.0	ug/L	10		8260D	Total/NA

Client Sample ID: LC34-DPT0924-025.0-20230920 — Lab Sample ID: 670-27244-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	90		10	2.5	ug/L	10		8260D	Total/NA

Client Sample ID: LC34-DPT0924-034.0-20230920 — Lab Sample ID: 670-27244-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	1.1	I	2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.50	I	1.0	0.25	ug/L	1		8260D	Total/NA
Toluene	0.69	I	1.0	0.25	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0924-038.0-20230920 — Lab Sample ID: 670-27244-6

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	1.4	I	2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.51	I	1.0	0.25	ug/L	1		8260D	Total/NA
Toluene	0.43	I	1.0	0.25	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0925-008.0-20230921 — Lab Sample ID: 670-27244-7

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	13		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	14		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0-925-013.0-20230921 — Lab Sample ID: 670-27244-8

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.58	I	2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	72		1.0	0.25	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	0.89	I	1.0	0.34	ug/L	1		8260D	Total/NA
Vinyl chloride	48		1.0	0.40	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27244-1

Client Sample ID: LC34-DPT0925-018.0-20230921 — Lab Sample ID: 670-27244-9

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	870		10	2.5	ug/L	10		8260D	Total/NA
trans-1,2-Dichloroethene	6.1	I	10	3.4	ug/L	10		8260D	Total/NA
Vinyl chloride	240		10	4.0	ug/L	10		8260D	Total/NA

Client Sample ID: LC34-DPT0925-025.0-20230921 — Lab Sample ID: 670-27244-10

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	140		2.0	0.50	ug/L	2		8260D	Total/NA
Vinyl chloride	6.1		2.0	0.80	ug/L	2		8260D	Total/NA

Client Sample ID: LC34-DPT0925-034.0-20230921 — Lab Sample ID: 670-27244-11

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.95	I	2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.37	I	1.0	0.25	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0925-038.0-20230921 — Lab Sample ID: 670-27244-12

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.61	I	2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.47	I	1.0	0.25	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0926-008.0-20230921 — Lab Sample ID: 670-27244-13

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	5.6		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	5.6		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0926-013.020230921 — Lab Sample ID: 670-27244-14

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.68	I	2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	34		1.0	0.25	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	0.52	I	1.0	0.34	ug/L	1		8260D	Total/NA
Vinyl chloride	21		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0926-018.0-20230921 — Lab Sample ID: 670-27244-15

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	420		5.0	1.3	ug/L	5		8260D	Total/NA
trans-1,2-Dichloroethene	7.3		5.0	1.7	ug/L	5		8260D	Total/NA
Vinyl chloride	200		5.0	2.0	ug/L	5		8260D	Total/NA

Client Sample ID: LC34-DPT0926-025.0-20230921 — Lab Sample ID: 670-27244-16

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1300		25	6.3	ug/L	25		8260D	Total/NA
Vinyl chloride	130		25	10	ug/L	25		8260D	Total/NA

Client Sample ID: LC34-DPT0926-034.020230921 — Lab Sample ID: 670-27244-17

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	53		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	8.8		1.0	0.40	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Orlando

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27244-1

Client Sample ID: LC34-DPT0926-038.0-20230921 — Lab Sample ID: 670-27244-18

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.33	I	1.0	0.25	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0927-008.0-20230921 — Lab Sample ID: 670-27244-19

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	1.4	I	2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	5.8		1.0	0.25	ug/L	1		8260D	Total/NA
Toluene	0.41	I	1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	6.8		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0927-013.0-20230921 — Lab Sample ID: 670-27244-20

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	66		5.0	1.3	ug/L	5		8260D	Total/NA
Vinyl chloride	340		5.0	2.0	ug/L	5		8260D	Total/NA

Client Sample ID: LC34-DPT0927-018.0-20230921 — Lab Sample ID: 670-27244-21

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	330		5.0	1.3	ug/L	5		8260D	Total/NA
trans-1,2-Dichloroethene	5.5		5.0	1.7	ug/L	5		8260D	Total/NA
Vinyl chloride	210		5.0	2.0	ug/L	5		8260D	Total/NA

Client Sample ID: LC34-DPT0927-025.0-20230921 — Lab Sample ID: 670-27244-22

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	820		10	2.5	ug/L	10		8260D	Total/NA
trans-1,2-Dichloroethene	9.5	I	10	3.4	ug/L	10		8260D	Total/NA
Vinyl chloride	180		10	4.0	ug/L	10		8260D	Total/NA

Client Sample ID: LC34-DPT0927-034.0-20230921 — Lab Sample ID: 670-27244-23

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.58	I	2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	85		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	11		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0927-038.0-20230921 — Lab Sample ID: 670-27244-24

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Orlando

Client: Tetra Tech, Inc.
Job ID: 670-27244-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT0924-008.0-20230920
Lab Sample ID: 670-27244-1
Date Collected: 09/20/23 15:10
Matrix: Water
Date Received: 09/22/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/02/23 12:38	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/02/23 12:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/02/23 12:38	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/02/23 12:38	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/02/23 12:38	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/02/23 12:38	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/02/23 12:38	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/02/23 12:38	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/02/23 12:38	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/02/23 12:38	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/02/23 12:38	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/02/23 12:38	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/02/23 12:38	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/02/23 12:38	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/02/23 12:38	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/02/23 12:38	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/02/23 12:38	1
Acetone	3.7	U	10	3.7	ug/L			10/02/23 12:38	1
Benzene	0.27	U	1.0	0.27	ug/L			10/02/23 12:38	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/02/23 12:38	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/02/23 12:38	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/02/23 12:38	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/02/23 12:38	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/02/23 12:38	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/02/23 12:38	1
Chloroethane	4.6	U J3	5.0	4.6	ug/L			10/02/23 12:38	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/02/23 12:38	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/02/23 12:38	1
cis-1,2-Dichloroethene	**15**		1.0	0.25	ug/L			10/02/23 12:38	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/02/23 12:38	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/02/23 12:38	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/02/23 12:38	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/02/23 12:38	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/02/23 12:38	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/02/23 12:38	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/02/23 12:38	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/02/23 12:38	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/02/23 12:38	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/02/23 12:38	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/02/23 12:38	1
Styrene	0.27	U	1.0	0.27	ug/L			10/02/23 12:38	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/02/23 12:38	1
Toluene	**1.2**		1.0	0.25	ug/L			10/02/23 12:38	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/02/23 12:38	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/02/23 12:38	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/02/23 12:38	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/02/23 12:38	1
Vinyl chloride	**21**		1.0	0.40	ug/L			10/02/23 12:38	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/02/23 12:38	1

Client Sample ID: LC34-DPT0924-008.0-20230920
Lab Sample ID: 670-27244-1

Date Collected: 09/20/23 15:10
Matrix: Water
Date Received: 09/22/23 08:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 124*		*10/02/23 12:38*	*1*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*10/02/23 12:38*	*1*
Dibromofluoromethane (Surr)	*108*		*70 - 130*		*10/02/23 12:38*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*10/02/23 12:38*	*1*

Client Sample ID: LC34-DPT0924-013.0-20230920
Lab Sample ID: 670-27244-2

Date Collected: 09/20/23 15:25
Matrix: Water
Date Received: 09/22/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.42	U	2.0	0.42	ug/L			10/03/23 19:53	2
1,1,2,2-Tetrachloroethane	0.80	U	2.0	0.80	ug/L			10/03/23 19:53	2
1,1,2-Trichloro-1,2,2-trifluoroethane	0.46	U	2.0	0.46	ug/L			10/03/23 19:53	2
1,1,2-Trichloroethane	0.64	U	2.0	0.64	ug/L			10/03/23 19:53	2
1,1-Dichloroethane	0.66	U	2.0	0.66	ug/L			10/03/23 19:53	2
1,1-Dichloroethene	0.66	U	2.0	0.66	ug/L			10/03/23 19:53	2
1,2,4-Trichlorobenzene	1.1	U	10	1.1	ug/L			10/03/23 19:53	2
1,2-Dibromo-3-Chloropropane	3.6	U J3	10	3.6	ug/L			10/03/23 19:53	2
1,2-Dibromoethane (EDB)	0.66	U	2.0	0.66	ug/L			10/03/23 19:53	2
1,2-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/03/23 19:53	2
1,2-Dichloroethane	0.50	U	2.0	0.50	ug/L			10/03/23 19:53	2
1,2-Dichloropropane	0.44	U	2.0	0.44	ug/L			10/03/23 19:53	2
1,3-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/03/23 19:53	2
1,4-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/03/23 19:53	2
2-Butanone (MEK)	13	U	20	13	ug/L			10/03/23 19:53	2
2-Hexanone	6.4	U	20	6.4	ug/L			10/03/23 19:53	2
4-Methyl-2-pentanone	5.4	U	20	5.4	ug/L			10/03/23 19:53	2
Acetone	7.4	U	20	7.4	ug/L			10/03/23 19:53	2
Benzene	0.54	U	2.0	0.54	ug/L			10/03/23 19:53	2
Bromodichloromethane	0.50	U	2.0	0.50	ug/L			10/03/23 19:53	2
Bromoform	1.2	U	2.0	1.2	ug/L			10/03/23 19:53	2
Bromomethane	7.4	U	10	7.4	ug/L			10/03/23 19:53	2
Carbon disulfide	0.86	U	4.0	0.86	ug/L			10/03/23 19:53	2
Carbon tetrachloride	0.60	U	2.0	0.60	ug/L			10/03/23 19:53	2
Chlorobenzene	0.30	U	2.0	0.30	ug/L			10/03/23 19:53	2
Chloroethane	9.2	U J3	10	9.2	ug/L			10/03/23 19:53	2
Chloroform	0.54	U	2.0	0.54	ug/L			10/03/23 19:53	2
Chloromethane	1.1	U	2.0	1.1	ug/L			10/03/23 19:53	2
cis-1,2-Dichloroethene	**90**		2.0	0.50	ug/L			10/03/23 19:53	2
cis-1,3-Dichloropropene	0.52	U	2.0	0.52	ug/L			10/03/23 19:53	2
Cyclohexane	0.56	U	2.0	0.56	ug/L			10/03/23 19:53	2
Dibromochloromethane	0.78	U	2.0	0.78	ug/L			10/03/23 19:53	2
Dichlorodifluoromethane	0.72	U	2.0	0.72	ug/L			10/03/23 19:53	2
Ethylbenzene	0.40	U	2.0	0.40	ug/L			10/03/23 19:53	2
Isopropylbenzene	0.52	U	2.0	0.52	ug/L			10/03/23 19:53	2
m,p-Xylenes	0.98	U	2.0	0.98	ug/L			10/03/23 19:53	2
Methyl acetate	6.4	U	10	6.4	ug/L			10/03/23 19:53	2
Methyl tert-butyl ether	1.6	U	10	1.6	ug/L			10/03/23 19:53	2
Methylene Chloride	6.4	U	10	6.4	ug/L			10/03/23 19:53	2

Client Sample ID: LC34-DPT0924-013.0-20230920
Lab Sample ID: 670-27244-2

Date Collected: 09/20/23 15:25
Matrix: Water
Date Received: 09/22/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	0.52	U	2.0	0.52	ug/L			10/03/23 19:53	2
Styrene	0.54	U	2.0	0.54	ug/L			10/03/23 19:53	2
Tetrachloroethene	0.70	U	2.0	0.70	ug/L			10/03/23 19:53	2
Toluene	0.50	U	2.0	0.50	ug/L			10/03/23 19:53	2
trans-1,2-Dichloroethene	**0.81**	**I**	2.0	0.68	ug/L			10/03/23 19:53	2
trans-1,3-Dichloropropene	0.46	U	2.0	0.46	ug/L			10/03/23 19:53	2
Trichloroethene	**0.65**	**I**	2.0	0.40	ug/L			10/03/23 19:53	2
Trichlorofluoromethane	0.66	U J3	2.0	0.66	ug/L			10/03/23 19:53	2
Vinyl chloride	**40**		2.0	0.80	ug/L			10/03/23 19:53	2
Xylenes, Total	0.46	U	2.0	0.46	ug/L			10/03/23 19:53	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 124*		*10/03/23 19:53*	*2*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*		*10/03/23 19:53*	*2*
Dibromofluoromethane (Surr)	*108*		*70 - 130*		*10/03/23 19:53*	*2*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/03/23 19:53*	*2*

Client Sample ID: LC34-DPT0924-018.0-20230920
Lab Sample ID: 670-27244-3

Date Collected: 09/20/23 15:40
Matrix: Water
Date Received: 09/22/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2.1	U	10	2.1	ug/L			10/03/23 20:16	10
1,1,2,2-Tetrachloroethane	4.0	U	10	4.0	ug/L			10/03/23 20:16	10
1,1,2-Trichloro-1,2,2-trifluoroethane	2.3	U	10	2.3	ug/L			10/03/23 20:16	10
1,1,2-Trichloroethane	3.2	U	10	3.2	ug/L			10/03/23 20:16	10
1,1-Dichloroethane	3.3	U	10	3.3	ug/L			10/03/23 20:16	10
1,1-Dichloroethene	3.3	U	10	3.3	ug/L			10/03/23 20:16	10
1,2,4-Trichlorobenzene	5.3	U	50	5.3	ug/L			10/03/23 20:16	10
1,2-Dibromo-3-Chloropropane	18	U J3	50	18	ug/L			10/03/23 20:16	10
1,2-Dibromoethane (EDB)	3.3	U	10	3.3	ug/L			10/03/23 20:16	10
1,2-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/03/23 20:16	10
1,2-Dichloroethane	2.5	U	10	2.5	ug/L			10/03/23 20:16	10
1,2-Dichloropropane	2.2	U	10	2.2	ug/L			10/03/23 20:16	10
1,3-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/03/23 20:16	10
1,4-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/03/23 20:16	10
2-Butanone (MEK)	64	U	100	64	ug/L			10/03/23 20:16	10
2-Hexanone	32	U	100	32	ug/L			10/03/23 20:16	10
4-Methyl-2-pentanone	27	U	100	27	ug/L			10/03/23 20:16	10
Acetone	37	U	100	37	ug/L			10/03/23 20:16	10
Benzene	2.7	U	10	2.7	ug/L			10/03/23 20:16	10
Bromodichloromethane	2.5	U	10	2.5	ug/L			10/03/23 20:16	10
Bromoform	5.9	U	10	5.9	ug/L			10/03/23 20:16	10
Bromomethane	37	U	50	37	ug/L			10/03/23 20:16	10
Carbon disulfide	4.3	U	20	4.3	ug/L			10/03/23 20:16	10
Carbon tetrachloride	3.0	U	10	3.0	ug/L			10/03/23 20:16	10
Chlorobenzene	1.5	U	10	1.5	ug/L			10/03/23 20:16	10
Chloroethane	46	U J3	50	46	ug/L			10/03/23 20:16	10
Chloroform	2.7	U	10	2.7	ug/L			10/03/23 20:16	10

Client Sample ID: LC34-DPT0924-018.0-20230920
Lab Sample ID: 670-27244-3

Date Collected: 09/20/23 15:40
Matrix: Water
Date Received: 09/22/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	5.4	U	10	5.4	ug/L			10/03/23 20:16	10
cis-1,2-Dichloroethene	**880**		10	2.5	ug/L			10/03/23 20:16	10
cis-1,3-Dichloropropene	2.6	U	10	2.6	ug/L			10/03/23 20:16	10
Cyclohexane	2.8	U	10	2.8	ug/L			10/03/23 20:16	10
Dibromochloromethane	3.9	U	10	3.9	ug/L			10/03/23 20:16	10
Dichlorodifluoromethane	3.6	U	10	3.6	ug/L			10/03/23 20:16	10
Ethylbenzene	2.0	U	10	2.0	ug/L			10/03/23 20:16	10
Isopropylbenzene	2.6	U	10	2.6	ug/L			10/03/23 20:16	10
m,p-Xylenes	4.9	U	10	4.9	ug/L			10/03/23 20:16	10
Methyl acetate	32	U	50	32	ug/L			10/03/23 20:16	10
Methyl tert-butyl ether	8.1	U	50	8.1	ug/L			10/03/23 20:16	10
Methylene Chloride	32	U	50	32	ug/L			10/03/23 20:16	10
o-Xylene	2.6	U	10	2.6	ug/L			10/03/23 20:16	10
Styrene	2.7	U	10	2.7	ug/L			10/03/23 20:16	10
Tetrachloroethene	3.5	U	10	3.5	ug/L			10/03/23 20:16	10
Toluene	2.5	U	10	2.5	ug/L			10/03/23 20:16	10
trans-1,2-Dichloroethene	**10**		10	3.4	ug/L			10/03/23 20:16	10
trans-1,3-Dichloropropene	2.3	U	10	2.3	ug/L			10/03/23 20:16	10
Trichloroethene	2.0	U	10	2.0	ug/L			10/03/23 20:16	10
Trichlorofluoromethane	3.3	U J3	10	3.3	ug/L			10/03/23 20:16	10
Vinyl chloride	**140**		10	4.0	ug/L			10/03/23 20:16	10
Xylenes, Total	2.3	U	10	2.3	ug/L			10/03/23 20:16	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 124*		*10/03/23 20:16*	*10*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*		*10/03/23 20:16*	*10*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*10/03/23 20:16*	*10*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/03/23 20:16*	*10*

Client Sample ID: LC34-DPT0924-025.0-20230920
Lab Sample ID: 670-27244-4

Date Collected: 09/20/23 15:55
Matrix: Water
Date Received: 09/22/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2.1	U	10	2.1	ug/L			10/02/23 13:39	10
1,1,2,2-Tetrachloroethane	4.0	U	10	4.0	ug/L			10/02/23 13:39	10
1,1,2-Trichloro-1,2,2-trifluoroethane	2.3	U	10	2.3	ug/L			10/02/23 13:39	10
1,1,2-Trichloroethane	3.2	U	10	3.2	ug/L			10/02/23 13:39	10
1,1-Dichloroethane	3.3	U	10	3.3	ug/L			10/02/23 13:39	10
1,1-Dichloroethene	3.3	U	10	3.3	ug/L			10/02/23 13:39	10
1,2,4-Trichlorobenzene	5.3	U	50	5.3	ug/L			10/02/23 13:39	10
1,2-Dibromo-3-Chloropropane	18	U	50	18	ug/L			10/02/23 13:39	10
1,2-Dibromoethane (EDB)	3.3	U	10	3.3	ug/L			10/02/23 13:39	10
1,2-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/02/23 13:39	10
1,2-Dichloroethane	2.5	U	10	2.5	ug/L			10/02/23 13:39	10
1,2-Dichloropropane	2.2	U	10	2.2	ug/L			10/02/23 13:39	10
1,3-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/02/23 13:39	10
1,4-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/02/23 13:39	10
2-Butanone (MEK)	64	U	100	64	ug/L			10/02/23 13:39	10

Client Sample ID: LC34-DPT0924-025.0-20230920
Lab Sample ID: 670-27244-4

Date Collected: 09/20/23 15:55
Matrix: Water
Date Received: 09/22/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	32	U	100	32	ug/L			10/02/23 13:39	10
4-Methyl-2-pentanone	27	U	100	27	ug/L			10/02/23 13:39	10
Acetone	37	U	100	37	ug/L			10/02/23 13:39	10
Benzene	2.7	U	10	2.7	ug/L			10/02/23 13:39	10
Bromodichloromethane	2.5	U	10	2.5	ug/L			10/02/23 13:39	10
Bromoform	5.9	U	10	5.9	ug/L			10/02/23 13:39	10
Bromomethane	37	U	50	37	ug/L			10/02/23 13:39	10
Carbon disulfide	4.3	U	20	4.3	ug/L			10/02/23 13:39	10
Carbon tetrachloride	3.0	U	10	3.0	ug/L			10/02/23 13:39	10
Chlorobenzene	1.5	U	10	1.5	ug/L			10/02/23 13:39	10
Chloroethane	46	U	50	46	ug/L			10/02/23 13:39	10
Chloroform	2.7	U	10	2.7	ug/L			10/02/23 13:39	10
Chloromethane	5.4	U	10	5.4	ug/L			10/02/23 13:39	10
cis-1,2-Dichloroethene	**90**		10	2.5	ug/L			10/02/23 13:39	10
cis-1,3-Dichloropropene	2.6	U	10	2.6	ug/L			10/02/23 13:39	10
Cyclohexane	2.8	U	10	2.8	ug/L			10/02/23 13:39	10
Dibromochloromethane	3.9	U	10	3.9	ug/L			10/02/23 13:39	10
Dichlorodifluoromethane	3.6	U	10	3.6	ug/L			10/02/23 13:39	10
Ethylbenzene	2.0	U	10	2.0	ug/L			10/02/23 13:39	10
Isopropylbenzene	2.6	U	10	2.6	ug/L			10/02/23 13:39	10
m,p-Xylenes	4.9	U	10	4.9	ug/L			10/02/23 13:39	10
Methyl acetate	32	U	50	32	ug/L			10/02/23 13:39	10
Methyl tert-butyl ether	8.1	U	50	8.1	ug/L			10/02/23 13:39	10
Methylene Chloride	32	U	50	32	ug/L			10/02/23 13:39	10
o-Xylene	2.6	U	10	2.6	ug/L			10/02/23 13:39	10
Styrene	2.7	U	10	2.7	ug/L			10/02/23 13:39	10
Tetrachloroethene	3.5	U	10	3.5	ug/L			10/02/23 13:39	10
Toluene	2.5	U	10	2.5	ug/L			10/02/23 13:39	10
trans-1,2-Dichloroethene	3.4	U	10	3.4	ug/L			10/02/23 13:39	10
trans-1,3-Dichloropropene	2.3	U	10	2.3	ug/L			10/02/23 13:39	10
Trichloroethene	2.0	U	10	2.0	ug/L			10/02/23 13:39	10
Trichlorofluoromethane	3.3	U	10	3.3	ug/L			10/02/23 13:39	10
Vinyl chloride	4.0	U	10	4.0	ug/L			10/02/23 13:39	10
Xylenes, Total	2.3	U	10	2.3	ug/L			10/02/23 13:39	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 124*		*10/02/23 13:39*	*10*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*		*10/02/23 13:39*	*10*
Dibromofluoromethane (Surr)	*111*		*70 - 130*		*10/02/23 13:39*	*10*
Toluene-d8 (Surr)	*92*		*70 - 130*		*10/02/23 13:39*	*10*

Client Sample ID: LC34-DPT0924-034.0-20230920
Lab Sample ID: 670-27244-5

Date Collected: 09/20/23 16:10
Matrix: Water
Date Received: 09/22/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/02/23 13:58	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/02/23 13:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/02/23 13:58	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27244-1

Client Sample ID: LC34-DPT0924-034.0-20230920
Date Collected: 09/20/23 16:10
Date Received: 09/22/23 08:00

Lab Sample ID: 670-27244-5
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/02/23 13:58	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/02/23 13:58	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/02/23 13:58	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/02/23 13:58	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/02/23 13:58	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/02/23 13:58	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/02/23 13:58	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/02/23 13:58	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/02/23 13:58	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/02/23 13:58	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/02/23 13:58	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/02/23 13:58	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/02/23 13:58	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/02/23 13:58	1
Acetone	3.7	U	10	3.7	ug/L			10/02/23 13:58	1
Benzene	0.27	U	1.0	0.27	ug/L			10/02/23 13:58	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/02/23 13:58	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/02/23 13:58	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/02/23 13:58	1
Carbon disulfide	**1.1**	**I**	2.0	0.43	ug/L			10/02/23 13:58	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/02/23 13:58	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/02/23 13:58	1
Chloroethane	4.6	U J3	5.0	4.6	ug/L			10/02/23 13:58	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/02/23 13:58	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/02/23 13:58	1
cis-1,2-Dichloroethene	**0.50**	**I**	1.0	0.25	ug/L			10/02/23 13:58	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/02/23 13:58	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/02/23 13:58	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/02/23 13:58	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/02/23 13:58	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/02/23 13:58	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/02/23 13:58	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/02/23 13:58	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/02/23 13:58	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/02/23 13:58	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/02/23 13:58	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/02/23 13:58	1
Styrene	0.27	U	1.0	0.27	ug/L			10/02/23 13:58	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/02/23 13:58	1
Toluene	**0.69**	**I**	1.0	0.25	ug/L			10/02/23 13:58	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/02/23 13:58	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/02/23 13:58	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/02/23 13:58	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/02/23 13:58	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/02/23 13:58	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/02/23 13:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 124*		*10/02/23 13:58*	*1*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*10/02/23 13:58*	*1*

Client Sample ID: LC34-DPT0924-034.0-20230920

Lab Sample ID: 670-27244-5

Date Collected: 09/20/23 16:10

Matrix: Water

Date Received: 09/22/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*113*		*70 - 130*		*10/02/23 13:58*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*10/02/23 13:58*	*1*

Client Sample ID: LC34-DPT0924-038.0-20230920

Lab Sample ID: 670-27244-6

Date Collected: 09/20/23 16:30

Matrix: Water

Date Received: 09/22/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/02/23 14:17	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/02/23 14:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/02/23 14:17	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/02/23 14:17	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/02/23 14:17	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/02/23 14:17	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/02/23 14:17	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/02/23 14:17	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/02/23 14:17	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/02/23 14:17	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/02/23 14:17	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/02/23 14:17	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/02/23 14:17	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/02/23 14:17	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/02/23 14:17	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/02/23 14:17	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/02/23 14:17	1
Acetone	3.7	U	10	3.7	ug/L			10/02/23 14:17	1
Benzene	0.27	U	1.0	0.27	ug/L			10/02/23 14:17	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/02/23 14:17	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/02/23 14:17	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/02/23 14:17	1
Carbon disulfide	**1.4**	**I**	2.0	0.43	ug/L			10/02/23 14:17	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/02/23 14:17	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/02/23 14:17	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/02/23 14:17	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/02/23 14:17	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/02/23 14:17	1
cis-1,2-Dichloroethene	**0.51**	**I**	1.0	0.25	ug/L			10/02/23 14:17	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/02/23 14:17	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/02/23 14:17	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/02/23 14:17	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/02/23 14:17	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/02/23 14:17	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/02/23 14:17	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/02/23 14:17	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/02/23 14:17	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/02/23 14:17	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/02/23 14:17	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/02/23 14:17	1

Client Sample ID: LC34-DPT0924-038.0-20230920
Lab Sample ID: 670-27244-6

Date Collected: 09/20/23 16:30
Matrix: Water
Date Received: 09/22/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.27	U	1.0	0.27	ug/L			10/02/23 14:17	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/02/23 14:17	1
Toluene	**0.43**	**I**	1.0	0.25	ug/L			10/02/23 14:17	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/02/23 14:17	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/02/23 14:17	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/02/23 14:17	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/02/23 14:17	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/02/23 14:17	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/02/23 14:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 124*		*10/02/23 14:17*	*1*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*		*10/02/23 14:17*	*1*
Dibromofluoromethane (Surr)	*111*		*70 - 130*		*10/02/23 14:17*	*1*
Toluene-d8 (Surr)	*94*		*70 - 130*		*10/02/23 14:17*	*1*

Client Sample ID: LC34-DPT0925-008.0-20230921
Lab Sample ID: 670-27244-7

Date Collected: 09/21/23 07:55
Matrix: Water
Date Received: 09/22/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/02/23 14:36	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/02/23 14:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/02/23 14:36	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/02/23 14:36	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/02/23 14:36	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/02/23 14:36	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/02/23 14:36	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/02/23 14:36	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/02/23 14:36	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/02/23 14:36	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/02/23 14:36	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/02/23 14:36	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/02/23 14:36	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/02/23 14:36	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/02/23 14:36	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/02/23 14:36	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/02/23 14:36	1
Acetone	3.7	U	10	3.7	ug/L			10/02/23 14:36	1
Benzene	0.27	U	1.0	0.27	ug/L			10/02/23 14:36	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/02/23 14:36	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/02/23 14:36	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/02/23 14:36	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/02/23 14:36	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/02/23 14:36	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/02/23 14:36	1
Chloroethane	4.6	U J3	5.0	4.6	ug/L			10/02/23 14:36	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/02/23 14:36	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/02/23 14:36	1

Client Sample ID: LC34-DPT0925-008.0-20230921
Lab Sample ID: 670-27244-7

Date Collected: 09/21/23 07:55
Matrix: Water
Date Received: 09/22/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**13**		1.0	0.25	ug/L			10/02/23 14:36	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/02/23 14:36	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/02/23 14:36	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/02/23 14:36	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/02/23 14:36	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/02/23 14:36	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/02/23 14:36	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/02/23 14:36	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/02/23 14:36	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/02/23 14:36	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/02/23 14:36	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/02/23 14:36	1
Styrene	0.27	U	1.0	0.27	ug/L			10/02/23 14:36	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/02/23 14:36	1
Toluene	0.25	U	1.0	0.25	ug/L			10/02/23 14:36	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/02/23 14:36	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/02/23 14:36	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/02/23 14:36	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/02/23 14:36	1
Vinyl chloride	**14**		1.0	0.40	ug/L			10/02/23 14:36	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/02/23 14:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 124*		*10/02/23 14:36*	*1*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*		*10/02/23 14:36*	*1*
Dibromofluoromethane (Surr)	*112*		*70 - 130*		*10/02/23 14:36*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*10/02/23 14:36*	*1*

Client Sample ID: LC34-DPT0-925-013.0-20230921
Lab Sample ID: 670-27244-8

Date Collected: 09/21/23 08:10
Matrix: Water
Date Received: 09/22/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/03/23 17:56	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/03/23 17:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/03/23 17:56	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/03/23 17:56	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/03/23 17:56	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/03/23 17:56	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/03/23 17:56	1
1,2-Dibromo-3-Chloropropane	1.8	U J3	5.0	1.8	ug/L			10/03/23 17:56	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/03/23 17:56	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/03/23 17:56	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/03/23 17:56	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/03/23 17:56	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/03/23 17:56	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/03/23 17:56	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/03/23 17:56	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/03/23 17:56	1

Client Sample ID: LC34-DPT0-925-013.0-20230921
Lab Sample ID: 670-27244-8

Date Collected: 09/21/23 08:10
Matrix: Water
Date Received: 09/22/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/03/23 17:56	1
Acetone	3.7	U	10	3.7	ug/L			10/03/23 17:56	1
Benzene	0.27	U	1.0	0.27	ug/L			10/03/23 17:56	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/03/23 17:56	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/03/23 17:56	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/03/23 17:56	1
Carbon disulfide	**0.58**	**I**	2.0	0.43	ug/L			10/03/23 17:56	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/03/23 17:56	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/03/23 17:56	1
Chloroethane	4.6	U J3	5.0	4.6	ug/L			10/03/23 17:56	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/03/23 17:56	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/03/23 17:56	1
cis-1,2-Dichloroethene	**72**		1.0	0.25	ug/L			10/03/23 17:56	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/03/23 17:56	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/03/23 17:56	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/03/23 17:56	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/03/23 17:56	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/03/23 17:56	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/03/23 17:56	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/03/23 17:56	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/03/23 17:56	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/03/23 17:56	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/03/23 17:56	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/03/23 17:56	1
Styrene	0.27	U	1.0	0.27	ug/L			10/03/23 17:56	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/03/23 17:56	1
Toluene	0.25	U	1.0	0.25	ug/L			10/03/23 17:56	1
trans-1,2-Dichloroethene	**0.89**	**I**	1.0	0.34	ug/L			10/03/23 17:56	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/03/23 17:56	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/03/23 17:56	1
Trichlorofluoromethane	0.33	U J3	1.0	0.33	ug/L			10/03/23 17:56	1
Vinyl chloride	**48**		1.0	0.40	ug/L			10/03/23 17:56	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/03/23 17:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 124*		*10/03/23 17:56*	*1*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*		*10/03/23 17:56*	*1*
Dibromofluoromethane (Surr)	*108*		*70 - 130*		*10/03/23 17:56*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*10/03/23 17:56*	*1*

Client Sample ID: LC34-DPT0925-018.0-20230921
Lab Sample ID: 670-27244-9

Date Collected: 09/21/23 08:25
Matrix: Water
Date Received: 09/22/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2.1	U	10	2.1	ug/L			10/03/23 20:40	10
1,1,2,2-Tetrachloroethane	4.0	U	10	4.0	ug/L			10/03/23 20:40	10
1,1,2-Trichloro-1,2,2-trifluoroethane	2.3	U	10	2.3	ug/L			10/03/23 20:40	10
1,1,2-Trichloroethane	3.2	U	10	3.2	ug/L			10/03/23 20:40	10

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27244-1

Client Sample ID: LC34-DPT0925-018.0-20230921
Date Collected: 09/21/23 08:25
Date Received: 09/22/23 08:00

Lab Sample ID: 670-27244-9
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	3.3	U	10	3.3	ug/L			10/03/23 20:40	10
1,1-Dichloroethene	3.3	U	10	3.3	ug/L			10/03/23 20:40	10
1,2,4-Trichlorobenzene	5.3	U	50	5.3	ug/L			10/03/23 20:40	10
1,2-Dibromo-3-Chloropropane	18	U J3	50	18	ug/L			10/03/23 20:40	10
1,2-Dibromoethane (EDB)	3.3	U	10	3.3	ug/L			10/03/23 20:40	10
1,2-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/03/23 20:40	10
1,2-Dichloroethane	2.5	U	10	2.5	ug/L			10/03/23 20:40	10
1,2-Dichloropropane	2.2	U	10	2.2	ug/L			10/03/23 20:40	10
1,3-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/03/23 20:40	10
1,4-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/03/23 20:40	10
2-Butanone (MEK)	64	U	100	64	ug/L			10/03/23 20:40	10
2-Hexanone	32	U	100	32	ug/L			10/03/23 20:40	10
4-Methyl-2-pentanone	27	U	100	27	ug/L			10/03/23 20:40	10
Acetone	37	U	100	37	ug/L			10/03/23 20:40	10
Benzene	2.7	U	10	2.7	ug/L			10/03/23 20:40	10
Bromodichloromethane	2.5	U	10	2.5	ug/L			10/03/23 20:40	10
Bromoform	5.9	U	10	5.9	ug/L			10/03/23 20:40	10
Bromomethane	37	U	50	37	ug/L			10/03/23 20:40	10
Carbon disulfide	4.3	U	20	4.3	ug/L			10/03/23 20:40	10
Carbon tetrachloride	3.0	U	10	3.0	ug/L			10/03/23 20:40	10
Chlorobenzene	1.5	U	10	1.5	ug/L			10/03/23 20:40	10
Chloroethane	46	U J3	50	46	ug/L			10/03/23 20:40	10
Chloroform	2.7	U	10	2.7	ug/L			10/03/23 20:40	10
Chloromethane	5.4	U	10	5.4	ug/L			10/03/23 20:40	10
cis-1,2-Dichloroethene	**870**		10	2.5	ug/L			10/03/23 20:40	10
cis-1,3-Dichloropropene	2.6	U	10	2.6	ug/L			10/03/23 20:40	10
Cyclohexane	2.8	U	10	2.8	ug/L			10/03/23 20:40	10
Dibromochloromethane	3.9	U	10	3.9	ug/L			10/03/23 20:40	10
Dichlorodifluoromethane	3.6	U	10	3.6	ug/L			10/03/23 20:40	10
Ethylbenzene	2.0	U	10	2.0	ug/L			10/03/23 20:40	10
Isopropylbenzene	2.6	U	10	2.6	ug/L			10/03/23 20:40	10
m,p-Xylenes	4.9	U	10	4.9	ug/L			10/03/23 20:40	10
Methyl acetate	32	U	50	32	ug/L			10/03/23 20:40	10
Methyl tert-butyl ether	8.1	U	50	8.1	ug/L			10/03/23 20:40	10
Methylene Chloride	32	U	50	32	ug/L			10/03/23 20:40	10
o-Xylene	2.6	U	10	2.6	ug/L			10/03/23 20:40	10
Styrene	2.7	U	10	2.7	ug/L			10/03/23 20:40	10
Tetrachloroethene	3.5	U	10	3.5	ug/L			10/03/23 20:40	10
Toluene	2.5	U	10	2.5	ug/L			10/03/23 20:40	10
trans-1,2-Dichloroethene	**6.1**	**I**	10	3.4	ug/L			10/03/23 20:40	10
trans-1,3-Dichloropropene	2.3	U	10	2.3	ug/L			10/03/23 20:40	10
Trichloroethene	2.0	U	10	2.0	ug/L			10/03/23 20:40	10
Trichlorofluoromethane	3.3	U J3	10	3.3	ug/L			10/03/23 20:40	10
Vinyl chloride	**240**		10	4.0	ug/L			10/03/23 20:40	10
Xylenes, Total	2.3	U	10	2.3	ug/L			10/03/23 20:40	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 124*		*10/03/23 20:40*	*10*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*		*10/03/23 20:40*	*10*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*10/03/23 20:40*	*10*

Client Sample ID: LC34-DPT0925-018.0-20230921
Lab Sample ID: 670-27244-9

Date Collected: 09/21/23 08:25
Matrix: Water
Date Received: 09/22/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		70 - 130		10/03/23 20:40	10

Client Sample ID: LC34-DPT0925-025.0-20230921
Lab Sample ID: 670-27244-10

Date Collected: 09/21/23 08:40
Matrix: Water
Date Received: 09/22/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.42	U	2.0	0.42	ug/L			10/03/23 21:03	2
1,1,2,2-Tetrachloroethane	0.80	U	2.0	0.80	ug/L			10/03/23 21:03	2
1,1,2-Trichloro-1,2,2-trifluoroethane	0.46	U	2.0	0.46	ug/L			10/03/23 21:03	2
1,1,2-Trichloroethane	0.64	U	2.0	0.64	ug/L			10/03/23 21:03	2
1,1-Dichloroethane	0.66	U	2.0	0.66	ug/L			10/03/23 21:03	2
1,1-Dichloroethene	0.66	U	2.0	0.66	ug/L			10/03/23 21:03	2
1,2,4-Trichlorobenzene	1.1	U	10	1.1	ug/L			10/03/23 21:03	2
1,2-Dibromo-3-Chloropropane	3.6	U J3	10	3.6	ug/L			10/03/23 21:03	2
1,2-Dibromoethane (EDB)	0.66	U	2.0	0.66	ug/L			10/03/23 21:03	2
1,2-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/03/23 21:03	2
1,2-Dichloroethane	0.50	U	2.0	0.50	ug/L			10/03/23 21:03	2
1,2-Dichloropropane	0.44	U	2.0	0.44	ug/L			10/03/23 21:03	2
1,3-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/03/23 21:03	2
1,4-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/03/23 21:03	2
2-Butanone (MEK)	13	U	20	13	ug/L			10/03/23 21:03	2
2-Hexanone	6.4	U	20	6.4	ug/L			10/03/23 21:03	2
4-Methyl-2-pentanone	5.4	U	20	5.4	ug/L			10/03/23 21:03	2
Acetone	7.4	U	20	7.4	ug/L			10/03/23 21:03	2
Benzene	0.54	U	2.0	0.54	ug/L			10/03/23 21:03	2
Bromodichloromethane	0.50	U	2.0	0.50	ug/L			10/03/23 21:03	2
Bromoform	1.2	U	2.0	1.2	ug/L			10/03/23 21:03	2
Bromomethane	7.4	U	10	7.4	ug/L			10/03/23 21:03	2
Carbon disulfide	0.86	U	4.0	0.86	ug/L			10/03/23 21:03	2
Carbon tetrachloride	0.60	U	2.0	0.60	ug/L			10/03/23 21:03	2
Chlorobenzene	0.30	U	2.0	0.30	ug/L			10/03/23 21:03	2
Chloroethane	9.2	U J3	10	9.2	ug/L			10/03/23 21:03	2
Chloroform	0.54	U	2.0	0.54	ug/L			10/03/23 21:03	2
Chloromethane	1.1	U	2.0	1.1	ug/L			10/03/23 21:03	2
cis-1,2-Dichloroethene	**140**		2.0	0.50	ug/L			10/03/23 21:03	2
cis-1,3-Dichloropropene	0.52	U	2.0	0.52	ug/L			10/03/23 21:03	2
Cyclohexane	0.56	U	2.0	0.56	ug/L			10/03/23 21:03	2
Dibromochloromethane	0.78	U	2.0	0.78	ug/L			10/03/23 21:03	2
Dichlorodifluoromethane	0.72	U	2.0	0.72	ug/L			10/03/23 21:03	2
Ethylbenzene	0.40	U	2.0	0.40	ug/L			10/03/23 21:03	2
Isopropylbenzene	0.52	U	2.0	0.52	ug/L			10/03/23 21:03	2
m,p-Xylenes	0.98	U	2.0	0.98	ug/L			10/03/23 21:03	2
Methyl acetate	6.4	U	10	6.4	ug/L			10/03/23 21:03	2
Methyl tert-butyl ether	1.6	U	10	1.6	ug/L			10/03/23 21:03	2
Methylene Chloride	6.4	U	10	6.4	ug/L			10/03/23 21:03	2
o-Xylene	0.52	U	2.0	0.52	ug/L			10/03/23 21:03	2
Styrene	0.54	U	2.0	0.54	ug/L			10/03/23 21:03	2

Client Sample ID: LC34-DPT0925-025.0-20230921
Lab Sample ID: 670-27244-10

Date Collected: 09/21/23 08:40
Matrix: Water
Date Received: 09/22/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	0.70	U	2.0	0.70	ug/L			10/03/23 21:03	2
Toluene	0.50	U	2.0	0.50	ug/L			10/03/23 21:03	2
trans-1,2-Dichloroethene	0.68	U	2.0	0.68	ug/L			10/03/23 21:03	2
trans-1,3-Dichloropropene	0.46	U	2.0	0.46	ug/L			10/03/23 21:03	2
Trichloroethene	0.40	U	2.0	0.40	ug/L			10/03/23 21:03	2
Trichlorofluoromethane	0.66	U J3	2.0	0.66	ug/L			10/03/23 21:03	2
Vinyl chloride	**6.1**		2.0	0.80	ug/L			10/03/23 21:03	2
Xylenes, Total	0.46	U	2.0	0.46	ug/L			10/03/23 21:03	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 124*		*10/03/23 21:03*	*2*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*		*10/03/23 21:03*	*2*
Dibromofluoromethane (Surr)	*110*		*70 - 130*		*10/03/23 21:03*	*2*
Toluene-d8 (Surr)	*102*		*70 - 130*		*10/03/23 21:03*	*2*

Client Sample ID: LC34-DPT0925-034.0-20230921
Lab Sample ID: 670-27244-11

Date Collected: 09/21/23 08:55
Matrix: Water
Date Received: 09/22/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/02/23 15:56	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/02/23 15:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/02/23 15:56	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/02/23 15:56	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/02/23 15:56	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/02/23 15:56	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/02/23 15:56	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/02/23 15:56	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/02/23 15:56	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/02/23 15:56	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/02/23 15:56	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/02/23 15:56	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/02/23 15:56	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/02/23 15:56	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/02/23 15:56	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/02/23 15:56	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/02/23 15:56	1
Acetone	3.7	U	10	3.7	ug/L			10/02/23 15:56	1
Benzene	0.27	U	1.0	0.27	ug/L			10/02/23 15:56	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/02/23 15:56	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/02/23 15:56	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/02/23 15:56	1
Carbon disulfide	**0.95**	**I**	2.0	0.43	ug/L			10/02/23 15:56	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/02/23 15:56	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/02/23 15:56	1
Chloroethane	4.6	U J3	5.0	4.6	ug/L			10/02/23 15:56	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/02/23 15:56	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/02/23 15:56	1
cis-1,2-Dichloroethene	**0.37**	**I**	1.0	0.25	ug/L			10/02/23 15:56	1

Client Sample ID: LC34-DPT0925-034.0-20230921
Lab Sample ID: 670-27244-11

Date Collected: 09/21/23 08:55
Matrix: Water
Date Received: 09/22/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/02/23 15:56	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/02/23 15:56	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/02/23 15:56	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/02/23 15:56	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/02/23 15:56	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/02/23 15:56	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/02/23 15:56	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/02/23 15:56	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/02/23 15:56	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/02/23 15:56	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/02/23 15:56	1
Styrene	0.27	U	1.0	0.27	ug/L			10/02/23 15:56	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/02/23 15:56	1
Toluene	0.25	U	1.0	0.25	ug/L			10/02/23 15:56	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/02/23 15:56	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/02/23 15:56	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/02/23 15:56	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/02/23 15:56	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/02/23 15:56	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/02/23 15:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 124*		*10/02/23 15:56*	*1*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*		*10/02/23 15:56*	*1*
Dibromofluoromethane (Surr)	*111*		*70 - 130*		*10/02/23 15:56*	*1*
Toluene-d8 (Surr)	*94*		*70 - 130*		*10/02/23 15:56*	*1*

Client Sample ID: LC34-DPT0925-038.0-20230921
Lab Sample ID: 670-27244-12

Date Collected: 09/21/23 09:15
Matrix: Water
Date Received: 09/22/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/02/23 16:15	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/02/23 16:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/02/23 16:15	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/02/23 16:15	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/02/23 16:15	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/02/23 16:15	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/02/23 16:15	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/02/23 16:15	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/02/23 16:15	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/02/23 16:15	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/02/23 16:15	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/02/23 16:15	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/02/23 16:15	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/02/23 16:15	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/02/23 16:15	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/02/23 16:15	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/02/23 16:15	1

Client Sample ID: LC34-DPT0925-038.0-20230921
Lab Sample ID: 670-27244-12

Date Collected: 09/21/23 09:15
Matrix: Water
Date Received: 09/22/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	3.7	U	10	3.7	ug/L			10/02/23 16:15	1
Benzene	0.27	U	1.0	0.27	ug/L			10/02/23 16:15	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/02/23 16:15	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/02/23 16:15	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/02/23 16:15	1
Carbon disulfide	**0.61**	**I**	2.0	0.43	ug/L			10/02/23 16:15	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/02/23 16:15	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/02/23 16:15	1
Chloroethane	4.6	U J3	5.0	4.6	ug/L			10/02/23 16:15	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/02/23 16:15	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/02/23 16:15	1
cis-1,2-Dichloroethene	**0.47**	**I**	1.0	0.25	ug/L			10/02/23 16:15	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/02/23 16:15	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/02/23 16:15	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/02/23 16:15	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/02/23 16:15	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/02/23 16:15	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/02/23 16:15	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/02/23 16:15	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/02/23 16:15	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/02/23 16:15	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/02/23 16:15	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/02/23 16:15	1
Styrene	0.27	U	1.0	0.27	ug/L			10/02/23 16:15	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/02/23 16:15	1
Toluene	0.25	U	1.0	0.25	ug/L			10/02/23 16:15	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/02/23 16:15	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/02/23 16:15	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/02/23 16:15	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/02/23 16:15	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/02/23 16:15	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/02/23 16:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 124*		*10/02/23 16:15*	*1*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*		*10/02/23 16:15*	*1*
Dibromofluoromethane (Surr)	*111*		*70 - 130*		*10/02/23 16:15*	*1*
Toluene-d8 (Surr)	*93*		*70 - 130*		*10/02/23 16:15*	*1*

Client Sample ID: LC34-DPT0926-008.0-20230921
Lab Sample ID: 670-27244-13

Date Collected: 09/21/23 10:05
Matrix: Water
Date Received: 09/22/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/02/23 16:34	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/02/23 16:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/02/23 16:34	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/02/23 16:34	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/02/23 16:34	1

Client Sample ID: LC34-DPT0926-008.0-20230921
Lab Sample ID: 670-27244-13
Date Collected: 09/21/23 10:05
Matrix: Water
Date Received: 09/22/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/02/23 16:34	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/02/23 16:34	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/02/23 16:34	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/02/23 16:34	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/02/23 16:34	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/02/23 16:34	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/02/23 16:34	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/02/23 16:34	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/02/23 16:34	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/02/23 16:34	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/02/23 16:34	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/02/23 16:34	1
Acetone	3.7	U	10	3.7	ug/L			10/02/23 16:34	1
Benzene	0.27	U	1.0	0.27	ug/L			10/02/23 16:34	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/02/23 16:34	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/02/23 16:34	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/02/23 16:34	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/02/23 16:34	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/02/23 16:34	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/02/23 16:34	1
Chloroethane	4.6	U J3	5.0	4.6	ug/L			10/02/23 16:34	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/02/23 16:34	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/02/23 16:34	1
cis-1,2-Dichloroethene	**5.6**		1.0	0.25	ug/L			10/02/23 16:34	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/02/23 16:34	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/02/23 16:34	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/02/23 16:34	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/02/23 16:34	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/02/23 16:34	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/02/23 16:34	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/02/23 16:34	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/02/23 16:34	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/02/23 16:34	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/02/23 16:34	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/02/23 16:34	1
Styrene	0.27	U	1.0	0.27	ug/L			10/02/23 16:34	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/02/23 16:34	1
Toluene	0.25	U	1.0	0.25	ug/L			10/02/23 16:34	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/02/23 16:34	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/02/23 16:34	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/02/23 16:34	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/02/23 16:34	1
Vinyl chloride	**5.6**		1.0	0.40	ug/L			10/02/23 16:34	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/02/23 16:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 124*		*10/02/23 16:34*	*1*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*		*10/02/23 16:34*	*1*
Dibromofluoromethane (Surr)	*110*		*70 - 130*		*10/02/23 16:34*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*10/02/23 16:34*	*1*

Client: Tetra Tech, Inc.
Job ID: 670-27244-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT0926-013.020230921
Lab Sample ID: 670-27244-14
Date Collected: 09/21/23 10:20
Matrix: Water
Date Received: 09/22/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/03/23 18:20	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/03/23 18:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/03/23 18:20	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/03/23 18:20	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/03/23 18:20	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/03/23 18:20	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/03/23 18:20	1
1,2-Dibromo-3-Chloropropane	1.8	U J3	5.0	1.8	ug/L			10/03/23 18:20	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/03/23 18:20	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/03/23 18:20	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/03/23 18:20	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/03/23 18:20	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/03/23 18:20	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/03/23 18:20	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/03/23 18:20	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/03/23 18:20	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/03/23 18:20	1
Acetone	3.7	U	10	3.7	ug/L			10/03/23 18:20	1
Benzene	0.27	U	1.0	0.27	ug/L			10/03/23 18:20	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/03/23 18:20	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/03/23 18:20	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/03/23 18:20	1
Carbon disulfide	**0.68**	**I**	2.0	0.43	ug/L			10/03/23 18:20	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/03/23 18:20	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/03/23 18:20	1
Chloroethane	4.6	U J3	5.0	4.6	ug/L			10/03/23 18:20	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/03/23 18:20	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/03/23 18:20	1
cis-1,2-Dichloroethene	**34**		1.0	0.25	ug/L			10/03/23 18:20	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/03/23 18:20	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/03/23 18:20	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/03/23 18:20	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/03/23 18:20	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/03/23 18:20	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/03/23 18:20	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/03/23 18:20	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/03/23 18:20	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/03/23 18:20	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/03/23 18:20	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/03/23 18:20	1
Styrene	0.27	U	1.0	0.27	ug/L			10/03/23 18:20	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/03/23 18:20	1
Toluene	0.25	U	1.0	0.25	ug/L			10/03/23 18:20	1
trans-1,2-Dichloroethene	**0.52**	**I**	1.0	0.34	ug/L			10/03/23 18:20	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/03/23 18:20	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/03/23 18:20	1
Trichlorofluoromethane	0.33	U J3	1.0	0.33	ug/L			10/03/23 18:20	1
Vinyl chloride	**21**		1.0	0.40	ug/L			10/03/23 18:20	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/03/23 18:20	1

Client Sample ID: LC34-DPT0926-013.020230921
Lab Sample ID: 670-27244-14

Date Collected: 09/21/23 10:20
Matrix: Water
Date Received: 09/22/23 08:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 124*		*10/03/23 18:20*	*1*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*		*10/03/23 18:20*	*1*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*10/03/23 18:20*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/03/23 18:20*	*1*

Client Sample ID: LC34-DPT0926-018.0-20230921
Lab Sample ID: 670-27244-15

Date Collected: 09/21/23 10:35
Matrix: Water
Date Received: 09/22/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	5.0	1.1	ug/L			10/03/23 21:26	5
1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	ug/L			10/03/23 21:26	5
1,1,2-Trichloro-1,2,2-trifluoroethane	1.2	U	5.0	1.2	ug/L			10/03/23 21:26	5
1,1,2-Trichloroethane	1.6	U	5.0	1.6	ug/L			10/03/23 21:26	5
1,1-Dichloroethane	1.7	U	5.0	1.7	ug/L			10/03/23 21:26	5
1,1-Dichloroethene	1.7	U	5.0	1.7	ug/L			10/03/23 21:26	5
1,2,4-Trichlorobenzene	2.7	U	25	2.7	ug/L			10/03/23 21:26	5
1,2-Dibromo-3-Chloropropane	9.0	U J3	25	9.0	ug/L			10/03/23 21:26	5
1,2-Dibromoethane (EDB)	1.7	U	5.0	1.7	ug/L			10/03/23 21:26	5
1,2-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/03/23 21:26	5
1,2-Dichloroethane	1.3	U	5.0	1.3	ug/L			10/03/23 21:26	5
1,2-Dichloropropane	1.1	U	5.0	1.1	ug/L			10/03/23 21:26	5
1,3-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/03/23 21:26	5
1,4-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/03/23 21:26	5
2-Butanone (MEK)	32	U	50	32	ug/L			10/03/23 21:26	5
2-Hexanone	16	U	50	16	ug/L			10/03/23 21:26	5
4-Methyl-2-pentanone	14	U	50	14	ug/L			10/03/23 21:26	5
Acetone	19	U	50	19	ug/L			10/03/23 21:26	5
Benzene	1.4	U	5.0	1.4	ug/L			10/03/23 21:26	5
Bromodichloromethane	1.3	U	5.0	1.3	ug/L			10/03/23 21:26	5
Bromoform	3.0	U	5.0	3.0	ug/L			10/03/23 21:26	5
Bromomethane	19	U	25	19	ug/L			10/03/23 21:26	5
Carbon disulfide	2.2	U	10	2.2	ug/L			10/03/23 21:26	5
Carbon tetrachloride	1.5	U	5.0	1.5	ug/L			10/03/23 21:26	5
Chlorobenzene	0.75	U	5.0	0.75	ug/L			10/03/23 21:26	5
Chloroethane	23	U J3	25	23	ug/L			10/03/23 21:26	5
Chloroform	1.4	U	5.0	1.4	ug/L			10/03/23 21:26	5
Chloromethane	2.7	U	5.0	2.7	ug/L			10/03/23 21:26	5
cis-1,2-Dichloroethene	**420**		5.0	1.3	ug/L			10/03/23 21:26	5
cis-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			10/03/23 21:26	5
Cyclohexane	1.4	U	5.0	1.4	ug/L			10/03/23 21:26	5
Dibromochloromethane	2.0	U	5.0	2.0	ug/L			10/03/23 21:26	5
Dichlorodifluoromethane	1.8	U	5.0	1.8	ug/L			10/03/23 21:26	5
Ethylbenzene	1.0	U	5.0	1.0	ug/L			10/03/23 21:26	5
Isopropylbenzene	1.3	U	5.0	1.3	ug/L			10/03/23 21:26	5
m,p-Xylenes	2.5	U	5.0	2.5	ug/L			10/03/23 21:26	5
Methyl acetate	16	U	25	16	ug/L			10/03/23 21:26	5
Methyl tert-butyl ether	4.1	U	25	4.1	ug/L			10/03/23 21:26	5
Methylene Chloride	16	U	25	16	ug/L			10/03/23 21:26	5

Client Sample ID: LC34-DPT0926-018.0-20230921
Lab Sample ID: 670-27244-15

Date Collected: 09/21/23 10:35
Matrix: Water
Date Received: 09/22/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	1.3	U	5.0	1.3	ug/L			10/03/23 21:26	5
Styrene	1.4	U	5.0	1.4	ug/L			10/03/23 21:26	5
Tetrachloroethene	1.8	U	5.0	1.8	ug/L			10/03/23 21:26	5
Toluene	1.3	U	5.0	1.3	ug/L			10/03/23 21:26	5
trans-1,2-Dichloroethene	**7.3**		5.0	1.7	ug/L			10/03/23 21:26	5
trans-1,3-Dichloropropene	1.2	U	5.0	1.2	ug/L			10/03/23 21:26	5
Trichloroethene	1.0	U	5.0	1.0	ug/L			10/03/23 21:26	5
Trichlorofluoromethane	1.7	U J3	5.0	1.7	ug/L			10/03/23 21:26	5
Vinyl chloride	**200**		5.0	2.0	ug/L			10/03/23 21:26	5
Xylenes, Total	1.2	U	5.0	1.2	ug/L			10/03/23 21:26	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 124*		*10/03/23 21:26*	*5*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*		*10/03/23 21:26*	*5*
Dibromofluoromethane (Surr)	*110*		*70 - 130*		*10/03/23 21:26*	*5*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/03/23 21:26*	*5*

Client Sample ID: LC34-DPT0926-025.0-20230921
Lab Sample ID: 670-27244-16

Date Collected: 09/21/23 10:55
Matrix: Water
Date Received: 09/22/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.3	U	25	5.3	ug/L			10/03/23 21:50	25
1,1,2,2-Tetrachloroethane	10	U	25	10	ug/L			10/03/23 21:50	25
1,1,2-Trichloro-1,2,2-trifluoroethane	5.8	U	25	5.8	ug/L			10/03/23 21:50	25
1,1,2-Trichloroethane	8.0	U	25	8.0	ug/L			10/03/23 21:50	25
1,1-Dichloroethane	8.3	U	25	8.3	ug/L			10/03/23 21:50	25
1,1-Dichloroethene	8.3	U	25	8.3	ug/L			10/03/23 21:50	25
1,2,4-Trichlorobenzene	13	U	130	13	ug/L			10/03/23 21:50	25
1,2-Dibromo-3-Chloropropane	45	U J3	130	45	ug/L			10/03/23 21:50	25
1,2-Dibromoethane (EDB)	8.3	U	25	8.3	ug/L			10/03/23 21:50	25
1,2-Dichlorobenzene	7.8	U	25	7.8	ug/L			10/03/23 21:50	25
1,2-Dichloroethane	6.3	U	25	6.3	ug/L			10/03/23 21:50	25
1,2-Dichloropropane	5.5	U	25	5.5	ug/L			10/03/23 21:50	25
1,3-Dichlorobenzene	7.8	U	25	7.8	ug/L			10/03/23 21:50	25
1,4-Dichlorobenzene	7.8	U	25	7.8	ug/L			10/03/23 21:50	25
2-Butanone (MEK)	160	U	250	160	ug/L			10/03/23 21:50	25
2-Hexanone	80	U	250	80	ug/L			10/03/23 21:50	25
4-Methyl-2-pentanone	68	U	250	68	ug/L			10/03/23 21:50	25
Acetone	93	U	250	93	ug/L			10/03/23 21:50	25
Benzene	6.8	U	25	6.8	ug/L			10/03/23 21:50	25
Bromodichloromethane	6.3	U	25	6.3	ug/L			10/03/23 21:50	25
Bromoform	15	U	25	15	ug/L			10/03/23 21:50	25
Bromomethane	93	U	130	93	ug/L			10/03/23 21:50	25
Carbon disulfide	11	U	50	11	ug/L			10/03/23 21:50	25
Carbon tetrachloride	7.5	U	25	7.5	ug/L			10/03/23 21:50	25
Chlorobenzene	3.8	U	25	3.8	ug/L			10/03/23 21:50	25
Chloroethane	120	U J3	130	120	ug/L			10/03/23 21:50	25
Chloroform	6.8	U	25	6.8	ug/L			10/03/23 21:50	25

Client Sample ID: LC34-DPT0926-025.0-20230921
Lab Sample ID: 670-27244-16

Date Collected: 09/21/23 10:55
Matrix: Water
Date Received: 09/22/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	14	U	25	14	ug/L			10/03/23 21:50	25
cis-1,2-Dichloroethene	**1300**		25	6.3	ug/L			10/03/23 21:50	25
cis-1,3-Dichloropropene	6.5	U	25	6.5	ug/L			10/03/23 21:50	25
Cyclohexane	7.0	U	25	7.0	ug/L			10/03/23 21:50	25
Dibromochloromethane	9.8	U	25	9.8	ug/L			10/03/23 21:50	25
Dichlorodifluoromethane	9.0	U	25	9.0	ug/L			10/03/23 21:50	25
Ethylbenzene	5.0	U	25	5.0	ug/L			10/03/23 21:50	25
Isopropylbenzene	6.5	U	25	6.5	ug/L			10/03/23 21:50	25
m,p-Xylenes	12	U	25	12	ug/L			10/03/23 21:50	25
Methyl acetate	80	U	130	80	ug/L			10/03/23 21:50	25
Methyl tert-butyl ether	20	U	130	20	ug/L			10/03/23 21:50	25
Methylene Chloride	80	U	130	80	ug/L			10/03/23 21:50	25
o-Xylene	6.5	U	25	6.5	ug/L			10/03/23 21:50	25
Styrene	6.8	U	25	6.8	ug/L			10/03/23 21:50	25
Tetrachloroethene	8.8	U	25	8.8	ug/L			10/03/23 21:50	25
Toluene	6.3	U	25	6.3	ug/L			10/03/23 21:50	25
trans-1,2-Dichloroethene	8.5	U	25	8.5	ug/L			10/03/23 21:50	25
trans-1,3-Dichloropropene	5.8	U	25	5.8	ug/L			10/03/23 21:50	25
Trichloroethene	5.0	U	25	5.0	ug/L			10/03/23 21:50	25
Trichlorofluoromethane	8.3	U J3	25	8.3	ug/L			10/03/23 21:50	25
Vinyl chloride	**130**		25	10	ug/L			10/03/23 21:50	25
Xylenes, Total	5.8	U	25	5.8	ug/L			10/03/23 21:50	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 124*		*10/03/23 21:50*	*25*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*		*10/03/23 21:50*	*25*
Dibromofluoromethane (Surr)	*110*		*70 - 130*		*10/03/23 21:50*	*25*
Toluene-d8 (Surr)	*102*		*70 - 130*		*10/03/23 21:50*	*25*

Client Sample ID: LC34-DPT0926-034.020230921
Lab Sample ID: 670-27244-17

Date Collected: 09/21/23 11:15
Matrix: Water
Date Received: 09/22/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/03/23 18:43	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/03/23 18:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/03/23 18:43	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/03/23 18:43	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/03/23 18:43	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/03/23 18:43	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/03/23 18:43	1
1,2-Dibromo-3-Chloropropane	1.8	U J3	5.0	1.8	ug/L			10/03/23 18:43	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/03/23 18:43	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/03/23 18:43	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/03/23 18:43	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/03/23 18:43	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/03/23 18:43	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/03/23 18:43	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/03/23 18:43	1

Client Sample ID: LC34-DPT0926-034.020230921
Lab Sample ID: 670-27244-17

Date Collected: 09/21/23 11:15
Matrix: Water
Date Received: 09/22/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	3.2	U	10	3.2	ug/L			10/03/23 18:43	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/03/23 18:43	1
Acetone	3.7	U	10	3.7	ug/L			10/03/23 18:43	1
Benzene	0.27	U	1.0	0.27	ug/L			10/03/23 18:43	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/03/23 18:43	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/03/23 18:43	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/03/23 18:43	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/03/23 18:43	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/03/23 18:43	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/03/23 18:43	1
Chloroethane	4.6	U J3	5.0	4.6	ug/L			10/03/23 18:43	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/03/23 18:43	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/03/23 18:43	1
cis-1,2-Dichloroethene	**53**		1.0	0.25	ug/L			10/03/23 18:43	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/03/23 18:43	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/03/23 18:43	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/03/23 18:43	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/03/23 18:43	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/03/23 18:43	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/03/23 18:43	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/03/23 18:43	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/03/23 18:43	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/03/23 18:43	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/03/23 18:43	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/03/23 18:43	1
Styrene	0.27	U	1.0	0.27	ug/L			10/03/23 18:43	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/03/23 18:43	1
Toluene	0.25	U	1.0	0.25	ug/L			10/03/23 18:43	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/03/23 18:43	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/03/23 18:43	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/03/23 18:43	1
Trichlorofluoromethane	0.33	U J3	1.0	0.33	ug/L			10/03/23 18:43	1
Vinyl chloride	**8.8**		1.0	0.40	ug/L			10/03/23 18:43	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/03/23 18:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 124*		*10/03/23 18:43*	*1*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*		*10/03/23 18:43*	*1*
Dibromofluoromethane (Surr)	*110*		*70 - 130*		*10/03/23 18:43*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*10/03/23 18:43*	*1*

Client Sample ID: LC34-DPT0926-038.0-20230921
Lab Sample ID: 670-27244-18

Date Collected: 09/21/23 11:35
Matrix: Water
Date Received: 09/22/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/02/23 18:15	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/02/23 18:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/02/23 18:15	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27244-1

Client Sample ID: LC34-DPT0926-038.0-20230921
Date Collected: 09/21/23 11:35
Date Received: 09/22/23 08:00

Lab Sample ID: 670-27244-18
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/02/23 18:15	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/02/23 18:15	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/02/23 18:15	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/02/23 18:15	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/02/23 18:15	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/02/23 18:15	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/02/23 18:15	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/02/23 18:15	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/02/23 18:15	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/02/23 18:15	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/02/23 18:15	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/02/23 18:15	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/02/23 18:15	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/02/23 18:15	1
Acetone	3.7	U	10	3.7	ug/L			10/02/23 18:15	1
Benzene	0.27	U	1.0	0.27	ug/L			10/02/23 18:15	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/02/23 18:15	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/02/23 18:15	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/02/23 18:15	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/02/23 18:15	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/02/23 18:15	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/02/23 18:15	1
Chloroethane	4.6	U J3	5.0	4.6	ug/L			10/02/23 18:15	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/02/23 18:15	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/02/23 18:15	1
cis-1,2-Dichloroethene	**0.33**	**I**	1.0	0.25	ug/L			10/02/23 18:15	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/02/23 18:15	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/02/23 18:15	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/02/23 18:15	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/02/23 18:15	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/02/23 18:15	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/02/23 18:15	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/02/23 18:15	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/02/23 18:15	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/02/23 18:15	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/02/23 18:15	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/02/23 18:15	1
Styrene	0.27	U	1.0	0.27	ug/L			10/02/23 18:15	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/02/23 18:15	1
Toluene	0.25	U	1.0	0.25	ug/L			10/02/23 18:15	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/02/23 18:15	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/02/23 18:15	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/02/23 18:15	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/02/23 18:15	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/02/23 18:15	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/02/23 18:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 124*		*10/02/23 18:15*	*1*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*		*10/02/23 18:15*	*1*

Client Sample ID: LC34-DPT0926-038.0-20230921
Lab Sample ID: 670-27244-18

Date Collected: 09/21/23 11:35
Matrix: Water
Date Received: 09/22/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*10/02/23 18:15*	*1*
Toluene-d8 (Surr)	*93*		*70 - 130*		*10/02/23 18:15*	*1*

Client Sample ID: LC34-DPT0927-008.0-20230921
Lab Sample ID: 670-27244-19

Date Collected: 09/21/23 12:10
Matrix: Water
Date Received: 09/22/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/02/23 18:34	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/02/23 18:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/02/23 18:34	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/02/23 18:34	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/02/23 18:34	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/02/23 18:34	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/02/23 18:34	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/02/23 18:34	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/02/23 18:34	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/02/23 18:34	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/02/23 18:34	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/02/23 18:34	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/02/23 18:34	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/02/23 18:34	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/02/23 18:34	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/02/23 18:34	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/02/23 18:34	1
Acetone	3.7	U	10	3.7	ug/L			10/02/23 18:34	1
Benzene	0.27	U	1.0	0.27	ug/L			10/02/23 18:34	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/02/23 18:34	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/02/23 18:34	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/02/23 18:34	1
Carbon disulfide	**1.4**	**I**	2.0	0.43	ug/L			10/02/23 18:34	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/02/23 18:34	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/02/23 18:34	1
Chloroethane	4.6	U J3	5.0	4.6	ug/L			10/02/23 18:34	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/02/23 18:34	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/02/23 18:34	1
cis-1,2-Dichloroethene	**5.8**		1.0	0.25	ug/L			10/02/23 18:34	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/02/23 18:34	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/02/23 18:34	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/02/23 18:34	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/02/23 18:34	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/02/23 18:34	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/02/23 18:34	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/02/23 18:34	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/02/23 18:34	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/02/23 18:34	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/02/23 18:34	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/02/23 18:34	1

Client Sample ID: LC34-DPT0927-008.0-20230921
Lab Sample ID: 670-27244-19

Date Collected: 09/21/23 12:10
Matrix: Water
Date Received: 09/22/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.27	U	1.0	0.27	ug/L			10/02/23 18:34	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/02/23 18:34	1
Toluene	**0.41**	**I**	1.0	0.25	ug/L			10/02/23 18:34	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/02/23 18:34	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/02/23 18:34	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/02/23 18:34	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/02/23 18:34	1
Vinyl chloride	**6.8**		1.0	0.40	ug/L			10/02/23 18:34	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/02/23 18:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 124*		*10/02/23 18:34*	*1*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*		*10/02/23 18:34*	*1*
Dibromofluoromethane (Surr)	*110*		*70 - 130*		*10/02/23 18:34*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*10/02/23 18:34*	*1*

Client Sample ID: LC34-DPT0927-013.0-20230921
Lab Sample ID: 670-27244-20

Date Collected: 09/21/23 12:25
Matrix: Water
Date Received: 09/22/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	5.0	1.1	ug/L			10/02/23 18:56	5
1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	ug/L			10/02/23 18:56	5
1,1,2-Trichloro-1,2,2-trifluoroethane	1.2	U	5.0	1.2	ug/L			10/02/23 18:56	5
1,1,2-Trichloroethane	1.6	U	5.0	1.6	ug/L			10/02/23 18:56	5
1,1-Dichloroethane	1.7	U	5.0	1.7	ug/L			10/02/23 18:56	5
1,1-Dichloroethene	1.7	U	5.0	1.7	ug/L			10/02/23 18:56	5
1,2,4-Trichlorobenzene	2.7	U	25	2.7	ug/L			10/02/23 18:56	5
1,2-Dibromo-3-Chloropropane	9.0	U	25	9.0	ug/L			10/02/23 18:56	5
1,2-Dibromoethane (EDB)	1.7	U	5.0	1.7	ug/L			10/02/23 18:56	5
1,2-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/02/23 18:56	5
1,2-Dichloroethane	1.3	U	5.0	1.3	ug/L			10/02/23 18:56	5
1,2-Dichloropropane	1.1	U	5.0	1.1	ug/L			10/02/23 18:56	5
1,3-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/02/23 18:56	5
1,4-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/02/23 18:56	5
2-Butanone (MEK)	32	U	50	32	ug/L			10/02/23 18:56	5
2-Hexanone	16	U	50	16	ug/L			10/02/23 18:56	5
4-Methyl-2-pentanone	14	U	50	14	ug/L			10/02/23 18:56	5
Acetone	19	U	50	19	ug/L			10/02/23 18:56	5
Benzene	1.4	U	5.0	1.4	ug/L			10/02/23 18:56	5
Bromodichloromethane	1.3	U	5.0	1.3	ug/L			10/02/23 18:56	5
Bromoform	3.0	U	5.0	3.0	ug/L			10/02/23 18:56	5
Bromomethane	19	U	25	19	ug/L			10/02/23 18:56	5
Carbon disulfide	2.2	U	10	2.2	ug/L			10/02/23 18:56	5
Carbon tetrachloride	1.5	U	5.0	1.5	ug/L			10/02/23 18:56	5
Chlorobenzene	0.75	U	5.0	0.75	ug/L			10/02/23 18:56	5
Chloroethane	23	U J3	25	23	ug/L			10/02/23 18:56	5
Chloroform	1.4	U	5.0	1.4	ug/L			10/02/23 18:56	5
Chloromethane	2.7	U	5.0	2.7	ug/L			10/02/23 18:56	5

Client Sample ID: LC34-DPT0927-013.0-20230921
Lab Sample ID: 670-27244-20

Date Collected: 09/21/23 12:25
Matrix: Water
Date Received: 09/22/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**66**		5.0	1.3	ug/L			10/02/23 18:56	5
cis-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			10/02/23 18:56	5
Cyclohexane	1.4	U	5.0	1.4	ug/L			10/02/23 18:56	5
Dibromochloromethane	2.0	U	5.0	2.0	ug/L			10/02/23 18:56	5
Dichlorodifluoromethane	1.8	U	5.0	1.8	ug/L			10/02/23 18:56	5
Ethylbenzene	1.0	U	5.0	1.0	ug/L			10/02/23 18:56	5
Isopropylbenzene	1.3	U	5.0	1.3	ug/L			10/02/23 18:56	5
m,p-Xylenes	2.5	U	5.0	2.5	ug/L			10/02/23 18:56	5
Methyl acetate	16	U	25	16	ug/L			10/02/23 18:56	5
Methyl tert-butyl ether	4.1	U	25	4.1	ug/L			10/02/23 18:56	5
Methylene Chloride	16	U	25	16	ug/L			10/02/23 18:56	5
o-Xylene	1.3	U	5.0	1.3	ug/L			10/02/23 18:56	5
Styrene	1.4	U	5.0	1.4	ug/L			10/02/23 18:56	5
Tetrachloroethene	1.8	U	5.0	1.8	ug/L			10/02/23 18:56	5
Toluene	1.3	U	5.0	1.3	ug/L			10/02/23 18:56	5
trans-1,2-Dichloroethene	1.7	U	5.0	1.7	ug/L			10/02/23 18:56	5
trans-1,3-Dichloropropene	1.2	U	5.0	1.2	ug/L			10/02/23 18:56	5
Trichloroethene	1.0	U	5.0	1.0	ug/L			10/02/23 18:56	5
Trichlorofluoromethane	1.7	U	5.0	1.7	ug/L			10/02/23 18:56	5
Vinyl chloride	**340**		5.0	2.0	ug/L			10/02/23 18:56	5
Xylenes, Total	1.2	U	5.0	1.2	ug/L			10/02/23 18:56	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 124*		*10/02/23 18:56*	*5*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*		*10/02/23 18:56*	*5*
Dibromofluoromethane (Surr)	*111*		*70 - 130*		*10/02/23 18:56*	*5*
Toluene-d8 (Surr)	*90*		*70 - 130*		*10/02/23 18:56*	*5*

Client Sample ID: LC34-DPT0927-018.0-20230921
Lab Sample ID: 670-27244-21

Date Collected: 09/21/23 12:40
Matrix: Water
Date Received: 09/22/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	5.0	1.1	ug/L			10/03/23 22:13	5
1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	ug/L			10/03/23 22:13	5
1,1,2-Trichloro-1,2,2-trifluoroethane	1.2	U	5.0	1.2	ug/L			10/03/23 22:13	5
1,1,2-Trichloroethane	1.6	U	5.0	1.6	ug/L			10/03/23 22:13	5
1,1-Dichloroethane	1.7	U	5.0	1.7	ug/L			10/03/23 22:13	5
1,1-Dichloroethene	1.7	U	5.0	1.7	ug/L			10/03/23 22:13	5
1,2,4-Trichlorobenzene	2.7	U	25	2.7	ug/L			10/03/23 22:13	5
1,2-Dibromo-3-Chloropropane	9.0	U J3	25	9.0	ug/L			10/03/23 22:13	5
1,2-Dibromoethane (EDB)	1.7	U	5.0	1.7	ug/L			10/03/23 22:13	5
1,2-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/03/23 22:13	5
1,2-Dichloroethane	1.3	U	5.0	1.3	ug/L			10/03/23 22:13	5
1,2-Dichloropropane	1.1	U	5.0	1.1	ug/L			10/03/23 22:13	5
1,3-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/03/23 22:13	5
1,4-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/03/23 22:13	5
2-Butanone (MEK)	32	U	50	32	ug/L			10/03/23 22:13	5
2-Hexanone	16	U	50	16	ug/L			10/03/23 22:13	5

Client Sample ID: LC34-DPT0927-018.0-20230921

Lab Sample ID: 670-27244-21

Date Collected: 09/21/23 12:40

Matrix: Water

Date Received: 09/22/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone	14	U	50	14	ug/L			10/03/23 22:13	5
Acetone	19	U	50	19	ug/L			10/03/23 22:13	5
Benzene	1.4	U	5.0	1.4	ug/L			10/03/23 22:13	5
Bromodichloromethane	1.3	U	5.0	1.3	ug/L			10/03/23 22:13	5
Bromoform	3.0	U	5.0	3.0	ug/L			10/03/23 22:13	5
Bromomethane	19	U	25	19	ug/L			10/03/23 22:13	5
Carbon disulfide	2.2	U	10	2.2	ug/L			10/03/23 22:13	5
Carbon tetrachloride	1.5	U	5.0	1.5	ug/L			10/03/23 22:13	5
Chlorobenzene	0.75	U	5.0	0.75	ug/L			10/03/23 22:13	5
Chloroethane	23	U J3	25	23	ug/L			10/03/23 22:13	5
Chloroform	1.4	U	5.0	1.4	ug/L			10/03/23 22:13	5
Chloromethane	2.7	U	5.0	2.7	ug/L			10/03/23 22:13	5
cis-1,2-Dichloroethene	**330**		5.0	1.3	ug/L			10/03/23 22:13	5
cis-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			10/03/23 22:13	5
Cyclohexane	1.4	U	5.0	1.4	ug/L			10/03/23 22:13	5
Dibromochloromethane	2.0	U	5.0	2.0	ug/L			10/03/23 22:13	5
Dichlorodifluoromethane	1.8	U	5.0	1.8	ug/L			10/03/23 22:13	5
Ethylbenzene	1.0	U	5.0	1.0	ug/L			10/03/23 22:13	5
Isopropylbenzene	1.3	U	5.0	1.3	ug/L			10/03/23 22:13	5
m,p-Xylenes	2.5	U	5.0	2.5	ug/L			10/03/23 22:13	5
Methyl acetate	16	U	25	16	ug/L			10/03/23 22:13	5
Methyl tert-butyl ether	4.1	U	25	4.1	ug/L			10/03/23 22:13	5
Methylene Chloride	16	U	25	16	ug/L			10/03/23 22:13	5
o-Xylene	1.3	U	5.0	1.3	ug/L			10/03/23 22:13	5
Styrene	1.4	U	5.0	1.4	ug/L			10/03/23 22:13	5
Tetrachloroethene	1.8	U	5.0	1.8	ug/L			10/03/23 22:13	5
Toluene	1.3	U	5.0	1.3	ug/L			10/03/23 22:13	5
trans-1,2-Dichloroethene	**5.5**		5.0	1.7	ug/L			10/03/23 22:13	5
trans-1,3-Dichloropropene	1.2	U	5.0	1.2	ug/L			10/03/23 22:13	5
Trichloroethene	1.0	U	5.0	1.0	ug/L			10/03/23 22:13	5
Trichlorofluoromethane	1.7	U J3	5.0	1.7	ug/L			10/03/23 22:13	5
Vinyl chloride	**210**		5.0	2.0	ug/L			10/03/23 22:13	5
Xylenes, Total	1.2	U	5.0	1.2	ug/L			10/03/23 22:13	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 124*		*10/03/23 22:13*	*5*
4-Bromofluorobenzene (Surr)	*81*		*70 - 130*		*10/03/23 22:13*	*5*
Dibromofluoromethane (Surr)	*106*		*70 - 130*		*10/03/23 22:13*	*5*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/03/23 22:13*	*5*

Client Sample ID: LC34-DPT0927-025.0-20230921

Lab Sample ID: 670-27244-22

Date Collected: 09/21/23 12:55

Matrix: Water

Date Received: 09/22/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2.1	U	10	2.1	ug/L			10/03/23 22:36	10
1,1,2,2-Tetrachloroethane	4.0	U	10	4.0	ug/L			10/03/23 22:36	10
1,1,2-Trichloro-1,2,2-trifluoroethane	2.3	U	10	2.3	ug/L			10/03/23 22:36	10
1,1,2-Trichloroethane	3.2	U	10	3.2	ug/L			10/03/23 22:36	10

Client Sample ID: LC34-DPT0927-025.0-20230921
Date Collected: 09/21/23 12:55
Date Received: 09/22/23 08:00

Lab Sample ID: 670-27244-22
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	3.3	U	10	3.3	ug/L			10/03/23 22:36	10
1,1-Dichloroethene	3.3	U	10	3.3	ug/L			10/03/23 22:36	10
1,2,4-Trichlorobenzene	5.3	U	50	5.3	ug/L			10/03/23 22:36	10
1,2-Dibromo-3-Chloropropane	18	U J3	50	18	ug/L			10/03/23 22:36	10
1,2-Dibromoethane (EDB)	3.3	U	10	3.3	ug/L			10/03/23 22:36	10
1,2-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/03/23 22:36	10
1,2-Dichloroethane	2.5	U	10	2.5	ug/L			10/03/23 22:36	10
1,2-Dichloropropane	2.2	U	10	2.2	ug/L			10/03/23 22:36	10
1,3-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/03/23 22:36	10
1,4-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/03/23 22:36	10
2-Butanone (MEK)	64	U	100	64	ug/L			10/03/23 22:36	10
2-Hexanone	32	U	100	32	ug/L			10/03/23 22:36	10
4-Methyl-2-pentanone	27	U	100	27	ug/L			10/03/23 22:36	10
Acetone	37	U	100	37	ug/L			10/03/23 22:36	10
Benzene	2.7	U	10	2.7	ug/L			10/03/23 22:36	10
Bromodichloromethane	2.5	U	10	2.5	ug/L			10/03/23 22:36	10
Bromoform	5.9	U	10	5.9	ug/L			10/03/23 22:36	10
Bromomethane	37	U	50	37	ug/L			10/03/23 22:36	10
Carbon disulfide	4.3	U	20	4.3	ug/L			10/03/23 22:36	10
Carbon tetrachloride	3.0	U	10	3.0	ug/L			10/03/23 22:36	10
Chlorobenzene	1.5	U	10	1.5	ug/L			10/03/23 22:36	10
Chloroethane	46	U J3	50	46	ug/L			10/03/23 22:36	10
Chloroform	2.7	U	10	2.7	ug/L			10/03/23 22:36	10
Chloromethane	5.4	U	10	5.4	ug/L			10/03/23 22:36	10
cis-1,2-Dichloroethene	**820**		10	2.5	ug/L			10/03/23 22:36	10
cis-1,3-Dichloropropene	2.6	U	10	2.6	ug/L			10/03/23 22:36	10
Cyclohexane	2.8	U	10	2.8	ug/L			10/03/23 22:36	10
Dibromochloromethane	3.9	U	10	3.9	ug/L			10/03/23 22:36	10
Dichlorodifluoromethane	3.6	U	10	3.6	ug/L			10/03/23 22:36	10
Ethylbenzene	2.0	U	10	2.0	ug/L			10/03/23 22:36	10
Isopropylbenzene	2.6	U	10	2.6	ug/L			10/03/23 22:36	10
m,p-Xylenes	4.9	U	10	4.9	ug/L			10/03/23 22:36	10
Methyl acetate	32	U	50	32	ug/L			10/03/23 22:36	10
Methyl tert-butyl ether	8.1	U	50	8.1	ug/L			10/03/23 22:36	10
Methylene Chloride	32	U	50	32	ug/L			10/03/23 22:36	10
o-Xylene	2.6	U	10	2.6	ug/L			10/03/23 22:36	10
Styrene	2.7	U	10	2.7	ug/L			10/03/23 22:36	10
Tetrachloroethene	3.5	U	10	3.5	ug/L			10/03/23 22:36	10
Toluene	2.5	U	10	2.5	ug/L			10/03/23 22:36	10
trans-1,2-Dichloroethene	**9.5**	**I**	10	3.4	ug/L			10/03/23 22:36	10
trans-1,3-Dichloropropene	2.3	U	10	2.3	ug/L			10/03/23 22:36	10
Trichloroethene	2.0	U	10	2.0	ug/L			10/03/23 22:36	10
Trichlorofluoromethane	3.3	U J3	10	3.3	ug/L			10/03/23 22:36	10
Vinyl chloride	**180**		10	4.0	ug/L			10/03/23 22:36	10
Xylenes, Total	2.3	U	10	2.3	ug/L			10/03/23 22:36	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 124*		*10/03/23 22:36*	*10*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*		*10/03/23 22:36*	*10*
Dibromofluoromethane (Surr)	*106*		*70 - 130*		*10/03/23 22:36*	*10*

Client Sample ID: LC34-DPT0927-025.0-20230921
Lab Sample ID: 670-27244-22

Date Collected: 09/21/23 12:55
Matrix: Water
Date Received: 09/22/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/03/23 22:36*	*10*

Client Sample ID: LC34-DPT0927-034.0-20230921
Lab Sample ID: 670-27244-23

Date Collected: 09/21/23 13:15
Matrix: Water
Date Received: 09/22/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/03/23 19:06	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/03/23 19:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/03/23 19:06	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/03/23 19:06	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/03/23 19:06	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/03/23 19:06	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/03/23 19:06	1
1,2-Dibromo-3-Chloropropane	1.8	U J3	5.0	1.8	ug/L			10/03/23 19:06	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/03/23 19:06	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/03/23 19:06	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/03/23 19:06	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/03/23 19:06	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/03/23 19:06	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/03/23 19:06	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/03/23 19:06	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/03/23 19:06	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/03/23 19:06	1
Acetone	3.7	U	10	3.7	ug/L			10/03/23 19:06	1
Benzene	0.27	U	1.0	0.27	ug/L			10/03/23 19:06	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/03/23 19:06	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/03/23 19:06	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/03/23 19:06	1
Carbon disulfide	**0.58**	**I**	2.0	0.43	ug/L			10/03/23 19:06	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/03/23 19:06	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/03/23 19:06	1
Chloroethane	4.6	U J3	5.0	4.6	ug/L			10/03/23 19:06	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/03/23 19:06	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/03/23 19:06	1
cis-1,2-Dichloroethene	**85**		1.0	0.25	ug/L			10/03/23 19:06	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/03/23 19:06	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/03/23 19:06	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/03/23 19:06	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/03/23 19:06	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/03/23 19:06	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/03/23 19:06	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/03/23 19:06	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/03/23 19:06	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/03/23 19:06	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/03/23 19:06	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/03/23 19:06	1
Styrene	0.27	U	1.0	0.27	ug/L			10/03/23 19:06	1

Client Sample ID: LC34-DPT0927-034.0-20230921
Lab Sample ID: 670-27244-23

Date Collected: 09/21/23 13:15
Matrix: Water
Date Received: 09/22/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/03/23 19:06	1
Toluene	0.25	U	1.0	0.25	ug/L			10/03/23 19:06	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/03/23 19:06	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/03/23 19:06	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/03/23 19:06	1
Trichlorofluoromethane	0.33	U J3	1.0	0.33	ug/L			10/03/23 19:06	1
Vinyl chloride	**11**		1.0	0.40	ug/L			10/03/23 19:06	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/03/23 19:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 124*		*10/03/23 19:06*	*1*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*		*10/03/23 19:06*	*1*
Dibromofluoromethane (Surr)	*108*		*70 - 130*		*10/03/23 19:06*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/03/23 19:06*	*1*

Client Sample ID: LC34-DPT0927-038.0-20230921
Lab Sample ID: 670-27244-24

Date Collected: 09/21/23 13:35
Matrix: Water
Date Received: 09/22/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/02/23 20:16	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/02/23 20:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/02/23 20:16	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/02/23 20:16	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/02/23 20:16	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/02/23 20:16	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/02/23 20:16	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/02/23 20:16	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/02/23 20:16	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/02/23 20:16	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/02/23 20:16	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/02/23 20:16	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/02/23 20:16	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/02/23 20:16	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/02/23 20:16	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/02/23 20:16	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/02/23 20:16	1
Acetone	3.7	U	10	3.7	ug/L			10/02/23 20:16	1
Benzene	0.27	U	1.0	0.27	ug/L			10/02/23 20:16	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/02/23 20:16	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/02/23 20:16	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/02/23 20:16	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/02/23 20:16	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/02/23 20:16	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/02/23 20:16	1
Chloroethane	4.6	U J3	5.0	4.6	ug/L			10/02/23 20:16	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/02/23 20:16	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/02/23 20:16	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/02/23 20:16	1

Client: Tetra Tech, Inc.
Job ID: 670-27244-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT0927-038.0-20230921
Lab Sample ID: 670-27244-24
Date Collected: 09/21/23 13:35
Matrix: Water
Date Received: 09/22/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/02/23 20:16	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/02/23 20:16	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/02/23 20:16	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/02/23 20:16	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/02/23 20:16	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/02/23 20:16	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/02/23 20:16	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/02/23 20:16	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/02/23 20:16	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/02/23 20:16	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/02/23 20:16	1
Styrene	0.27	U	1.0	0.27	ug/L			10/02/23 20:16	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/02/23 20:16	1
Toluene	0.25	U	1.0	0.25	ug/L			10/02/23 20:16	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/02/23 20:16	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/02/23 20:16	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/02/23 20:16	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/02/23 20:16	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/02/23 20:16	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/02/23 20:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 124*		*10/02/23 20:16*	*1*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*		*10/02/23 20:16*	*1*
Dibromofluoromethane (Surr)	*110*		*70 - 130*		*10/02/23 20:16*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*10/02/23 20:16*	*1*

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27244-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(60-124)	(70-130)	(70-130)	(70-130)
670-27244-1	LC34-DPT0924-008.0-20230920	99	96	108	95
670-27244-2	LC34-DPT0924-013.0-20230920	103	82	108	100
670-27244-3	LC34-DPT0924-018.0-20230920	104	83	109	101
670-27244-4	LC34-DPT0924-025.0-20230920	104	90	111	92
670-27244-5	LC34-DPT0924-034.0-20230920	102	92	113	95
670-27244-6	LC34-DPT0924-038.0-20230920	100	91	111	94
670-27244-7	LC34-DPT0925-008.0-20230921	102	88	112	95
670-27244-8	LC34-DPT0-925-013.0-20230921	104	83	108	102
670-27244-9	LC34-DPT0925-018.0-20230921	104	83	109	101
670-27244-10	LC34-DPT0925-025.0-20230921	104	83	110	102
670-27244-11	LC34-DPT0925-034.0-20230921	103	89	111	94
670-27244-12	LC34-DPT0925-038.0-20230921	104	89	111	93
670-27244-13	LC34-DPT0926-008.0-20230921	101	90	110	95
670-27244-14	LC34-DPT0926-013.020230921	105	82	109	100
670-27244-15	LC34-DPT0926-018.0-20230921	104	83	110	101
670-27244-16	LC34-DPT0926-025.0-20230921	104	84	110	102
670-27244-17	LC34-DPT0926-034.020230921	105	83	110	102
670-27244-18	LC34-DPT0926-038.0-20230921	102	90	109	93
670-27244-19	LC34-DPT0927-008.0-20230921	103	89	110	95
670-27244-20	LC34-DPT0927-013.0-20230921	105	90	111	90
670-27244-21	LC34-DPT0927-018.0-20230921	102	81	106	100
670-27244-22	LC34-DPT0927-025.0-20230921	103	82	106	101
670-27244-23	LC34-DPT0927-034.0-20230921	104	82	108	101
670-27244-24	LC34-DPT0927-038.0-20230921	102	89	110	95
LCS 680-800524/3	Lab Control Sample	101	89	105	94
LCS 680-800743/5	Lab Control Sample	106	89	109	98
LCSD 680-800524/4	Lab Control Sample Dup	100	91	101	96
LCSD 680-800743/6	Lab Control Sample Dup	106	89	109	99
MB 680-800524/7	Method Blank	97	95	99	96
MB 680-800743/10	Method Blank	105	81	109	101

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

Surrogate Summary

Client: Tetra Tech, Inc.
Job ID: 670-27244-1
Project/Site: NASA KSC LC34 DPT

DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 680-800524/7
Matrix: Water
Analysis Batch: 800524

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/02/23 11:59	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/02/23 11:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/02/23 11:59	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/02/23 11:59	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/02/23 11:59	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/02/23 11:59	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/02/23 11:59	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/02/23 11:59	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/02/23 11:59	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/02/23 11:59	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/02/23 11:59	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/02/23 11:59	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/02/23 11:59	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/02/23 11:59	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/02/23 11:59	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/02/23 11:59	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/02/23 11:59	1
Acetone	3.7	U	10	3.7	ug/L			10/02/23 11:59	1
Benzene	0.27	U	1.0	0.27	ug/L			10/02/23 11:59	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/02/23 11:59	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/02/23 11:59	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/02/23 11:59	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/02/23 11:59	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/02/23 11:59	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/02/23 11:59	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/02/23 11:59	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/02/23 11:59	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/02/23 11:59	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/02/23 11:59	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/02/23 11:59	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/02/23 11:59	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/02/23 11:59	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/02/23 11:59	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/02/23 11:59	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/02/23 11:59	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/02/23 11:59	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/02/23 11:59	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/02/23 11:59	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/02/23 11:59	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/02/23 11:59	1
Styrene	0.27	U	1.0	0.27	ug/L			10/02/23 11:59	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/02/23 11:59	1
Toluene	0.25	U	1.0	0.25	ug/L			10/02/23 11:59	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/02/23 11:59	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/02/23 11:59	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/02/23 11:59	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/02/23 11:59	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/02/23 11:59	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-800524/7
Matrix: Water
Analysis Batch: 800524

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/02/23 11:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 124*		*10/02/23 11:59*	*1*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*10/02/23 11:59*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*10/02/23 11:59*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*10/02/23 11:59*	*1*

Lab Sample ID: LCS 680-800524/3
Matrix: Water
Analysis Batch: 800524

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	53.1		ug/L		106	70 - 130
1,1,2,2-Tetrachloroethane	50.0	48.9		ug/L		98	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	47.5		ug/L		95	63 - 141
1,1,2-Trichloroethane	50.0	48.8		ug/L		98	70 - 130
1,1-Dichloroethane	50.0	50.0		ug/L		100	70 - 130
1,1-Dichloroethene	50.0	58.9		ug/L		118	70 - 130
1,2,4-Trichlorobenzene	50.0	54.8		ug/L		110	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	48.3		ug/L		97	70 - 130
1,2-Dibromoethane (EDB)	50.0	49.2		ug/L		98	70 - 130
1,2-Dichlorobenzene	50.0	48.4		ug/L		97	70 - 130
1,2-Dichloroethane	50.0	48.0		ug/L		96	70 - 130
1,2-Dichloropropane	50.0	50.6		ug/L		101	70 - 130
1,3-Dichlorobenzene	50.0	47.2		ug/L		94	70 - 130
1,4-Dichlorobenzene	50.0	46.9		ug/L		94	70 - 130
2-Butanone (MEK)	250	277		ug/L		111	69 - 120
2-Hexanone	250	273		ug/L		109	70 - 130
4-Methyl-2-pentanone	250	272		ug/L		109	68 - 120
Acetone	250	300		ug/L		120	67 - 120
Benzene	50.0	49.5		ug/L		99	70 - 130
Bromodichloromethane	50.0	54.6		ug/L		109	70 - 130
Bromoform	50.0	46.0		ug/L		92	69 - 129
Bromomethane	50.0	60.4		ug/L		121	28 - 192
Carbon disulfide	50.0	56.7		ug/L		113	70 - 130
Carbon tetrachloride	50.0	55.0		ug/L		110	70 - 130
Chlorobenzene	50.0	48.0		ug/L		96	70 - 130
Chloroethane	50.0	91.9		ug/L		184	31 - 213
Chloroform	50.0	47.9		ug/L		96	70 - 130
Chloromethane	50.0	56.0		ug/L		112	59 - 127
cis-1,2-Dichloroethene	50.0	49.9		ug/L		100	70 - 130
cis-1,3-Dichloropropene	50.0	52.6		ug/L		105	70 - 130
Cyclohexane	50.0	52.9		ug/L		106	23 - 175
Dibromochloromethane	50.0	51.3		ug/L		103	70 - 130
Dichlorodifluoromethane	50.0	47.3		ug/L		95	70 - 130
Ethylbenzene	50.0	48.2		ug/L		96	70 - 130
Isopropylbenzene	50.0	49.8		ug/L		100	70 - 130

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-800524/3
Matrix: Water
Analysis Batch: 800524

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
m,p-Xylenes	50.0	48.4		ug/L		97	70 - 130
Methyl acetate	100	84.5		ug/L		85	67 - 120
Methyl tert-butyl ether	50.0	47.1		ug/L		94	70 - 130
Methylene Chloride	50.0	52.1		ug/L		104	70 - 130
o-Xylene	50.0	48.1		ug/L		96	70 - 130
Styrene	50.0	49.9		ug/L		100	70 - 130
Tetrachloroethene	50.0	52.9		ug/L		106	70 - 130
Toluene	50.0	50.4		ug/L		101	70 - 130
trans-1,2-Dichloroethene	50.0	48.7		ug/L		97	70 - 130
trans-1,3-Dichloropropene	50.0	53.1		ug/L		106	70 - 130
Trichloroethene	50.0	50.3		ug/L		101	70 - 130
Trichlorofluoromethane	50.0	61.7		ug/L		123	63 - 142
Vinyl chloride	50.0	59.6		ug/L		119	66 - 129
Xylenes, Total	100	96.5		ug/L		97	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 124*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*
Dibromofluoromethane (Surr)	*105*		*70 - 130*
Toluene-d8 (Surr)	*94*		*70 - 130*

Lab Sample ID: LCSD 680-800524/4
Matrix: Water
Analysis Batch: 800524

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	50.0	53.3		ug/L		107	70 - 130	0	30
1,1,2,2-Tetrachloroethane	50.0	49.4		ug/L		99	70 - 130	1	30
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	46.7		ug/L		93	63 - 141	2	30
1,1,2-Trichloroethane	50.0	48.3		ug/L		97	70 - 130	1	30
1,1-Dichloroethane	50.0	51.2		ug/L		102	70 - 130	2	30
1,1-Dichloroethene	50.0	57.7		ug/L		115	70 - 130	2	20
1,2,4-Trichlorobenzene	50.0	56.6		ug/L		113	70 - 130	3	30
1,2-Dibromo-3-Chloropropane	50.0	49.9		ug/L		100	70 - 130	3	30
1,2-Dibromoethane (EDB)	50.0	49.6		ug/L		99	70 - 130	1	30
1,2-Dichlorobenzene	50.0	49.8		ug/L		100	70 - 130	3	30
1,2-Dichloroethane	50.0	47.6		ug/L		95	70 - 130	1	50
1,2-Dichloropropane	50.0	51.3		ug/L		103	70 - 130	1	20
1,3-Dichlorobenzene	50.0	48.8		ug/L		98	70 - 130	3	30
1,4-Dichlorobenzene	50.0	48.9		ug/L		98	70 - 130	4	30
2-Butanone (MEK)	250	285		ug/L		114	69 - 120	3	30
2-Hexanone	250	270		ug/L		108	70 - 130	1	20
4-Methyl-2-pentanone	250	273		ug/L		109	68 - 120	0	30
Acetone	250	299		ug/L		120	67 - 120	0	30
Benzene	50.0	50.0		ug/L		100	70 - 130	1	30
Bromodichloromethane	50.0	55.5		ug/L		111	70 - 130	2	30
Bromoform	50.0	46.3		ug/L		93	69 - 129	1	30
Bromomethane	50.0	62.5		ug/L		125	28 - 192	3	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-800524/4
Matrix: Water
Analysis Batch: 800524

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon disulfide	50.0	58.2		ug/L		116	70 - 130	3	30
Carbon tetrachloride	50.0	54.0		ug/L		108	70 - 130	2	30
Chlorobenzene	50.0	49.0		ug/L		98	70 - 130	2	30
Chloroethane	50.0	91.0		ug/L		182	31 - 213	1	30
Chloroform	50.0	48.6		ug/L		97	70 - 130	2	30
Chloromethane	50.0	56.4		ug/L		113	59 - 127	1	30
cis-1,2-Dichloroethene	50.0	50.4		ug/L		101	70 - 130	1	30
cis-1,3-Dichloropropene	50.0	53.0		ug/L		106	70 - 130	1	20
Cyclohexane	50.0	52.8		ug/L		106	23 - 175	0	30
Dibromochloromethane	50.0	50.9		ug/L		102	70 - 130	1	30
Dichlorodifluoromethane	50.0	52.2		ug/L		104	70 - 130	10	40
Ethylbenzene	50.0	49.5		ug/L		99	70 - 130	3	20
Isopropylbenzene	50.0	50.1		ug/L		100	70 - 130	1	30
m,p-Xylenes	50.0	49.1		ug/L		98	70 - 130	2	30
Methyl acetate	100	84.8		ug/L		85	67 - 120	0	30
Methyl tert-butyl ether	50.0	47.1		ug/L		94	70 - 130	0	30
Methylene Chloride	50.0	53.3		ug/L		107	70 - 130	2	30
o-Xylene	50.0	48.9		ug/L		98	70 - 130	2	30
Styrene	50.0	50.9		ug/L		102	70 - 130	2	30
Tetrachloroethene	50.0	52.5		ug/L		105	70 - 130	1	30
Toluene	50.0	50.7		ug/L		101	70 - 130	1	30
trans-1,2-Dichloroethene	50.0	55.8		ug/L		112	70 - 130	13	30
trans-1,3-Dichloropropene	50.0	53.1		ug/L		106	70 - 130	0	30
Trichloroethene	50.0	50.4		ug/L		101	70 - 130	0	30
Trichlorofluoromethane	50.0	62.2		ug/L		124	63 - 142	1	30
Vinyl chloride	50.0	59.9		ug/L		120	66 - 129	1	30
Xylenes, Total	100	98.0		ug/L		98	70 - 130	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 124*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*96*		*70 - 130*

Lab Sample ID: MB 680-800743/10
Matrix: Water
Analysis Batch: 800743

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/03/23 14:26	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/03/23 14:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/03/23 14:26	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/03/23 14:26	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/03/23 14:26	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/03/23 14:26	1
1,2,4-Trichlorobenzene	0.793	I	5.0	0.53	ug/L			10/03/23 14:26	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/03/23 14:26	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/03/23 14:26	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-800743/10
Matrix: Water
Analysis Batch: 800743

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/03/23 14:26	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/03/23 14:26	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/03/23 14:26	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/03/23 14:26	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/03/23 14:26	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/03/23 14:26	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/03/23 14:26	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/03/23 14:26	1
Acetone	3.7	U	10	3.7	ug/L			10/03/23 14:26	1
Benzene	0.27	U	1.0	0.27	ug/L			10/03/23 14:26	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/03/23 14:26	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/03/23 14:26	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/03/23 14:26	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/03/23 14:26	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/03/23 14:26	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/03/23 14:26	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/03/23 14:26	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/03/23 14:26	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/03/23 14:26	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/03/23 14:26	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/03/23 14:26	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/03/23 14:26	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/03/23 14:26	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/03/23 14:26	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/03/23 14:26	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/03/23 14:26	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/03/23 14:26	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/03/23 14:26	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/03/23 14:26	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/03/23 14:26	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/03/23 14:26	1
Styrene	0.27	U	1.0	0.27	ug/L			10/03/23 14:26	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/03/23 14:26	1
Toluene	0.25	U	1.0	0.25	ug/L			10/03/23 14:26	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/03/23 14:26	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/03/23 14:26	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/03/23 14:26	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/03/23 14:26	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/03/23 14:26	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/03/23 14:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 124*		*10/03/23 14:26*	*1*
4-Bromofluorobenzene (Surr)	*81*		*70 - 130*		*10/03/23 14:26*	*1*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*10/03/23 14:26*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/03/23 14:26*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-800743/5
Matrix: Water
Analysis Batch: 800743

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	50.4		ug/L		101	70 - 130
1,1,2,2-Tetrachloroethane	50.0	44.6		ug/L		89	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	51.4		ug/L		103	63 - 141
1,1,2-Trichloroethane	50.0	44.5		ug/L		89	70 - 130
1,1-Dichloroethane	50.0	45.1		ug/L		90	70 - 130
1,1-Dichloroethene	50.0	46.9		ug/L		94	70 - 130
1,2,4-Trichlorobenzene	50.0	42.2		ug/L		84	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	32.7	J3	ug/L		65	70 - 130
1,2-Dibromoethane (EDB)	50.0	48.1		ug/L		96	70 - 130
1,2-Dichlorobenzene	50.0	46.3		ug/L		93	70 - 130
1,2-Dichloroethane	50.0	50.4		ug/L		101	70 - 130
1,2-Dichloropropane	50.0	43.0		ug/L		86	70 - 130
1,3-Dichlorobenzene	50.0	46.7		ug/L		93	70 - 130
1,4-Dichlorobenzene	50.0	47.4		ug/L		95	70 - 130
2-Butanone (MEK)	250	200		ug/L		80	69 - 120
2-Hexanone	250	198		ug/L		79	70 - 130
4-Methyl-2-pentanone	250	210		ug/L		84	68 - 120
Acetone	250	190		ug/L		76	67 - 120
Benzene	50.0	45.9		ug/L		92	70 - 130
Bromodichloromethane	50.0	48.9		ug/L		98	70 - 130
Bromoform	50.0	51.7		ug/L		103	69 - 129
Bromomethane	50.0	90.9		ug/L		182	28 - 192
Carbon disulfide	50.0	46.1		ug/L		92	70 - 130
Carbon tetrachloride	50.0	55.1		ug/L		110	70 - 130
Chlorobenzene	50.0	50.1		ug/L		100	70 - 130
Chloroethane	50.0	102		ug/L		204	31 - 213
Chloroform	50.0	49.9		ug/L		100	70 - 130
Chloromethane	50.0	32.0		ug/L		64	59 - 127
cis-1,2-Dichloroethene	50.0	47.3		ug/L		95	70 - 130
cis-1,3-Dichloropropene	50.0	45.0		ug/L		90	70 - 130
Cyclohexane	50.0	44.1		ug/L		88	23 - 175
Dibromochloromethane	50.0	51.4		ug/L		103	70 - 130
Dichlorodifluoromethane	50.0	37.1		ug/L		74	70 - 130
Ethylbenzene	50.0	49.0		ug/L		98	70 - 130
Isopropylbenzene	50.0	49.4		ug/L		99	70 - 130
m,p-Xylenes	50.0	47.9		ug/L		96	70 - 130
Methyl acetate	100	68.1		ug/L		68	67 - 120
Methyl tert-butyl ether	50.0	45.4		ug/L		91	70 - 130
Methylene Chloride	50.0	49.7		ug/L		99	70 - 130
o-Xylene	50.0	48.3		ug/L		97	70 - 130
Styrene	50.0	48.8		ug/L		98	70 - 130
Tetrachloroethene	50.0	51.8		ug/L		104	70 - 130
Toluene	50.0	46.1		ug/L		92	70 - 130
trans-1,2-Dichloroethene	50.0	48.1		ug/L		96	70 - 130
trans-1,3-Dichloropropene	50.0	47.0		ug/L		94	70 - 130
Trichloroethene	50.0	49.1		ug/L		98	70 - 130
Trichlorofluoromethane	50.0	97.9	J3	ug/L		196	63 - 142
Vinyl chloride	50.0	40.8		ug/L		82	66 - 129

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-800743/5
Matrix: Water
Analysis Batch: 800743

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Xylenes, Total			100	96.2		ug/L		96	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*60 - 124*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*
Dibromofluoromethane (Surr)	*109*		*70 - 130*
Toluene-d8 (Surr)	*98*		*70 - 130*

Lab Sample ID: LCSD 680-800743/6
Matrix: Water
Analysis Batch: 800743

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane			50.0	49.8		ug/L		100	70 - 130	1	30
1,1,2,2-Tetrachloroethane			50.0	43.6		ug/L		87	70 - 130	2	30
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	50.9		ug/L		102	63 - 141	1	30
1,1,2-Trichloroethane			50.0	44.9		ug/L		90	70 - 130	1	30
1,1-Dichloroethane			50.0	44.8		ug/L		90	70 - 130	1	30
1,1-Dichloroethene			50.0	47.4		ug/L		95	70 - 130	1	20
1,2,4-Trichlorobenzene			50.0	43.5		ug/L		87	70 - 130	3	30
1,2-Dibromo-3-Chloropropane			50.0	32.7	J3	ug/L		65	70 - 130	0	30
1,2-Dibromoethane (EDB)			50.0	47.5		ug/L		95	70 - 130	1	30
1,2-Dichlorobenzene			50.0	46.6		ug/L		93	70 - 130	1	30
1,2-Dichloroethane			50.0	50.8		ug/L		102	70 - 130	1	50
1,2-Dichloropropane			50.0	43.2		ug/L		86	70 - 130	1	20
1,3-Dichlorobenzene			50.0	46.0		ug/L		92	70 - 130	2	30
1,4-Dichlorobenzene			50.0	46.6		ug/L		93	70 - 130	2	30
2-Butanone (MEK)			250	198		ug/L		79	69 - 120	1	30
2-Hexanone			250	192		ug/L		77	70 - 130	3	20
4-Methyl-2-pentanone			250	203		ug/L		81	68 - 120	3	30
Acetone			250	178		ug/L		71	67 - 120	7	30
Benzene			50.0	44.6		ug/L		89	70 - 130	3	30
Bromodichloromethane			50.0	48.2		ug/L		96	70 - 130	1	30
Bromoform			50.0	50.6		ug/L		101	69 - 129	2	30
Bromomethane			50.0	95.2		ug/L		190	28 - 192	5	30
Carbon disulfide			50.0	45.2		ug/L		90	70 - 130	2	30
Carbon tetrachloride			50.0	55.6		ug/L		111	70 - 130	1	30
Chlorobenzene			50.0	50.6		ug/L		101	70 - 130	1	30
Chloroethane			50.0	107	J3	ug/L		214	31 - 213	5	30
Chloroform			50.0	50.2		ug/L		100	70 - 130	1	30
Chloromethane			50.0	31.3		ug/L		63	59 - 127	2	30
cis-1,2-Dichloroethene			50.0	47.3		ug/L		95	70 - 130	0	30
cis-1,3-Dichloropropene			50.0	44.6		ug/L		89	70 - 130	1	20
Cyclohexane			50.0	44.0		ug/L		88	23 - 175	0	30
Dibromochloromethane			50.0	51.0		ug/L		102	70 - 130	1	30
Dichlorodifluoromethane			50.0	37.4		ug/L		75	70 - 130	1	40
Ethylbenzene			50.0	49.2		ug/L		98	70 - 130	0	20
Isopropylbenzene			50.0	49.4		ug/L		99	70 - 130	0	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-800743/6
Matrix: Water
Analysis Batch: 800743

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m,p-Xylenes			50.0	48.5		ug/L		97	70 - 130	1	30
Methyl acetate			100	68.7		ug/L		69	67 - 120	1	30
Methyl tert-butyl ether			50.0	45.1		ug/L		90	70 - 130	1	30
Methylene Chloride			50.0	49.4		ug/L		99	70 - 130	1	30
o-Xylene			50.0	48.3		ug/L		97	70 - 130	0	30
Styrene			50.0	48.4		ug/L		97	70 - 130	1	30
Tetrachloroethene			50.0	52.4		ug/L		105	70 - 130	1	30
Toluene			50.0	46.0		ug/L		92	70 - 130	0	30
trans-1,2-Dichloroethene			50.0	47.9		ug/L		96	70 - 130	0	30
trans-1,3-Dichloropropene			50.0	47.1		ug/L		94	70 - 130	0	30
Trichloroethene			50.0	49.5		ug/L		99	70 - 130	1	30
Trichlorofluoromethane			50.0	99.5	J3	ug/L		199	63 - 142	2	30
Vinyl chloride			50.0	41.5		ug/L		83	66 - 129	2	30
Xylenes, Total			100	96.8		ug/L		97	70 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*60 - 124*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*
Dibromofluoromethane (Surr)	*109*		*70 - 130*
Toluene-d8 (Surr)	*99*		*70 - 130*

GC/MS VOA

Analysis Batch: 800524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-27244-1	LC34-DPT0924-008.0-20230920	Total/NA	Water	8260D	
670-27244-4	LC34-DPT0924-025.0-20230920	Total/NA	Water	8260D	
670-27244-5	LC34-DPT0924-034.0-20230920	Total/NA	Water	8260D	
670-27244-6	LC34-DPT0924-038.0-20230920	Total/NA	Water	8260D	
670-27244-7	LC34-DPT0925-008.0-20230921	Total/NA	Water	8260D	
670-27244-11	LC34-DPT0925-034.0-20230921	Total/NA	Water	8260D	
670-27244-12	LC34-DPT0925-038.0-20230921	Total/NA	Water	8260D	
670-27244-13	LC34-DPT0926-008.0-20230921	Total/NA	Water	8260D	
670-27244-18	LC34-DPT0926-038.0-20230921	Total/NA	Water	8260D	
670-27244-19	LC34-DPT0927-008.0-20230921	Total/NA	Water	8260D	
670-27244-20	LC34-DPT0927-013.0-20230921	Total/NA	Water	8260D	
670-27244-24	LC34-DPT0927-038.0-20230921	Total/NA	Water	8260D	
MB 680-800524/7	Method Blank	Total/NA	Water	8260D	
LCS 680-800524/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-800524/4	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 800743

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-27244-2	LC34-DPT0924-013.0-20230920	Total/NA	Water	8260D	
670-27244-3	LC34-DPT0924-018.0-20230920	Total/NA	Water	8260D	
670-27244-8	LC34-DPT0-925-013.0-20230921	Total/NA	Water	8260D	
670-27244-9	LC34-DPT0925-018.0-20230921	Total/NA	Water	8260D	
670-27244-10	LC34-DPT0925-025.0-20230921	Total/NA	Water	8260D	
670-27244-14	LC34-DPT0926-013.020230921	Total/NA	Water	8260D	
670-27244-15	LC34-DPT0926-018.0-20230921	Total/NA	Water	8260D	
670-27244-16	LC34-DPT0926-025.0-20230921	Total/NA	Water	8260D	
670-27244-17	LC34-DPT0926-034.020230921	Total/NA	Water	8260D	
670-27244-21	LC34-DPT0927-018.0-20230921	Total/NA	Water	8260D	
670-27244-22	LC34-DPT0927-025.0-20230921	Total/NA	Water	8260D	
670-27244-23	LC34-DPT0927-034.0-20230921	Total/NA	Water	8260D	
MB 680-800743/10	Method Blank	Total/NA	Water	8260D	
LCS 680-800743/5	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-800743/6	Lab Control Sample Dup	Total/NA	Water	8260D	

Lab Chronicle

Client: Tetra Tech, Inc.
Job ID: 670-27244-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT0924-008.0-20230920
Lab Sample ID: 670-27244-1
Date Collected: 09/20/23 15:10
Matrix: Water
Date Received: 09/22/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	800524	P1C	EET SAV	10/02/23 12:38

Client Sample ID: LC34-DPT0924-013.0-20230920
Lab Sample ID: 670-27244-2
Date Collected: 09/20/23 15:25
Matrix: Water
Date Received: 09/22/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		2	800743	Y1S	EET SAV	10/03/23 19:53

Client Sample ID: LC34-DPT0924-018.0-20230920
Lab Sample ID: 670-27244-3
Date Collected: 09/20/23 15:40
Matrix: Water
Date Received: 09/22/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		10	800743	Y1S	EET SAV	10/03/23 20:16

Client Sample ID: LC34-DPT0924-025.0-20230920
Lab Sample ID: 670-27244-4
Date Collected: 09/20/23 15:55
Matrix: Water
Date Received: 09/22/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		10	800524	P1C	EET SAV	10/02/23 13:39

Client Sample ID: LC34-DPT0924-034.0-20230920
Lab Sample ID: 670-27244-5
Date Collected: 09/20/23 16:10
Matrix: Water
Date Received: 09/22/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	800524	P1C	EET SAV	10/02/23 13:58

Client Sample ID: LC34-DPT0924-038.0-20230920
Lab Sample ID: 670-27244-6
Date Collected: 09/20/23 16:30
Matrix: Water
Date Received: 09/22/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	800524	P1C	EET SAV	10/02/23 14:17

Client Sample ID: LC34-DPT0925-008.0-20230921
Lab Sample ID: 670-27244-7
Date Collected: 09/21/23 07:55
Matrix: Water
Date Received: 09/22/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	800524	P1C	EET SAV	10/02/23 14:36

Lab Chronicle

Client: Tetra Tech, Inc.
Job ID: 670-27244-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT0-925-013.0-20230921
Lab Sample ID: 670-27244-8
Date Collected: 09/21/23 08:10
Matrix: Water
Date Received: 09/22/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	800743	Y1S	EET SAV	10/03/23 17:56

Client Sample ID: LC34-DPT0925-018.0-20230921
Lab Sample ID: 670-27244-9
Date Collected: 09/21/23 08:25
Matrix: Water
Date Received: 09/22/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		10	800743	Y1S	EET SAV	10/03/23 20:40

Client Sample ID: LC34-DPT0925-025.0-20230921
Lab Sample ID: 670-27244-10
Date Collected: 09/21/23 08:40
Matrix: Water
Date Received: 09/22/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		2	800743	Y1S	EET SAV	10/03/23 21:03

Client Sample ID: LC34-DPT0925-034.0-20230921
Lab Sample ID: 670-27244-11
Date Collected: 09/21/23 08:55
Matrix: Water
Date Received: 09/22/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	800524	P1C	EET SAV	10/02/23 15:56

Client Sample ID: LC34-DPT0925-038.0-20230921
Lab Sample ID: 670-27244-12
Date Collected: 09/21/23 09:15
Matrix: Water
Date Received: 09/22/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	800524	P1C	EET SAV	10/02/23 16:15

Client Sample ID: LC34-DPT0926-008.0-20230921
Lab Sample ID: 670-27244-13
Date Collected: 09/21/23 10:05
Matrix: Water
Date Received: 09/22/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	800524	P1C	EET SAV	10/02/23 16:34

Client Sample ID: LC34-DPT0926-013.020230921
Lab Sample ID: 670-27244-14
Date Collected: 09/21/23 10:20
Matrix: Water
Date Received: 09/22/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	800743	Y1S	EET SAV	10/03/23 18:20

Lab Chronicle

Client: Tetra Tech, Inc.
Job ID: 670-27244-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT0926-018.0-20230921
Lab Sample ID: 670-27244-15
Date Collected: 09/21/23 10:35
Matrix: Water
Date Received: 09/22/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		5	800743	Y1S	EET SAV	10/03/23 21:26

Client Sample ID: LC34-DPT0926-025.0-20230921
Lab Sample ID: 670-27244-16
Date Collected: 09/21/23 10:55
Matrix: Water
Date Received: 09/22/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		25	800743	Y1S	EET SAV	10/03/23 21:50

Client Sample ID: LC34-DPT0926-034.020230921
Lab Sample ID: 670-27244-17
Date Collected: 09/21/23 11:15
Matrix: Water
Date Received: 09/22/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	800743	Y1S	EET SAV	10/03/23 18:43

Client Sample ID: LC34-DPT0926-038.0-20230921
Lab Sample ID: 670-27244-18
Date Collected: 09/21/23 11:35
Matrix: Water
Date Received: 09/22/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	800524	P1C	EET SAV	10/02/23 18:15

Client Sample ID: LC34-DPT0927-008.0-20230921
Lab Sample ID: 670-27244-19
Date Collected: 09/21/23 12:10
Matrix: Water
Date Received: 09/22/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	800524	P1C	EET SAV	10/02/23 18:34

Client Sample ID: LC34-DPT0927-013.0-20230921
Lab Sample ID: 670-27244-20
Date Collected: 09/21/23 12:25
Matrix: Water
Date Received: 09/22/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		5	800524	P1C	EET SAV	10/02/23 18:56

Client Sample ID: LC34-DPT0927-018.0-20230921
Lab Sample ID: 670-27244-21
Date Collected: 09/21/23 12:40
Matrix: Water
Date Received: 09/22/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		5	800743	Y1S	EET SAV	10/03/23 22:13

Lab Chronicle

Client: Tetra Tech, Inc.
Job ID: 670-27244-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT0927-025.0-20230921
Lab Sample ID: 670-27244-22
Date Collected: 09/21/23 12:55
Matrix: Water
Date Received: 09/22/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		10	800743	Y1S	EET SAV	10/03/23 22:36

Client Sample ID: LC34-DPT0927-034.0-20230921
Lab Sample ID: 670-27244-23
Date Collected: 09/21/23 13:15
Matrix: Water
Date Received: 09/22/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	800743	Y1S	EET SAV	10/03/23 19:06

Client Sample ID: LC34-DPT0927-038.0-20230921
Lab Sample ID: 670-27244-24
Date Collected: 09/21/23 13:35
Matrix: Water
Date Received: 09/22/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	800524	P1C	EET SAV	10/02/23 20:16

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: Tetra Tech, Inc.
Job ID: 670-27244-1
Project/Site: NASA KSC LC34 DPT

Laboratory: Eurofins Savannah

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
	AFCEE	SAVLAB	
Alabama	State	41450	06-30-24
ANAB	Dept. of Defense ELAP	L2463	09-22-24
Arkansas DEQ	State	19-015-0	02-01-24
California	State	2939	06-30-24
Florida	NELAP	E87052	06-30-24
Georgia	State	E87052	06-30-24
Georgia (DW)	State	803	06-30-24
Guam	State	19-007R	04-17-24
Hawaii	State	<cert No.>	06-30-24
Illinois	NELAP	200022	11-30-23
Indiana	State	C-GA-02	06-30-24
Iowa	State	353	07-01-25
Kentucky (UST)	State	NA	06-30-24
Louisiana	NELAP	30690	06-30-24
Louisiana (All)	NELAP	30690	06-30-24
Louisiana (DW)	State	LA009	12-31-23
Maine	State	GA00006	09-25-24
Maryland	State	250	12-31-23
Massachusetts	State	M-GA006	06-30-24
Michigan	State	9925	06-30-24
Mississippi	State	<cert No.>	06-30-24
Nebraska	State	NE-OS-7-04	06-30-24
New Jersey	NELAP	GA769	06-30-24
New Mexico	State	GA00006	06-30-24
North Carolina (DW)	State	13701	07-31-24
North Carolina (WW/SW)	State	269	12-31-23
Pennsylvania	NELAP	68-00474	06-30-24
Puerto Rico	State	GA00006	01-01-24
South Carolina	State	98001	06-30-23 *
Tennessee	State	TN02961	06-30-24
Texas	NELAP	T1047004185	11-30-23
Texas	TCEQ Water Supply	T104704185	06-30-24
USDA	US Federal Programs	P330-18-00313	09-03-24
Virginia	NELAP	460161	06-14-24
Wyoming	State	8TMS-L	06-30-23 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Tetra Tech, Inc.
Job ID: 670-27244-1
Project/Site: NASA KSC LC34 DPT

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET SAV
5030B	Purge and Trap	SW846	EET SAV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Sample Summary

Client: Tetra Tech, Inc.
Job ID: 670-27244-1
Project/Site: NASA KSC LC34 DPT

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
670-27244-1	LC34-DPT0924-008.0-20230920	Water	09/20/23 15:10	09/22/23 08:00
670-27244-2	LC34-DPT0924-013.0-20230920	Water	09/20/23 15:25	09/22/23 08:00
670-27244-3	LC34-DPT0924-018.0-20230920	Water	09/20/23 15:40	09/22/23 08:00
670-27244-4	LC34-DPT0924-025.0-20230920	Water	09/20/23 15:55	09/22/23 08:00
670-27244-5	LC34-DPT0924-034.0-20230920	Water	09/20/23 16:10	09/22/23 08:00
670-27244-6	LC34-DPT0924-038.0-20230920	Water	09/20/23 16:30	09/22/23 08:00
670-27244-7	LC34-DPT0925-008.0-20230921	Water	09/21/23 07:55	09/22/23 08:00
670-27244-8	LC34-DPT0-925-013.0-20230921	Water	09/21/23 08:10	09/22/23 08:00
670-27244-9	LC34-DPT0925-018.0-20230921	Water	09/21/23 08:25	09/22/23 08:00
670-27244-10	LC34-DPT0925-025.0-20230921	Water	09/21/23 08:40	09/22/23 08:00
670-27244-11	LC34-DPT0925-034.0-20230921	Water	09/21/23 08:55	09/22/23 08:00
670-27244-12	LC34-DPT0925-038.0-20230921	Water	09/21/23 09:15	09/22/23 08:00
670-27244-13	LC34-DPT0926-008.0-20230921	Water	09/21/23 10:05	09/22/23 08:00
670-27244-14	LC34-DPT0926-013.020230921	Water	09/21/23 10:20	09/22/23 08:00
670-27244-15	LC34-DPT0926-018.0-20230921	Water	09/21/23 10:35	09/22/23 08:00
670-27244-16	LC34-DPT0926-025.0-20230921	Water	09/21/23 10:55	09/22/23 08:00
670-27244-17	LC34-DPT0926-034.020230921	Water	09/21/23 11:15	09/22/23 08:00
670-27244-18	LC34-DPT0926-038.0-20230921	Water	09/21/23 11:35	09/22/23 08:00
670-27244-19	LC34-DPT0927-008.0-20230921	Water	09/21/23 12:10	09/22/23 08:00
670-27244-20	LC34-DPT0927-013.0-20230921	Water	09/21/23 12:25	09/22/23 08:00
670-27244-21	LC34-DPT0927-018.0-20230921	Water	09/21/23 12:40	09/22/23 08:00
670-27244-22	LC34-DPT0927-025.0-20230921	Water	09/21/23 12:55	09/22/23 08:00
670-27244-23	LC34-DPT0927-034.0-20230921	Water	09/21/23 13:15	09/22/23 08:00
670-27244-24	LC34-DPT0927-038.0-20230921	Water	09/21/23 13:35	09/22/23 08:00

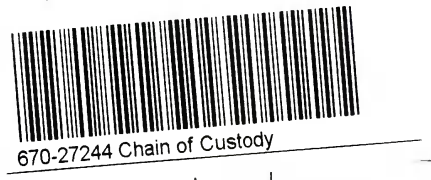
Tetra Tech, Inc. CHAIN OF CUSTODY | NUMBER No. 3716 | PAGE 1 OF 2

PROJECT NO: 112G08985	FACILITY: KSC-LC34	PROJECT MANAGER Mark Jonner	PHONE NUMBER (412) 921-8622	LABORATORY NAME AND CONTACT: Eurofins — Kaitlin Dylnicki
SAMPLERS (SIGNATURE) ~Chuck Sorden		FIELD OPERATIONS LEADER Chuck Sorden	PHONE NUMBER (321) 591-7580	ADDRESS 481 Newburyport Ave.
		CARRIER/WAYBILL NUMBER		CITY, STATE Altamonte Springs, FL

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): G G
PRESERVATIVE USED: HCl/4°C 4°C

DATE (YEAR 2023)	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS: 8260D-(MOD) NASA LC34 Custom List	8260D-(MOD) NASA LC34 Custom List	COMMENTS
09/20	1510	LC34-DPT0924-008.0-20230920	SC	6	10	GW	G	4	X	X	
	1525	LC34-DPT0924-013.0-20230920		11	15						
	1540	LC34-DPT0924-018.0-20230920		16	20						
	1555	LC34-DPT0924-025.0-20230920		23	27						
	1610	LC34-DPT0924-034.0-20230920		32	36						
09/20	1630	LC34-DPT0924-038.0-20230920	SC	36	40						
09/21	0755	LC34-DPT0925-008.0-20230921	52	6	10						
	0810	LC34-DPT0925-013.0-20230921		11	15						
	0825	LC34-DPT0925-018.0-20230921		16	20						
	0840	LC34-DPT0925-025.0-20230921		23	27						
	0855	LC34-DPT0925-034.0-20230921		32	36						
	0915	LC34-DPT0925-038.0-20230921	52	36	40						
09/21	1005	LC34-DPT0926-008.0-20230921	48	6	10	GW	G	4	X	X	



	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	09/21/23	1425	1. RECEIVED BY	9-21/23	14:25
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY MC	DATE 9/22/23	TIME 8:00

COMMENTS: 5·8/5·3

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R FORM NO. TINUS-001

SC6

Tetra Tech, Inc.

CHAIN OF CUSTODY | NUMBER No. 3717 | PAGE 2 OF 2

PROJECT NO: 112G-08985	FACILITY: KSC-LC34	PROJECT MANAGER Mark Jonner	PHONE NUMBER (412) 921-8622	LABORATORY NAME AND CONTACT: Eurofins — Kaitlin Dylnicki
SAMPLERS (SIGNATURE) — Chuck Sorden		FIELD OPERATIONS LEADER Chuck Sorden	PHONE NUMBER (321) 591-7580	ADDRESS 481 Newburyport Ave.
		CARRIER/WAYBILL NUMBER		CITY, STATE Altamonte Springs, FL

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2023	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)										COMMENTS
									G	G									
									PRESERVATIVE USED		HCL/4°C	4°C							
									TYPE OF ANALYSIS		8260D-(MOD) NASA LC34 Custom List	8260D-(MOD) NASA LC34 Custom List							
09/21	1020	LC34-DPT0926-013.0-20230921	48	11	15	GW	G	4	X	X									
	1035	LC34-DPT0926-018.0-20230921		16	20														
	1055	LC34-DPT0926-025.0-20230921		23	27														
	1115	LC34-DPT0926-034.0-20230921		32	36														
	1135	LC34-DPT0926-038.0-20230921	48	36	40														
	1210	LC34-DPT0927-008.0-20230921	44	6	10														
	1225	LC34-DPT0927-013.0-20230921		11	15														
	1240	LC34-DPT0927-018.0-20230921		16	20														
	1255	LC34-DPT0927-025.0-20230921		23	27														
	1315	LC34-DPT0927-034.0-20230921		32	36														
09/21	1335	LC34-DPT0927-038.0-20230921	44	36	40	GW	G	4	X	X									

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	09/21/23	1425	1. RECEIVED BY	9/21/23	14:35
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY MC	9/22/23	8:00
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

FORM NO. TtNUS-001 4/02R

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 670-27244-1

Login Number: 27244

List Number: 1

Creator: Clerisier, Meline

List Source: Eurofins Orlando

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 670-27244-1

Login Number: 27244
List Number: 2
Creator: Watters, David

List Source: Eurofins Savannah
List Creation: 09/23/23 01:33 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Mark Jonnet
Tetra Tech, Inc.
Foster Plaza 7
661 Anderson Drive
Suite 200
Pittsburgh, Pennsylvania 15220-2745

Generated 10/3/2023 3:56:24 PM

JOB DESCRIPTION

NASA KSC LC34 DPT

JOB NUMBER

670-27359-1

Eurofins Orlando
481 Newburyport Avenue
Altamonte Springs FL 32701

See page two for job notes and contact information.

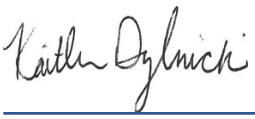
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Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization



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Authorized for release by
Kaitlin Dylnicki, Project Manager
kaitlin.dylnicki@et.eurofinsus.com
(407)339-5984

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Definitions/Glossary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27359-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U	Indicates that the compound was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 670-27359-1

Laboratory: Eurofins Orlando

Narrative

Job Narrative
670-27359-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 9/23/2023 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.7°C and 1.2°C

GC/MS VOA
Method 8260D: The following samples were diluted due to the nature of the sample matrix: LC34-DPT0928-018.0-20230921 (670-27359-3), LC34-DPT0929-018.0-20230922 (670-27359-9), LC34-DPT0929-025.0-20230922 (670-27359-10) and LC34-DPT0930-025.020230922 (670-27359-16). Elevated reporting limits (RLs) are provided.

Method 8260D: The following sample was diluted to bring the concentration of target analytes within the calibration range: LC34-DPT0930-018.0-20230922 (670-27359-15). Elevated reporting limits (RLs) are provided.

Method 8260D: The following samples were diluted due to the nature of the sample matrix: LC34-DPT0931-018.0-20230922 (670-27359-21) and LC34-DPT0931-025.0-20230922 (670-27359-22). Elevated reporting limits (RLs) are provided.

Method 8260D: The following sample was diluted to bring the concentration of target analytes within the calibration range: LC34-DPT0928-025.0-20230921 (670-27359-4). Elevated reporting limits (RLs) are provided.

Method 8260D: The following samples were diluted to bring the concentration of target analytes within the calibration range: LC34-DPT0928-018.0-20230921 (670-27359-3), LC34-DPT0929-018.0-20230922 (670-27359-9), LC34-DPT0929-025.0-20230922 (670-27359-10) and LC34-DPT0930-025.020230922 (670-27359-16). Elevated reporting limits (RLs) are provided.

Method 8260D: The following samples were diluted to bring the concentration of target analytes within the calibration range: LC34-DPT0929-018.0-20230922 (670-27359-9), LC34-DPT0929-025.0-20230922 (670-27359-10) and LC34-DPT0931-013.0-20230922 (670-27359-20). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27359-1

Client Sample ID: LC34-DPT0928-0008.0-20230921 — Lab Sample ID: 670-27359-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	12		1.0	0.46	ug/L	1		8260D	Total/NA
Vinyl chloride	22		2.0	0.43	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0928-013.0-20230921 — Lab Sample ID: 670-27359-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	19		1.0	0.46	ug/L	1		8260D	Total/NA
Vinyl chloride	53		2.0	0.43	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0928-018.0-20230921 — Lab Sample ID: 670-27359-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1100		10	4.6	ug/L	10		8260D	Total/NA
trans-1,2-Dichloroethene	9.9	I	10	3.7	ug/L	10		8260D	Total/NA
Vinyl chloride	660		20	4.3	ug/L	10		8260D	Total/NA

Client Sample ID: LC34-DPT0928-025.0-20230921 — Lab Sample ID: 670-27359-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	1.6	I	5.0	0.78	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	14		1.0	0.37	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene - DL	1100		10	4.6	ug/L	10		8260D	Total/NA
Vinyl chloride - DL	220		20	4.3	ug/L	10		8260D	Total/NA

Client Sample ID: LC34-DPT0928-0.34.0-20230921 — Lab Sample ID: 670-27359-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	1.1	I	5.0	0.78	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0928-038.0-20230921 — Lab Sample ID: 670-27359-6

No Detections.

Client Sample ID: LC34-DPT0929-008.0-20230922 — Lab Sample ID: 670-27359-7

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	33		1.0	0.46	ug/L	1		8260D	Total/NA
Vinyl chloride	61		2.0	0.43	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0929-013.0-20230922 — Lab Sample ID: 670-27359-8

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	38		1.0	0.46	ug/L	1		8260D	Total/NA
Vinyl chloride	84		2.0	0.43	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0929-018.0-20230922 — Lab Sample ID: 670-27359-9

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
trans-1,2-Dichloroethene	10		10	3.7	ug/L	10		8260D	Total/NA
Vinyl chloride	820		20	4.3	ug/L	10		8260D	Total/NA
cis-1,2-Dichloroethene - DL	1600		50	23	ug/L	50		8260D	Total/NA

Client Sample ID: LC34-DPT0929-025.0-20230922 — Lab Sample ID: 670-27359-10

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
trans-1,2-Dichloroethene	8.0	I	10	3.7	ug/L	10		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Orlando

Client Sample ID: LC34-DPT0929-025.0-20230922 (Continued) — Lab Sample ID: 670-27359-10

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	170		20	4.3	ug/L	10		8260D	Total/NA
cis-1,2-Dichloroethene - DL	1700		50	23	ug/L	50		8260D	Total/NA

Client Sample ID: LC34-DPT0929-034.0-20230922 — Lab Sample ID: 670-27359-11

No Detections.

Client Sample ID: LC34-DPT0929-038.0-20230922 — Lab Sample ID: 670-27359-12

No Detections.

Client Sample ID: LC34-DPT0930-008.0-20230922 — Lab Sample ID: 670-27359-13

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	24		1.0	0.46	ug/L	1		8260D	Total/NA
Vinyl chloride	53		2.0	0.43	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0930-013.0-20230922 — Lab Sample ID: 670-27359-14

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	56		1.0	0.46	ug/L	1		8260D	Total/NA
Vinyl chloride	120		2.0	0.43	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0930-018.0-20230922 — Lab Sample ID: 670-27359-15

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene - DL	200		10	4.6	ug/L	10		8260D	Total/NA
Vinyl chloride - DL	350		20	4.3	ug/L	10		8260D	Total/NA

Client Sample ID: LC34-DPT0930-025.020230922 — Lab Sample ID: 670-27359-16

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1200		10	4.6	ug/L	10		8260D	Total/NA
trans-1,2-Dichloroethene	19		10	3.7	ug/L	10		8260D	Total/NA
Vinyl chloride	260		20	4.3	ug/L	10		8260D	Total/NA

Client Sample ID: LC34-DPT0930-034.0-20230922 — Lab Sample ID: 670-27359-17

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	3.2		1.0	0.46	ug/L	1		8260D	Total/NA
Vinyl chloride	5.5		2.0	0.43	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0930-038.0-20230922 — Lab Sample ID: 670-27359-18

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.49	I	1.0	0.46	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0931-008.0-20230922 — Lab Sample ID: 670-27359-19

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	35		1.0	0.46	ug/L	1		8260D	Total/NA
Vinyl chloride	98		2.0	0.43	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27359-1

Client Sample ID: LC34-DPT0931-013.0-20230922 — Lab Sample ID: 670-27359-20

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	61		1.0	0.46	ug/L	1		8260D	Total/NA
Vinyl chloride - DL	140		10	2.1	ug/L	5		8260D	Total/NA

Client Sample ID: LC34-DPT0931-018.0-20230922 — Lab Sample ID: 670-27359-21

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1300		10	4.6	ug/L	10		8260D	Total/NA
trans-1,2-Dichloroethene	13		10	3.7	ug/L	10		8260D	Total/NA
Vinyl chloride	440		20	4.3	ug/L	10		8260D	Total/NA

Client Sample ID: LC34-DPT0931-025.0-20230922 — Lab Sample ID: 670-27359-22

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	3100		25	11	ug/L	25		8260D	Total/NA
trans-1,2-Dichloroethene	42		25	9.2	ug/L	25		8260D	Total/NA
Vinyl chloride	680		50	11	ug/L	25		8260D	Total/NA

Client Sample ID: LC34-DPT0931-034.020230922 — Lab Sample ID: 670-27359-23

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.92	I	1.0	0.46	ug/L	1		8260D	Total/NA
Vinyl chloride	1.9	I	2.0	0.43	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0931-038.0-20230922 — Lab Sample ID: 670-27359-24

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27359-1

Client Sample ID: LC34-DPT0928-0008.0-20230921
Date Collected: 09/21/23 14:35
Date Received: 09/23/23 08:00

Lab Sample ID: 670-27359-1
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.59	U	5.0	0.59	ug/L			09/27/23 10:40	1
1,1,2,2-Tetrachloroethane	0.47	U	1.0	0.47	ug/L			09/27/23 10:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	10	1.1	ug/L			09/27/23 10:40	1
1,1,2-Trichloroethane	0.41	U	1.0	0.41	ug/L			09/27/23 10:40	1
1,1-Dichloroethane	0.64	U	1.0	0.64	ug/L			09/27/23 10:40	1
1,1-Dichloroethene	0.74	U	1.0	0.74	ug/L			09/27/23 10:40	1
1,2,4-Trichlorobenzene	1.8	U	5.0	1.8	ug/L			09/27/23 10:40	1
1,2-Dibromo-3-Chloropropane	0.67	U	5.0	0.67	ug/L			09/27/23 10:40	1
1,2-Dibromoethane (EDB)	1.0	U	5.0	1.0	ug/L			09/27/23 10:40	1
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			09/27/23 10:40	1
1,2-Dichloroethane	0.37	U	1.0	0.37	ug/L			09/27/23 10:40	1
1,2-Dichloropropane	0.56	U	5.0	0.56	ug/L			09/27/23 10:40	1
1,3-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			09/27/23 10:40	1
1,4-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			09/27/23 10:40	1
2-Butanone (MEK)	8.3	U	50	8.3	ug/L			09/27/23 10:40	1
2-Hexanone	7.4	U	50	7.4	ug/L			09/27/23 10:40	1
4-Methyl-2-pentanone	7.5	U	50	7.5	ug/L			09/27/23 10:40	1
Acetone	3.1	U	100	3.1	ug/L			09/27/23 10:40	1
Benzene	0.46	U	1.0	0.46	ug/L			09/27/23 10:40	1
Bromodichloromethane	0.55	U	1.0	0.55	ug/L			09/27/23 10:40	1
Bromoform	0.63	U	5.0	0.63	ug/L			09/27/23 10:40	1
Bromomethane	1.4	U	5.0	1.4	ug/L			09/27/23 10:40	1
Carbon disulfide	0.78	U	5.0	0.78	ug/L			09/27/23 10:40	1
Carbon tetrachloride	0.90	U	5.0	0.90	ug/L			09/27/23 10:40	1
Chlorobenzene	0.46	U	1.0	0.46	ug/L			09/27/23 10:40	1
Chloroethane	2.0	U	10	2.0	ug/L			09/27/23 10:40	1
Chloroform	0.46	U	1.0	0.46	ug/L			09/27/23 10:40	1
Chloromethane	2.0	U	10	2.0	ug/L			09/27/23 10:40	1
cis-1,2-Dichloroethene	**12**		1.0	0.46	ug/L			09/27/23 10:40	1
cis-1,3-Dichloropropene	1.1	U	5.0	1.1	ug/L			09/27/23 10:40	1
Cyclohexane	1.3	U	5.0	1.3	ug/L			09/27/23 10:40	1
Dibromochloromethane	0.55	U	5.0	0.55	ug/L			09/27/23 10:40	1
Dichlorodifluoromethane	0.79	U	1.0	0.79	ug/L			09/27/23 10:40	1
Ethylbenzene	0.39	U	1.0	0.39	ug/L			09/27/23 10:40	1
Isopropylbenzene	0.59	U	1.0	0.59	ug/L			09/27/23 10:40	1
m,p-Xylenes	1.2	U	10	1.2	ug/L			09/27/23 10:40	1
Methyl acetate	4.0	U	20	4.0	ug/L			09/27/23 10:40	1
Methyl tert-butyl ether	1.4	U	5.0	1.4	ug/L			09/27/23 10:40	1
Methylene Chloride	1.7	U	5.0	1.7	ug/L			09/27/23 10:40	1
o-Xylene	0.50	U	1.0	0.50	ug/L			09/27/23 10:40	1
Styrene	0.62	U	1.0	0.62	ug/L			09/27/23 10:40	1
Tetrachloroethene	0.66	U	1.0	0.66	ug/L			09/27/23 10:40	1
Toluene	0.48	U	1.0	0.48	ug/L			09/27/23 10:40	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			09/27/23 10:40	1
trans-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			09/27/23 10:40	1
Trichloroethene	0.79	U	5.0	0.79	ug/L			09/27/23 10:40	1
Trichlorofluoromethane	0.56	U	1.0	0.56	ug/L			09/27/23 10:40	1
Vinyl chloride	**22**		2.0	0.43	ug/L			09/27/23 10:40	1
Xylenes, Total	1.2	U	10	1.2	ug/L			09/27/23 10:40	1

Client Sample ID: LC34-DPT0928-0008.0-20230921
Lab Sample ID: 670-27359-1
Date Collected: 09/21/23 14:35
Matrix: Water
Date Received: 09/23/23 08:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*63 - 144*		*09/27/23 10:40*	*1*
4-Bromofluorobenzene (Surr)	*101*		*74 - 124*		*09/27/23 10:40*	*1*
Dibromofluoromethane (Surr)	*104*		*75 - 131*		*09/27/23 10:40*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*09/27/23 10:40*	*1*

Client Sample ID: LC34-DPT0928-013.0-20230921
Lab Sample ID: 670-27359-2
Date Collected: 09/21/23 14:50
Matrix: Water
Date Received: 09/23/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.59	U	5.0	0.59	ug/L			09/27/23 11:01	1
1,1,2,2-Tetrachloroethane	0.47	U	1.0	0.47	ug/L			09/27/23 11:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	10	1.1	ug/L			09/27/23 11:01	1
1,1,2-Trichloroethane	0.41	U	1.0	0.41	ug/L			09/27/23 11:01	1
1,1-Dichloroethane	0.64	U	1.0	0.64	ug/L			09/27/23 11:01	1
1,1-Dichloroethene	0.74	U	1.0	0.74	ug/L			09/27/23 11:01	1
1,2,4-Trichlorobenzene	1.8	U	5.0	1.8	ug/L			09/27/23 11:01	1
1,2-Dibromo-3-Chloropropane	0.67	U	5.0	0.67	ug/L			09/27/23 11:01	1
1,2-Dibromoethane (EDB)	1.0	U	5.0	1.0	ug/L			09/27/23 11:01	1
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			09/27/23 11:01	1
1,2-Dichloroethane	0.37	U	1.0	0.37	ug/L			09/27/23 11:01	1
1,2-Dichloropropane	0.56	U	5.0	0.56	ug/L			09/27/23 11:01	1
1,3-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			09/27/23 11:01	1
1,4-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			09/27/23 11:01	1
2-Butanone (MEK)	8.3	U	50	8.3	ug/L			09/27/23 11:01	1
2-Hexanone	7.4	U	50	7.4	ug/L			09/27/23 11:01	1
4-Methyl-2-pentanone	7.5	U	50	7.5	ug/L			09/27/23 11:01	1
Acetone	3.1	U	100	3.1	ug/L			09/27/23 11:01	1
Benzene	0.46	U	1.0	0.46	ug/L			09/27/23 11:01	1
Bromodichloromethane	0.55	U	1.0	0.55	ug/L			09/27/23 11:01	1
Bromoform	0.63	U	5.0	0.63	ug/L			09/27/23 11:01	1
Bromomethane	1.4	U	5.0	1.4	ug/L			09/27/23 11:01	1
Carbon disulfide	0.78	U	5.0	0.78	ug/L			09/27/23 11:01	1
Carbon tetrachloride	0.90	U	5.0	0.90	ug/L			09/27/23 11:01	1
Chlorobenzene	0.46	U	1.0	0.46	ug/L			09/27/23 11:01	1
Chloroethane	2.0	U	10	2.0	ug/L			09/27/23 11:01	1
Chloroform	0.46	U	1.0	0.46	ug/L			09/27/23 11:01	1
Chloromethane	2.0	U	10	2.0	ug/L			09/27/23 11:01	1
cis-1,2-Dichloroethene	**19**		1.0	0.46	ug/L			09/27/23 11:01	1
cis-1,3-Dichloropropene	1.1	U	5.0	1.1	ug/L			09/27/23 11:01	1
Cyclohexane	1.3	U	5.0	1.3	ug/L			09/27/23 11:01	1
Dibromochloromethane	0.55	U	5.0	0.55	ug/L			09/27/23 11:01	1
Dichlorodifluoromethane	0.79	U	1.0	0.79	ug/L			09/27/23 11:01	1
Ethylbenzene	0.39	U	1.0	0.39	ug/L			09/27/23 11:01	1
Isopropylbenzene	0.59	U	1.0	0.59	ug/L			09/27/23 11:01	1
m,p-Xylenes	1.2	U	10	1.2	ug/L			09/27/23 11:01	1
Methyl acetate	4.0	U	20	4.0	ug/L			09/27/23 11:01	1
Methyl tert-butyl ether	1.4	U	5.0	1.4	ug/L			09/27/23 11:01	1
Methylene Chloride	1.7	U	5.0	1.7	ug/L			09/27/23 11:01	1

Client Sample ID: LC34-DPT0928-013.0-20230921
Lab Sample ID: 670-27359-2
Date Collected: 09/21/23 14:50
Matrix: Water
Date Received: 09/23/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	0.50	U	1.0	0.50	ug/L			09/27/23 11:01	1
Styrene	0.62	U	1.0	0.62	ug/L			09/27/23 11:01	1
Tetrachloroethene	0.66	U	1.0	0.66	ug/L			09/27/23 11:01	1
Toluene	0.48	U	1.0	0.48	ug/L			09/27/23 11:01	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			09/27/23 11:01	1
trans-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			09/27/23 11:01	1
Trichloroethene	0.79	U	5.0	0.79	ug/L			09/27/23 11:01	1
Trichlorofluoromethane	0.56	U	1.0	0.56	ug/L			09/27/23 11:01	1
Vinyl chloride	**53**		2.0	0.43	ug/L			09/27/23 11:01	1
Xylenes, Total	1.2	U	10	1.2	ug/L			09/27/23 11:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*63 - 144*		*09/27/23 11:01*	*1*
4-Bromofluorobenzene (Surr)	*102*		*74 - 124*		*09/27/23 11:01*	*1*
Dibromofluoromethane (Surr)	*104*		*75 - 131*		*09/27/23 11:01*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*09/27/23 11:01*	*1*

Client Sample ID: LC34-DPT0928-018.0-20230921
Lab Sample ID: 670-27359-3
Date Collected: 09/21/23 15:05
Matrix: Water
Date Received: 09/23/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.9	U	50	5.9	ug/L			09/27/23 16:08	10
1,1,2,2-Tetrachloroethane	4.7	U	10	4.7	ug/L			09/27/23 16:08	10
1,1,2-Trichloro-1,2,2-trifluoroethane	11	U	100	11	ug/L			09/27/23 16:08	10
1,1,2-Trichloroethane	4.1	U	10	4.1	ug/L			09/27/23 16:08	10
1,1-Dichloroethane	6.4	U	10	6.4	ug/L			09/27/23 16:08	10
1,1-Dichloroethene	7.4	U	10	7.4	ug/L			09/27/23 16:08	10
1,2,4-Trichlorobenzene	18	U	50	18	ug/L			09/27/23 16:08	10
1,2-Dibromo-3-Chloropropane	6.7	U	50	6.7	ug/L			09/27/23 16:08	10
1,2-Dibromoethane (EDB)	10	U	50	10	ug/L			09/27/23 16:08	10
1,2-Dichlorobenzene	4.3	U	10	4.3	ug/L			09/27/23 16:08	10
1,2-Dichloroethane	3.7	U	10	3.7	ug/L			09/27/23 16:08	10
1,2-Dichloropropane	5.6	U	50	5.6	ug/L			09/27/23 16:08	10
1,3-Dichlorobenzene	4.1	U	10	4.1	ug/L			09/27/23 16:08	10
1,4-Dichlorobenzene	4.5	U	10	4.5	ug/L			09/27/23 16:08	10
2-Butanone (MEK)	83	U	500	83	ug/L			09/27/23 16:08	10
2-Hexanone	74	U	500	74	ug/L			09/27/23 16:08	10
4-Methyl-2-pentanone	75	U	500	75	ug/L			09/27/23 16:08	10
Acetone	31	U	1000	31	ug/L			09/27/23 16:08	10
Benzene	4.6	U	10	4.6	ug/L			09/27/23 16:08	10
Bromodichloromethane	5.5	U	10	5.5	ug/L			09/27/23 16:08	10
Bromoform	6.3	U	50	6.3	ug/L			09/27/23 16:08	10
Bromomethane	14	U	50	14	ug/L			09/27/23 16:08	10
Carbon disulfide	7.8	U	50	7.8	ug/L			09/27/23 16:08	10
Carbon tetrachloride	9.0	U	50	9.0	ug/L			09/27/23 16:08	10
Chlorobenzene	4.6	U	10	4.6	ug/L			09/27/23 16:08	10
Chloroethane	20	U	100	20	ug/L			09/27/23 16:08	10
Chloroform	4.6	U	10	4.6	ug/L			09/27/23 16:08	10

Client Sample ID: LC34-DPT0928-018.0-20230921

Lab Sample ID: 670-27359-3

Date Collected: 09/21/23 15:05

Matrix: Water

Date Received: 09/23/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	20	U	100	20	ug/L			09/27/23 16:08	10
cis-1,2-Dichloroethene	**1100**		10	4.6	ug/L			09/27/23 16:08	10
cis-1,3-Dichloropropene	11	U	50	11	ug/L			09/27/23 16:08	10
Cyclohexane	13	U	50	13	ug/L			09/27/23 16:08	10
Dibromochloromethane	5.5	U	50	5.5	ug/L			09/27/23 16:08	10
Dichlorodifluoromethane	7.9	U	10	7.9	ug/L			09/27/23 16:08	10
Ethylbenzene	3.9	U	10	3.9	ug/L			09/27/23 16:08	10
Isopropylbenzene	5.9	U	10	5.9	ug/L			09/27/23 16:08	10
m,p-Xylenes	12	U	100	12	ug/L			09/27/23 16:08	10
Methyl acetate	40	U	200	40	ug/L			09/27/23 16:08	10
Methyl tert-butyl ether	14	U	50	14	ug/L			09/27/23 16:08	10
Methylene Chloride	17	U	50	17	ug/L			09/27/23 16:08	10
o-Xylene	5.0	U	10	5.0	ug/L			09/27/23 16:08	10
Styrene	6.2	U	10	6.2	ug/L			09/27/23 16:08	10
Tetrachloroethene	6.6	U	10	6.6	ug/L			09/27/23 16:08	10
Toluene	4.8	U	10	4.8	ug/L			09/27/23 16:08	10
trans-1,2-Dichloroethene	**9.9**	**I**	10	3.7	ug/L			09/27/23 16:08	10
trans-1,3-Dichloropropene	13	U	50	13	ug/L			09/27/23 16:08	10
Trichloroethene	7.9	U	50	7.9	ug/L			09/27/23 16:08	10
Trichlorofluoromethane	5.6	U	10	5.6	ug/L			09/27/23 16:08	10
Vinyl chloride	**660**		20	4.3	ug/L			09/27/23 16:08	10
Xylenes, Total	12	U	100	12	ug/L			09/27/23 16:08	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*63 - 144*		*09/27/23 16:08*	*10*
4-Bromofluorobenzene (Surr)	*97*		*74 - 124*		*09/27/23 16:08*	*10*
Dibromofluoromethane (Surr)	*107*		*75 - 131*		*09/27/23 16:08*	*10*
Toluene-d8 (Surr)	*97*		*80 - 120*		*09/27/23 16:08*	*10*

Client Sample ID: LC34-DPT0928-025.0-20230921

Lab Sample ID: 670-27359-4

Date Collected: 09/21/23 15:25

Matrix: Water

Date Received: 09/23/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.59	U	5.0	0.59	ug/L			09/27/23 11:21	1
1,1,2,2-Tetrachloroethane	0.47	U	1.0	0.47	ug/L			09/27/23 11:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	10	1.1	ug/L			09/27/23 11:21	1
1,1,2-Trichloroethane	0.41	U	1.0	0.41	ug/L			09/27/23 11:21	1
1,1-Dichloroethane	0.64	U	1.0	0.64	ug/L			09/27/23 11:21	1
1,1-Dichloroethene	0.74	U	1.0	0.74	ug/L			09/27/23 11:21	1
1,2,4-Trichlorobenzene	1.8	U	5.0	1.8	ug/L			09/27/23 11:21	1
1,2-Dibromo-3-Chloropropane	0.67	U	5.0	0.67	ug/L			09/27/23 11:21	1
1,2-Dibromoethane (EDB)	1.0	U	5.0	1.0	ug/L			09/27/23 11:21	1
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			09/27/23 11:21	1
1,2-Dichloroethane	0.37	U	1.0	0.37	ug/L			09/27/23 11:21	1
1,2-Dichloropropane	0.56	U	5.0	0.56	ug/L			09/27/23 11:21	1
1,3-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			09/27/23 11:21	1
1,4-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			09/27/23 11:21	1
2-Butanone (MEK)	8.3	U	50	8.3	ug/L			09/27/23 11:21	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27359-1

Client Sample ID: LC34-DPT0928-025.0-20230921
Date Collected: 09/21/23 15:25
Date Received: 09/23/23 08:00

Lab Sample ID: 670-27359-4
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	7.4	U	50	7.4	ug/L			09/27/23 11:21	1
4-Methyl-2-pentanone	7.5	U	50	7.5	ug/L			09/27/23 11:21	1
Acetone	3.1	U	100	3.1	ug/L			09/27/23 11:21	1
Benzene	0.46	U	1.0	0.46	ug/L			09/27/23 11:21	1
Bromodichloromethane	0.55	U	1.0	0.55	ug/L			09/27/23 11:21	1
Bromoform	0.63	U	5.0	0.63	ug/L			09/27/23 11:21	1
Bromomethane	1.4	U	5.0	1.4	ug/L			09/27/23 11:21	1
Carbon disulfide	**1.6**	**I**	5.0	0.78	ug/L			09/27/23 11:21	1
Carbon tetrachloride	0.90	U	5.0	0.90	ug/L			09/27/23 11:21	1
Chlorobenzene	0.46	U	1.0	0.46	ug/L			09/27/23 11:21	1
Chloroethane	2.0	U	10	2.0	ug/L			09/27/23 11:21	1
Chloroform	0.46	U	1.0	0.46	ug/L			09/27/23 11:21	1
Chloromethane	2.0	U	10	2.0	ug/L			09/27/23 11:21	1
cis-1,3-Dichloropropene	1.1	U	5.0	1.1	ug/L			09/27/23 11:21	1
Cyclohexane	1.3	U	5.0	1.3	ug/L			09/27/23 11:21	1
Dibromochloromethane	0.55	U	5.0	0.55	ug/L			09/27/23 11:21	1
Dichlorodifluoromethane	0.79	U	1.0	0.79	ug/L			09/27/23 11:21	1
Ethylbenzene	0.39	U	1.0	0.39	ug/L			09/27/23 11:21	1
Isopropylbenzene	0.59	U	1.0	0.59	ug/L			09/27/23 11:21	1
m,p-Xylenes	1.2	U	10	1.2	ug/L			09/27/23 11:21	1
Methyl acetate	4.0	U	20	4.0	ug/L			09/27/23 11:21	1
Methyl tert-butyl ether	1.4	U	5.0	1.4	ug/L			09/27/23 11:21	1
Methylene Chloride	1.7	U	5.0	1.7	ug/L			09/27/23 11:21	1
o-Xylene	0.50	U	1.0	0.50	ug/L			09/27/23 11:21	1
Styrene	0.62	U	1.0	0.62	ug/L			09/27/23 11:21	1
Tetrachloroethene	0.66	U	1.0	0.66	ug/L			09/27/23 11:21	1
Toluene	0.48	U	1.0	0.48	ug/L			09/27/23 11:21	1
trans-1,2-Dichloroethene	**14**		1.0	0.37	ug/L			09/27/23 11:21	1
trans-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			09/27/23 11:21	1
Trichloroethene	0.79	U	5.0	0.79	ug/L			09/27/23 11:21	1
Trichlorofluoromethane	0.56	U	1.0	0.56	ug/L			09/27/23 11:21	1
Xylenes, Total	1.2	U	10	1.2	ug/L			09/27/23 11:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*63 - 144*		*09/27/23 11:21*	*1*
4-Bromofluorobenzene (Surr)	*103*		*74 - 124*		*09/27/23 11:21*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 131*		*09/27/23 11:21*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*09/27/23 11:21*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**1100**		10	4.6	ug/L			09/28/23 01:43	10
Vinyl chloride	**220**		20	4.3	ug/L			09/28/23 01:43	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*63 - 144*		*09/28/23 01:43*	*10*
4-Bromofluorobenzene (Surr)	*103*		*74 - 124*		*09/28/23 01:43*	*10*
Dibromofluoromethane (Surr)	*106*		*75 - 131*		*09/28/23 01:43*	*10*
Toluene-d8 (Surr)	*100*		*80 - 120*		*09/28/23 01:43*	*10*

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27359-1

Client Sample ID: LC34-DPT0928-0.34.0-20230921
Date Collected: 09/21/23 15:45
Date Received: 09/23/23 08:00

Lab Sample ID: 670-27359-5
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.59	U	5.0	0.59	ug/L			09/27/23 11:42	1
1,1,2,2-Tetrachloroethane	0.47	U	1.0	0.47	ug/L			09/27/23 11:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	10	1.1	ug/L			09/27/23 11:42	1
1,1,2-Trichloroethane	0.41	U	1.0	0.41	ug/L			09/27/23 11:42	1
1,1-Dichloroethane	0.64	U	1.0	0.64	ug/L			09/27/23 11:42	1
1,1-Dichloroethene	0.74	U	1.0	0.74	ug/L			09/27/23 11:42	1
1,2,4-Trichlorobenzene	1.8	U	5.0	1.8	ug/L			09/27/23 11:42	1
1,2-Dibromo-3-Chloropropane	0.67	U	5.0	0.67	ug/L			09/27/23 11:42	1
1,2-Dibromoethane (EDB)	1.0	U	5.0	1.0	ug/L			09/27/23 11:42	1
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			09/27/23 11:42	1
1,2-Dichloroethane	0.37	U	1.0	0.37	ug/L			09/27/23 11:42	1
1,2-Dichloropropane	0.56	U	5.0	0.56	ug/L			09/27/23 11:42	1
1,3-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			09/27/23 11:42	1
1,4-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			09/27/23 11:42	1
2-Butanone (MEK)	8.3	U	50	8.3	ug/L			09/27/23 11:42	1
2-Hexanone	7.4	U	50	7.4	ug/L			09/27/23 11:42	1
4-Methyl-2-pentanone	7.5	U	50	7.5	ug/L			09/27/23 11:42	1
Acetone	3.1	U	100	3.1	ug/L			09/27/23 11:42	1
Benzene	0.46	U	1.0	0.46	ug/L			09/27/23 11:42	1
Bromodichloromethane	0.55	U	1.0	0.55	ug/L			09/27/23 11:42	1
Bromoform	0.63	U	5.0	0.63	ug/L			09/27/23 11:42	1
Bromomethane	1.4	U	5.0	1.4	ug/L			09/27/23 11:42	1
Carbon disulfide	**1.1**	**I**	5.0	0.78	ug/L			09/27/23 11:42	1
Carbon tetrachloride	0.90	U	5.0	0.90	ug/L			09/27/23 11:42	1
Chlorobenzene	0.46	U	1.0	0.46	ug/L			09/27/23 11:42	1
Chloroethane	2.0	U	10	2.0	ug/L			09/27/23 11:42	1
Chloroform	0.46	U	1.0	0.46	ug/L			09/27/23 11:42	1
Chloromethane	2.0	U	10	2.0	ug/L			09/27/23 11:42	1
cis-1,3-Dichloropropene	1.1	U	5.0	1.1	ug/L			09/27/23 11:42	1
Cyclohexane	1.3	U	5.0	1.3	ug/L			09/27/23 11:42	1
Dibromochloromethane	0.55	U	5.0	0.55	ug/L			09/27/23 11:42	1
Dichlorodifluoromethane	0.79	U	1.0	0.79	ug/L			09/27/23 11:42	1
Ethylbenzene	0.39	U	1.0	0.39	ug/L			09/27/23 11:42	1
Isopropylbenzene	0.59	U	1.0	0.59	ug/L			09/27/23 11:42	1
m,p-Xylenes	1.2	U	10	1.2	ug/L			09/27/23 11:42	1
Methyl acetate	4.0	U	20	4.0	ug/L			09/27/23 11:42	1
Methyl tert-butyl ether	1.4	U	5.0	1.4	ug/L			09/27/23 11:42	1
Methylene Chloride	1.7	U	5.0	1.7	ug/L			09/27/23 11:42	1
o-Xylene	0.50	U	1.0	0.50	ug/L			09/27/23 11:42	1
Styrene	0.62	U	1.0	0.62	ug/L			09/27/23 11:42	1
Tetrachloroethene	0.66	U	1.0	0.66	ug/L			09/27/23 11:42	1
Toluene	0.48	U	1.0	0.48	ug/L			09/27/23 11:42	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			09/27/23 11:42	1
trans-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			09/27/23 11:42	1
Trichloroethene	0.79	U	5.0	0.79	ug/L			09/27/23 11:42	1
Trichlorofluoromethane	0.56	U	1.0	0.56	ug/L			09/27/23 11:42	1
Vinyl chloride	0.43	U	2.0	0.43	ug/L			09/27/23 11:42	1
Xylenes, Total	1.2	U	10	1.2	ug/L			09/27/23 11:42	1

Client Sample ID: LC34-DPT0928-0.34.0-20230921

Lab Sample ID: 670-27359-5

Date Collected: 09/21/23 15:45

Matrix: Water

Date Received: 09/23/23 08:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*63 - 144*		*09/27/23 11:42*	*1*
4-Bromofluorobenzene (Surr)	*100*		*74 - 124*		*09/27/23 11:42*	*1*
Dibromofluoromethane (Surr)	*106*		*75 - 131*		*09/27/23 11:42*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*09/27/23 11:42*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	0.46	U	1.0	0.46	ug/L			09/28/23 14:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*63 - 144*		*09/28/23 14:07*	*1*
4-Bromofluorobenzene (Surr)	*103*		*74 - 124*		*09/28/23 14:07*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 131*		*09/28/23 14:07*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*09/28/23 14:07*	*1*

Client Sample ID: LC34-DPT0928-038.0-20230921

Lab Sample ID: 670-27359-6

Date Collected: 09/21/23 16:05

Matrix: Water

Date Received: 09/23/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.59	U	5.0	0.59	ug/L			09/27/23 12:02	1
1,1,2,2-Tetrachloroethane	0.47	U	1.0	0.47	ug/L			09/27/23 12:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	10	1.1	ug/L			09/27/23 12:02	1
1,1,2-Trichloroethane	0.41	U	1.0	0.41	ug/L			09/27/23 12:02	1
1,1-Dichloroethane	0.64	U	1.0	0.64	ug/L			09/27/23 12:02	1
1,1-Dichloroethene	0.74	U	1.0	0.74	ug/L			09/27/23 12:02	1
1,2,4-Trichlorobenzene	1.8	U	5.0	1.8	ug/L			09/27/23 12:02	1
1,2-Dibromo-3-Chloropropane	0.67	U	5.0	0.67	ug/L			09/27/23 12:02	1
1,2-Dibromoethane (EDB)	1.0	U	5.0	1.0	ug/L			09/27/23 12:02	1
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			09/27/23 12:02	1
1,2-Dichloroethane	0.37	U	1.0	0.37	ug/L			09/27/23 12:02	1
1,2-Dichloropropane	0.56	U	5.0	0.56	ug/L			09/27/23 12:02	1
1,3-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			09/27/23 12:02	1
1,4-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			09/27/23 12:02	1
2-Butanone (MEK)	8.3	U	50	8.3	ug/L			09/27/23 12:02	1
2-Hexanone	7.4	U	50	7.4	ug/L			09/27/23 12:02	1
4-Methyl-2-pentanone	7.5	U	50	7.5	ug/L			09/27/23 12:02	1
Acetone	3.1	U	100	3.1	ug/L			09/27/23 12:02	1
Benzene	0.46	U	1.0	0.46	ug/L			09/27/23 12:02	1
Bromodichloromethane	0.55	U	1.0	0.55	ug/L			09/27/23 12:02	1
Bromoform	0.63	U	5.0	0.63	ug/L			09/27/23 12:02	1
Bromomethane	1.4	U	5.0	1.4	ug/L			09/27/23 12:02	1
Carbon disulfide	0.78	U	5.0	0.78	ug/L			09/27/23 12:02	1
Carbon tetrachloride	0.90	U	5.0	0.90	ug/L			09/27/23 12:02	1
Chlorobenzene	0.46	U	1.0	0.46	ug/L			09/27/23 12:02	1
Chloroethane	2.0	U	10	2.0	ug/L			09/27/23 12:02	1
Chloroform	0.46	U	1.0	0.46	ug/L			09/27/23 12:02	1
Chloromethane	2.0	U	10	2.0	ug/L			09/27/23 12:02	1
cis-1,3-Dichloropropene	1.1	U	5.0	1.1	ug/L			09/27/23 12:02	1
Cyclohexane	1.3	U	5.0	1.3	ug/L			09/27/23 12:02	1

Client Sample ID: LC34-DPT0928-038.0-20230921

Lab Sample ID: 670-27359-6

Date Collected: 09/21/23 16:05

Matrix: Water

Date Received: 09/23/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	0.55	U	5.0	0.55	ug/L			09/27/23 12:02	1
Dichlorodifluoromethane	0.79	U	1.0	0.79	ug/L			09/27/23 12:02	1
Ethylbenzene	0.39	U	1.0	0.39	ug/L			09/27/23 12:02	1
Isopropylbenzene	0.59	U	1.0	0.59	ug/L			09/27/23 12:02	1
m,p-Xylenes	1.2	U	10	1.2	ug/L			09/27/23 12:02	1
Methyl acetate	4.0	U	20	4.0	ug/L			09/27/23 12:02	1
Methyl tert-butyl ether	1.4	U	5.0	1.4	ug/L			09/27/23 12:02	1
Methylene Chloride	1.7	U	5.0	1.7	ug/L			09/27/23 12:02	1
o-Xylene	0.50	U	1.0	0.50	ug/L			09/27/23 12:02	1
Styrene	0.62	U	1.0	0.62	ug/L			09/27/23 12:02	1
Tetrachloroethene	0.66	U	1.0	0.66	ug/L			09/27/23 12:02	1
Toluene	0.48	U	1.0	0.48	ug/L			09/27/23 12:02	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			09/27/23 12:02	1
trans-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			09/27/23 12:02	1
Trichloroethene	0.79	U	5.0	0.79	ug/L			09/27/23 12:02	1
Trichlorofluoromethane	0.56	U	1.0	0.56	ug/L			09/27/23 12:02	1
Vinyl chloride	0.43	U	2.0	0.43	ug/L			09/27/23 12:02	1
Xylenes, Total	1.2	U	10	1.2	ug/L			09/27/23 12:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*63 - 144*		*09/27/23 12:02*	*1*
4-Bromofluorobenzene (Surr)	*97*		*74 - 124*		*09/27/23 12:02*	*1*
Dibromofluoromethane (Surr)	*108*		*75 - 131*		*09/27/23 12:02*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*09/27/23 12:02*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	0.46	U	1.0	0.46	ug/L			09/28/23 14:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*63 - 144*		*09/28/23 14:30*	*1*
4-Bromofluorobenzene (Surr)	*99*		*74 - 124*		*09/28/23 14:30*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 131*		*09/28/23 14:30*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*09/28/23 14:30*	*1*

Client Sample ID: LC34-DPT0929-008.0-20230922

Lab Sample ID: 670-27359-7

Date Collected: 09/22/23 08:00

Matrix: Water

Date Received: 09/23/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.59	U	5.0	0.59	ug/L			09/27/23 12:23	1
1,1,2,2-Tetrachloroethane	0.47	U	1.0	0.47	ug/L			09/27/23 12:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	10	1.1	ug/L			09/27/23 12:23	1
1,1,2-Trichloroethane	0.41	U	1.0	0.41	ug/L			09/27/23 12:23	1
1,1-Dichloroethane	0.64	U	1.0	0.64	ug/L			09/27/23 12:23	1
1,1-Dichloroethene	0.74	U	1.0	0.74	ug/L			09/27/23 12:23	1
1,2,4-Trichlorobenzene	1.8	U	5.0	1.8	ug/L			09/27/23 12:23	1
1,2-Dibromo-3-Chloropropane	0.67	U	5.0	0.67	ug/L			09/27/23 12:23	1
1,2-Dibromoethane (EDB)	1.0	U	5.0	1.0	ug/L			09/27/23 12:23	1
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			09/27/23 12:23	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27359-1

Client Sample ID: LC34-DPT0929-008.0-20230922
Date Collected: 09/22/23 08:00
Date Received: 09/23/23 08:00

Lab Sample ID: 670-27359-7
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	0.37	U	1.0	0.37	ug/L			09/27/23 12:23	1
1,2-Dichloropropane	0.56	U	5.0	0.56	ug/L			09/27/23 12:23	1
1,3-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			09/27/23 12:23	1
1,4-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			09/27/23 12:23	1
2-Butanone (MEK)	8.3	U	50	8.3	ug/L			09/27/23 12:23	1
2-Hexanone	7.4	U	50	7.4	ug/L			09/27/23 12:23	1
4-Methyl-2-pentanone	7.5	U	50	7.5	ug/L			09/27/23 12:23	1
Acetone	3.1	U	100	3.1	ug/L			09/27/23 12:23	1
Benzene	0.46	U	1.0	0.46	ug/L			09/27/23 12:23	1
Bromodichloromethane	0.55	U	1.0	0.55	ug/L			09/27/23 12:23	1
Bromoform	0.63	U	5.0	0.63	ug/L			09/27/23 12:23	1
Bromomethane	1.4	U	5.0	1.4	ug/L			09/27/23 12:23	1
Carbon disulfide	0.78	U	5.0	0.78	ug/L			09/27/23 12:23	1
Carbon tetrachloride	0.90	U	5.0	0.90	ug/L			09/27/23 12:23	1
Chlorobenzene	0.46	U	1.0	0.46	ug/L			09/27/23 12:23	1
Chloroethane	2.0	U	10	2.0	ug/L			09/27/23 12:23	1
Chloroform	0.46	U	1.0	0.46	ug/L			09/27/23 12:23	1
Chloromethane	2.0	U	10	2.0	ug/L			09/27/23 12:23	1
cis-1,2-Dichloroethene	**33**		1.0	0.46	ug/L			09/27/23 12:23	1
cis-1,3-Dichloropropene	1.1	U	5.0	1.1	ug/L			09/27/23 12:23	1
Cyclohexane	1.3	U	5.0	1.3	ug/L			09/27/23 12:23	1
Dibromochloromethane	0.55	U	5.0	0.55	ug/L			09/27/23 12:23	1
Dichlorodifluoromethane	0.79	U	1.0	0.79	ug/L			09/27/23 12:23	1
Ethylbenzene	0.39	U	1.0	0.39	ug/L			09/27/23 12:23	1
Isopropylbenzene	0.59	U	1.0	0.59	ug/L			09/27/23 12:23	1
m,p-Xylenes	1.2	U	10	1.2	ug/L			09/27/23 12:23	1
Methyl acetate	4.0	U	20	4.0	ug/L			09/27/23 12:23	1
Methyl tert-butyl ether	1.4	U	5.0	1.4	ug/L			09/27/23 12:23	1
Methylene Chloride	1.7	U	5.0	1.7	ug/L			09/27/23 12:23	1
o-Xylene	0.50	U	1.0	0.50	ug/L			09/27/23 12:23	1
Styrene	0.62	U	1.0	0.62	ug/L			09/27/23 12:23	1
Tetrachloroethene	0.66	U	1.0	0.66	ug/L			09/27/23 12:23	1
Toluene	0.48	U	1.0	0.48	ug/L			09/27/23 12:23	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			09/27/23 12:23	1
trans-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			09/27/23 12:23	1
Trichloroethene	0.79	U	5.0	0.79	ug/L			09/27/23 12:23	1
Trichlorofluoromethane	0.56	U	1.0	0.56	ug/L			09/27/23 12:23	1
Vinyl chloride	**61**		2.0	0.43	ug/L			09/27/23 12:23	1
Xylenes, Total	1.2	U	10	1.2	ug/L			09/27/23 12:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*63 - 144*		*09/27/23 12:23*	*1*
4-Bromofluorobenzene (Surr)	*101*		*74 - 124*		*09/27/23 12:23*	*1*
Dibromofluoromethane (Surr)	*105*		*75 - 131*		*09/27/23 12:23*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*09/27/23 12:23*	*1*

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27359-1

Client Sample ID: LC34-DPT0929-013.0-20230922
Date Collected: 09/22/23 08:15
Date Received: 09/23/23 08:00

Lab Sample ID: 670-27359-8
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.59	U	5.0	0.59	ug/L			09/27/23 12:43	1
1,1,2,2-Tetrachloroethane	0.47	U	1.0	0.47	ug/L			09/27/23 12:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	10	1.1	ug/L			09/27/23 12:43	1
1,1,2-Trichloroethane	0.41	U	1.0	0.41	ug/L			09/27/23 12:43	1
1,1-Dichloroethane	0.64	U	1.0	0.64	ug/L			09/27/23 12:43	1
1,1-Dichloroethene	0.74	U	1.0	0.74	ug/L			09/27/23 12:43	1
1,2,4-Trichlorobenzene	1.8	U	5.0	1.8	ug/L			09/27/23 12:43	1
1,2-Dibromo-3-Chloropropane	0.67	U	5.0	0.67	ug/L			09/27/23 12:43	1
1,2-Dibromoethane (EDB)	1.0	U	5.0	1.0	ug/L			09/27/23 12:43	1
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			09/27/23 12:43	1
1,2-Dichloroethane	0.37	U	1.0	0.37	ug/L			09/27/23 12:43	1
1,2-Dichloropropane	0.56	U	5.0	0.56	ug/L			09/27/23 12:43	1
1,3-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			09/27/23 12:43	1
1,4-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			09/27/23 12:43	1
2-Butanone (MEK)	8.3	U	50	8.3	ug/L			09/27/23 12:43	1
2-Hexanone	7.4	U	50	7.4	ug/L			09/27/23 12:43	1
4-Methyl-2-pentanone	7.5	U	50	7.5	ug/L			09/27/23 12:43	1
Acetone	3.1	U	100	3.1	ug/L			09/27/23 12:43	1
Benzene	0.46	U	1.0	0.46	ug/L			09/27/23 12:43	1
Bromodichloromethane	0.55	U	1.0	0.55	ug/L			09/27/23 12:43	1
Bromoform	0.63	U	5.0	0.63	ug/L			09/27/23 12:43	1
Bromomethane	1.4	U	5.0	1.4	ug/L			09/27/23 12:43	1
Carbon disulfide	0.78	U	5.0	0.78	ug/L			09/27/23 12:43	1
Carbon tetrachloride	0.90	U	5.0	0.90	ug/L			09/27/23 12:43	1
Chlorobenzene	0.46	U	1.0	0.46	ug/L			09/27/23 12:43	1
Chloroethane	2.0	U	10	2.0	ug/L			09/27/23 12:43	1
Chloroform	0.46	U	1.0	0.46	ug/L			09/27/23 12:43	1
Chloromethane	2.0	U	10	2.0	ug/L			09/27/23 12:43	1
cis-1,2-Dichloroethene	**38**		1.0	0.46	ug/L			09/27/23 12:43	1
cis-1,3-Dichloropropene	1.1	U	5.0	1.1	ug/L			09/27/23 12:43	1
Cyclohexane	1.3	U	5.0	1.3	ug/L			09/27/23 12:43	1
Dibromochloromethane	0.55	U	5.0	0.55	ug/L			09/27/23 12:43	1
Dichlorodifluoromethane	0.79	U	1.0	0.79	ug/L			09/27/23 12:43	1
Ethylbenzene	0.39	U	1.0	0.39	ug/L			09/27/23 12:43	1
Isopropylbenzene	0.59	U	1.0	0.59	ug/L			09/27/23 12:43	1
m,p-Xylenes	1.2	U	10	1.2	ug/L			09/27/23 12:43	1
Methyl acetate	4.0	U	20	4.0	ug/L			09/27/23 12:43	1
Methyl tert-butyl ether	1.4	U	5.0	1.4	ug/L			09/27/23 12:43	1
Methylene Chloride	1.7	U	5.0	1.7	ug/L			09/27/23 12:43	1
o-Xylene	0.50	U	1.0	0.50	ug/L			09/27/23 12:43	1
Styrene	0.62	U	1.0	0.62	ug/L			09/27/23 12:43	1
Tetrachloroethene	0.66	U	1.0	0.66	ug/L			09/27/23 12:43	1
Toluene	0.48	U	1.0	0.48	ug/L			09/27/23 12:43	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			09/27/23 12:43	1
trans-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			09/27/23 12:43	1
Trichloroethene	0.79	U	5.0	0.79	ug/L			09/27/23 12:43	1
Trichlorofluoromethane	0.56	U	1.0	0.56	ug/L			09/27/23 12:43	1
Vinyl chloride	**84**		2.0	0.43	ug/L			09/27/23 12:43	1
Xylenes, Total	1.2	U	10	1.2	ug/L			09/27/23 12:43	1

Client Sample ID: LC34-DPT0929-013.0-20230922
Lab Sample ID: 670-27359-8
Date Collected: 09/22/23 08:15
Matrix: Water
Date Received: 09/23/23 08:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*63 - 144*		*09/27/23 12:43*	*1*
4-Bromofluorobenzene (Surr)	*99*		*74 - 124*		*09/27/23 12:43*	*1*
Dibromofluoromethane (Surr)	*107*		*75 - 131*		*09/27/23 12:43*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*09/27/23 12:43*	*1*

Client Sample ID: LC34-DPT0929-018.0-20230922
Lab Sample ID: 670-27359-9
Date Collected: 09/22/23 08:30
Matrix: Water
Date Received: 09/23/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.9	U	50	5.9	ug/L			09/27/23 16:29	10
1,1,2,2-Tetrachloroethane	4.7	U	10	4.7	ug/L			09/27/23 16:29	10
1,1,2-Trichloro-1,2,2-trifluoroethane	11	U	100	11	ug/L			09/27/23 16:29	10
1,1,2-Trichloroethane	4.1	U	10	4.1	ug/L			09/27/23 16:29	10
1,1-Dichloroethane	6.4	U	10	6.4	ug/L			09/27/23 16:29	10
1,1-Dichloroethene	7.4	U	10	7.4	ug/L			09/27/23 16:29	10
1,2,4-Trichlorobenzene	18	U	50	18	ug/L			09/27/23 16:29	10
1,2-Dibromo-3-Chloropropane	6.7	U	50	6.7	ug/L			09/27/23 16:29	10
1,2-Dibromoethane (EDB)	10	U	50	10	ug/L			09/27/23 16:29	10
1,2-Dichlorobenzene	4.3	U	10	4.3	ug/L			09/27/23 16:29	10
1,2-Dichloroethane	3.7	U	10	3.7	ug/L			09/27/23 16:29	10
1,2-Dichloropropane	5.6	U	50	5.6	ug/L			09/27/23 16:29	10
1,3-Dichlorobenzene	4.1	U	10	4.1	ug/L			09/27/23 16:29	10
1,4-Dichlorobenzene	4.5	U	10	4.5	ug/L			09/27/23 16:29	10
2-Butanone (MEK)	83	U	500	83	ug/L			09/27/23 16:29	10
2-Hexanone	74	U	500	74	ug/L			09/27/23 16:29	10
4-Methyl-2-pentanone	75	U	500	75	ug/L			09/27/23 16:29	10
Acetone	31	U	1000	31	ug/L			09/27/23 16:29	10
Benzene	4.6	U	10	4.6	ug/L			09/27/23 16:29	10
Bromodichloromethane	5.5	U	10	5.5	ug/L			09/27/23 16:29	10
Bromoform	6.3	U	50	6.3	ug/L			09/27/23 16:29	10
Bromomethane	14	U	50	14	ug/L			09/27/23 16:29	10
Carbon disulfide	7.8	U	50	7.8	ug/L			09/27/23 16:29	10
Carbon tetrachloride	9.0	U	50	9.0	ug/L			09/27/23 16:29	10
Chlorobenzene	4.6	U	10	4.6	ug/L			09/27/23 16:29	10
Chloroethane	20	U	100	20	ug/L			09/27/23 16:29	10
Chloroform	4.6	U	10	4.6	ug/L			09/27/23 16:29	10
Chloromethane	20	U	100	20	ug/L			09/27/23 16:29	10
cis-1,3-Dichloropropene	11	U	50	11	ug/L			09/27/23 16:29	10
Cyclohexane	13	U	50	13	ug/L			09/27/23 16:29	10
Dibromochloromethane	5.5	U	50	5.5	ug/L			09/27/23 16:29	10
Dichlorodifluoromethane	7.9	U	10	7.9	ug/L			09/27/23 16:29	10
Ethylbenzene	3.9	U	10	3.9	ug/L			09/27/23 16:29	10
Isopropylbenzene	5.9	U	10	5.9	ug/L			09/27/23 16:29	10
m,p-Xylenes	12	U	100	12	ug/L			09/27/23 16:29	10
Methyl acetate	40	U	200	40	ug/L			09/27/23 16:29	10
Methyl tert-butyl ether	14	U	50	14	ug/L			09/27/23 16:29	10
Methylene Chloride	17	U	50	17	ug/L			09/27/23 16:29	10
o-Xylene	5.0	U	10	5.0	ug/L			09/27/23 16:29	10

Client Sample ID: LC34-DPT0929-018.0-20230922
Lab Sample ID: 670-27359-9
Date Collected: 09/22/23 08:30
Matrix: Water
Date Received: 09/23/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	6.2	U	10	6.2	ug/L			09/27/23 16:29	10
Tetrachloroethene	6.6	U	10	6.6	ug/L			09/27/23 16:29	10
Toluene	4.8	U	10	4.8	ug/L			09/27/23 16:29	10
trans-1,2-Dichloroethene	**10**		10	3.7	ug/L			09/27/23 16:29	10
trans-1,3-Dichloropropene	13	U	50	13	ug/L			09/27/23 16:29	10
Trichloroethene	7.9	U	50	7.9	ug/L			09/27/23 16:29	10
Trichlorofluoromethane	5.6	U	10	5.6	ug/L			09/27/23 16:29	10
Vinyl chloride	**820**		20	4.3	ug/L			09/27/23 16:29	10
Xylenes, Total	12	U	100	12	ug/L			09/27/23 16:29	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*63 - 144*		*09/27/23 16:29*	*10*
4-Bromofluorobenzene (Surr)	*102*		*74 - 124*		*09/27/23 16:29*	*10*
Dibromofluoromethane (Surr)	*104*		*75 - 131*		*09/27/23 16:29*	*10*
Toluene-d8 (Surr)	*99*		*80 - 120*		*09/27/23 16:29*	*10*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**1600**		50	23	ug/L			09/28/23 16:12	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*63 - 144*		*09/28/23 16:12*	*50*
4-Bromofluorobenzene (Surr)	*98*		*74 - 124*		*09/28/23 16:12*	*50*
Dibromofluoromethane (Surr)	*101*		*75 - 131*		*09/28/23 16:12*	*50*
Toluene-d8 (Surr)	*98*		*80 - 120*		*09/28/23 16:12*	*50*

Client Sample ID: LC34-DPT0929-025.0-20230922
Lab Sample ID: 670-27359-10
Date Collected: 09/22/23 08:45
Matrix: Water
Date Received: 09/23/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.9	U	50	5.9	ug/L			09/27/23 16:49	10
1,1,2,2-Tetrachloroethane	4.7	U	10	4.7	ug/L			09/27/23 16:49	10
1,1,2-Trichloro-1,2,2-trifluoroethane	11	U	100	11	ug/L			09/27/23 16:49	10
1,1,2-Trichloroethane	4.1	U	10	4.1	ug/L			09/27/23 16:49	10
1,1-Dichloroethane	6.4	U	10	6.4	ug/L			09/27/23 16:49	10
1,1-Dichloroethene	7.4	U	10	7.4	ug/L			09/27/23 16:49	10
1,2,4-Trichlorobenzene	18	U	50	18	ug/L			09/27/23 16:49	10
1,2-Dibromo-3-Chloropropane	6.7	U	50	6.7	ug/L			09/27/23 16:49	10
1,2-Dibromoethane (EDB)	10	U	50	10	ug/L			09/27/23 16:49	10
1,2-Dichlorobenzene	4.3	U	10	4.3	ug/L			09/27/23 16:49	10
1,2-Dichloroethane	3.7	U	10	3.7	ug/L			09/27/23 16:49	10
1,2-Dichloropropane	5.6	U	50	5.6	ug/L			09/27/23 16:49	10
1,3-Dichlorobenzene	4.1	U	10	4.1	ug/L			09/27/23 16:49	10
1,4-Dichlorobenzene	4.5	U	10	4.5	ug/L			09/27/23 16:49	10
2-Butanone (MEK)	83	U	500	83	ug/L			09/27/23 16:49	10
2-Hexanone	74	U	500	74	ug/L			09/27/23 16:49	10
4-Methyl-2-pentanone	75	U	500	75	ug/L			09/27/23 16:49	10
Acetone	31	U	1000	31	ug/L			09/27/23 16:49	10
Benzene	4.6	U	10	4.6	ug/L			09/27/23 16:49	10

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27359-1

Client Sample ID: LC34-DPT0929-025.0-20230922
Date Collected: 09/22/23 08:45
Date Received: 09/23/23 08:00

Lab Sample ID: 670-27359-10
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	5.5	U	10	5.5	ug/L			09/27/23 16:49	10
Bromoform	6.3	U	50	6.3	ug/L			09/27/23 16:49	10
Bromomethane	14	U	50	14	ug/L			09/27/23 16:49	10
Carbon disulfide	7.8	U	50	7.8	ug/L			09/27/23 16:49	10
Carbon tetrachloride	9.0	U	50	9.0	ug/L			09/27/23 16:49	10
Chlorobenzene	4.6	U	10	4.6	ug/L			09/27/23 16:49	10
Chloroethane	20	U	100	20	ug/L			09/27/23 16:49	10
Chloroform	4.6	U	10	4.6	ug/L			09/27/23 16:49	10
Chloromethane	20	U	100	20	ug/L			09/27/23 16:49	10
cis-1,3-Dichloropropene	11	U	50	11	ug/L			09/27/23 16:49	10
Cyclohexane	13	U	50	13	ug/L			09/27/23 16:49	10
Dibromochloromethane	5.5	U	50	5.5	ug/L			09/27/23 16:49	10
Dichlorodifluoromethane	7.9	U	10	7.9	ug/L			09/27/23 16:49	10
Ethylbenzene	3.9	U	10	3.9	ug/L			09/27/23 16:49	10
Isopropylbenzene	5.9	U	10	5.9	ug/L			09/27/23 16:49	10
m,p-Xylenes	12	U	100	12	ug/L			09/27/23 16:49	10
Methyl acetate	40	U	200	40	ug/L			09/27/23 16:49	10
Methyl tert-butyl ether	14	U	50	14	ug/L			09/27/23 16:49	10
Methylene Chloride	17	U	50	17	ug/L			09/27/23 16:49	10
o-Xylene	5.0	U	10	5.0	ug/L			09/27/23 16:49	10
Styrene	6.2	U	10	6.2	ug/L			09/27/23 16:49	10
Tetrachloroethene	6.6	U	10	6.6	ug/L			09/27/23 16:49	10
Toluene	4.8	U	10	4.8	ug/L			09/27/23 16:49	10
trans-1,2-Dichloroethene	**8.0**	**I**	10	3.7	ug/L			09/27/23 16:49	10
trans-1,3-Dichloropropene	13	U	50	13	ug/L			09/27/23 16:49	10
Trichloroethene	7.9	U	50	7.9	ug/L			09/27/23 16:49	10
Trichlorofluoromethane	5.6	U	10	5.6	ug/L			09/27/23 16:49	10
Vinyl chloride	**170**		20	4.3	ug/L			09/27/23 16:49	10
Xylenes, Total	12	U	100	12	ug/L			09/27/23 16:49	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*63 - 144*		*09/27/23 16:49*	*10*
4-Bromofluorobenzene (Surr)	*99*		*74 - 124*		*09/27/23 16:49*	*10*
Dibromofluoromethane (Surr)	*105*		*75 - 131*		*09/27/23 16:49*	*10*
Toluene-d8 (Surr)	*99*		*80 - 120*		*09/27/23 16:49*	*10*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**1700**		50	23	ug/L			09/28/23 16:33	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*63 - 144*		*09/28/23 16:33*	*50*
4-Bromofluorobenzene (Surr)	*96*		*74 - 124*		*09/28/23 16:33*	*50*
Dibromofluoromethane (Surr)	*100*		*75 - 131*		*09/28/23 16:33*	*50*
Toluene-d8 (Surr)	*96*		*80 - 120*		*09/28/23 16:33*	*50*

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27359-1

Client Sample ID: LC34-DPT0929-034.0-20230922
Date Collected: 09/22/23 09:00
Date Received: 09/23/23 08:00

Lab Sample ID: 670-27359-11
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.59	U	5.0	0.59	ug/L			09/27/23 13:04	1
1,1,2,2-Tetrachloroethane	0.47	U	1.0	0.47	ug/L			09/27/23 13:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	10	1.1	ug/L			09/27/23 13:04	1
1,1,2-Trichloroethane	0.41	U	1.0	0.41	ug/L			09/27/23 13:04	1
1,1-Dichloroethane	0.64	U	1.0	0.64	ug/L			09/27/23 13:04	1
1,1-Dichloroethene	0.74	U	1.0	0.74	ug/L			09/27/23 13:04	1
1,2,4-Trichlorobenzene	1.8	U	5.0	1.8	ug/L			09/27/23 13:04	1
1,2-Dibromo-3-Chloropropane	0.67	U	5.0	0.67	ug/L			09/27/23 13:04	1
1,2-Dibromoethane (EDB)	1.0	U	5.0	1.0	ug/L			09/27/23 13:04	1
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			09/27/23 13:04	1
1,2-Dichloroethane	0.37	U	1.0	0.37	ug/L			09/27/23 13:04	1
1,2-Dichloropropane	0.56	U	5.0	0.56	ug/L			09/27/23 13:04	1
1,3-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			09/27/23 13:04	1
1,4-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			09/27/23 13:04	1
2-Butanone (MEK)	8.3	U	50	8.3	ug/L			09/27/23 13:04	1
2-Hexanone	7.4	U	50	7.4	ug/L			09/27/23 13:04	1
4-Methyl-2-pentanone	7.5	U	50	7.5	ug/L			09/27/23 13:04	1
Acetone	3.1	U	100	3.1	ug/L			09/27/23 13:04	1
Benzene	0.46	U	1.0	0.46	ug/L			09/27/23 13:04	1
Bromodichloromethane	0.55	U	1.0	0.55	ug/L			09/27/23 13:04	1
Bromoform	0.63	U	5.0	0.63	ug/L			09/27/23 13:04	1
Bromomethane	1.4	U	5.0	1.4	ug/L			09/27/23 13:04	1
Carbon disulfide	0.78	U	5.0	0.78	ug/L			09/27/23 13:04	1
Carbon tetrachloride	0.90	U	5.0	0.90	ug/L			09/27/23 13:04	1
Chlorobenzene	0.46	U	1.0	0.46	ug/L			09/27/23 13:04	1
Chloroethane	2.0	U	10	2.0	ug/L			09/27/23 13:04	1
Chloroform	0.46	U	1.0	0.46	ug/L			09/27/23 13:04	1
Chloromethane	2.0	U	10	2.0	ug/L			09/27/23 13:04	1
cis-1,2-Dichloroethene	0.46	U	1.0	0.46	ug/L			09/27/23 13:04	1
cis-1,3-Dichloropropene	1.1	U	5.0	1.1	ug/L			09/27/23 13:04	1
Cyclohexane	1.3	U	5.0	1.3	ug/L			09/27/23 13:04	1
Dibromochloromethane	0.55	U	5.0	0.55	ug/L			09/27/23 13:04	1
Dichlorodifluoromethane	0.79	U	1.0	0.79	ug/L			09/27/23 13:04	1
Ethylbenzene	0.39	U	1.0	0.39	ug/L			09/27/23 13:04	1
Isopropylbenzene	0.59	U	1.0	0.59	ug/L			09/27/23 13:04	1
m,p-Xylenes	1.2	U	10	1.2	ug/L			09/27/23 13:04	1
Methyl acetate	4.0	U	20	4.0	ug/L			09/27/23 13:04	1
Methyl tert-butyl ether	1.4	U	5.0	1.4	ug/L			09/27/23 13:04	1
Methylene Chloride	1.7	U	5.0	1.7	ug/L			09/27/23 13:04	1
o-Xylene	0.50	U	1.0	0.50	ug/L			09/27/23 13:04	1
Styrene	0.62	U	1.0	0.62	ug/L			09/27/23 13:04	1
Tetrachloroethene	0.66	U	1.0	0.66	ug/L			09/27/23 13:04	1
Toluene	0.48	U	1.0	0.48	ug/L			09/27/23 13:04	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			09/27/23 13:04	1
trans-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			09/27/23 13:04	1
Trichloroethene	0.79	U	5.0	0.79	ug/L			09/27/23 13:04	1
Trichlorofluoromethane	0.56	U	1.0	0.56	ug/L			09/27/23 13:04	1
Vinyl chloride	0.43	U	2.0	0.43	ug/L			09/27/23 13:04	1
Xylenes, Total	1.2	U	10	1.2	ug/L			09/27/23 13:04	1

Client Sample ID: LC34-DPT0929-034.0-20230922
Lab Sample ID: 670-27359-11
Date Collected: 09/22/23 09:00
Matrix: Water
Date Received: 09/23/23 08:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*63 - 144*		*09/27/23 13:04*	*1*
4-Bromofluorobenzene (Surr)	*101*		*74 - 124*		*09/27/23 13:04*	*1*
Dibromofluoromethane (Surr)	*106*		*75 - 131*		*09/27/23 13:04*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*09/27/23 13:04*	*1*

Client Sample ID: LC34-DPT0929-038.0-20230922
Lab Sample ID: 670-27359-12
Date Collected: 09/22/23 09:20
Matrix: Water
Date Received: 09/23/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.59	U	5.0	0.59	ug/L			09/27/23 13:24	1
1,1,2,2-Tetrachloroethane	0.47	U	1.0	0.47	ug/L			09/27/23 13:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	10	1.1	ug/L			09/27/23 13:24	1
1,1,2-Trichloroethane	0.41	U	1.0	0.41	ug/L			09/27/23 13:24	1
1,1-Dichloroethane	0.64	U	1.0	0.64	ug/L			09/27/23 13:24	1
1,1-Dichloroethene	0.74	U	1.0	0.74	ug/L			09/27/23 13:24	1
1,2,4-Trichlorobenzene	1.8	U	5.0	1.8	ug/L			09/27/23 13:24	1
1,2-Dibromo-3-Chloropropane	0.67	U	5.0	0.67	ug/L			09/27/23 13:24	1
1,2-Dibromoethane (EDB)	1.0	U	5.0	1.0	ug/L			09/27/23 13:24	1
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			09/27/23 13:24	1
1,2-Dichloroethane	0.37	U	1.0	0.37	ug/L			09/27/23 13:24	1
1,2-Dichloropropane	0.56	U	5.0	0.56	ug/L			09/27/23 13:24	1
1,3-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			09/27/23 13:24	1
1,4-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			09/27/23 13:24	1
2-Butanone (MEK)	8.3	U	50	8.3	ug/L			09/27/23 13:24	1
2-Hexanone	7.4	U	50	7.4	ug/L			09/27/23 13:24	1
4-Methyl-2-pentanone	7.5	U	50	7.5	ug/L			09/27/23 13:24	1
Acetone	3.1	U	100	3.1	ug/L			09/27/23 13:24	1
Benzene	0.46	U	1.0	0.46	ug/L			09/27/23 13:24	1
Bromodichloromethane	0.55	U	1.0	0.55	ug/L			09/27/23 13:24	1
Bromoform	0.63	U	5.0	0.63	ug/L			09/27/23 13:24	1
Bromomethane	1.4	U	5.0	1.4	ug/L			09/27/23 13:24	1
Carbon disulfide	0.78	U	5.0	0.78	ug/L			09/27/23 13:24	1
Carbon tetrachloride	0.90	U	5.0	0.90	ug/L			09/27/23 13:24	1
Chlorobenzene	0.46	U	1.0	0.46	ug/L			09/27/23 13:24	1
Chloroethane	2.0	U	10	2.0	ug/L			09/27/23 13:24	1
Chloroform	0.46	U	1.0	0.46	ug/L			09/27/23 13:24	1
Chloromethane	2.0	U	10	2.0	ug/L			09/27/23 13:24	1
cis-1,2-Dichloroethene	0.46	U	1.0	0.46	ug/L			09/27/23 13:24	1
cis-1,3-Dichloropropene	1.1	U	5.0	1.1	ug/L			09/27/23 13:24	1
Cyclohexane	1.3	U	5.0	1.3	ug/L			09/27/23 13:24	1
Dibromochloromethane	0.55	U	5.0	0.55	ug/L			09/27/23 13:24	1
Dichlorodifluoromethane	0.79	U	1.0	0.79	ug/L			09/27/23 13:24	1
Ethylbenzene	0.39	U	1.0	0.39	ug/L			09/27/23 13:24	1
Isopropylbenzene	0.59	U	1.0	0.59	ug/L			09/27/23 13:24	1
m,p-Xylenes	1.2	U	10	1.2	ug/L			09/27/23 13:24	1
Methyl acetate	4.0	U	20	4.0	ug/L			09/27/23 13:24	1
Methyl tert-butyl ether	1.4	U	5.0	1.4	ug/L			09/27/23 13:24	1
Methylene Chloride	1.7	U	5.0	1.7	ug/L			09/27/23 13:24	1

Client Sample ID: LC34-DPT0929-038.0-20230922

Lab Sample ID: 670-27359-12

Date Collected: 09/22/23 09:20

Matrix: Water

Date Received: 09/23/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	0.50	U	1.0	0.50	ug/L			09/27/23 13:24	1
Styrene	0.62	U	1.0	0.62	ug/L			09/27/23 13:24	1
Tetrachloroethene	0.66	U	1.0	0.66	ug/L			09/27/23 13:24	1
Toluene	0.48	U	1.0	0.48	ug/L			09/27/23 13:24	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			09/27/23 13:24	1
trans-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			09/27/23 13:24	1
Trichloroethene	0.79	U	5.0	0.79	ug/L			09/27/23 13:24	1
Trichlorofluoromethane	0.56	U	1.0	0.56	ug/L			09/27/23 13:24	1
Vinyl chloride	0.43	U	2.0	0.43	ug/L			09/27/23 13:24	1
Xylenes, Total	1.2	U	10	1.2	ug/L			09/27/23 13:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*63 - 144*		*09/27/23 13:24*	*1*
4-Bromofluorobenzene (Surr)	*100*		*74 - 124*		*09/27/23 13:24*	*1*
Dibromofluoromethane (Surr)	*109*		*75 - 131*		*09/27/23 13:24*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*09/27/23 13:24*	*1*

Client Sample ID: LC34-DPT0930-008.0-20230922

Lab Sample ID: 670-27359-13

Date Collected: 09/22/23 09:55

Matrix: Water

Date Received: 09/23/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.59	U	5.0	0.59	ug/L			09/27/23 13:45	1
1,1,2,2-Tetrachloroethane	0.47	U	1.0	0.47	ug/L			09/27/23 13:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	10	1.1	ug/L			09/27/23 13:45	1
1,1,2-Trichloroethane	0.41	U	1.0	0.41	ug/L			09/27/23 13:45	1
1,1-Dichloroethane	0.64	U	1.0	0.64	ug/L			09/27/23 13:45	1
1,1-Dichloroethene	0.74	U	1.0	0.74	ug/L			09/27/23 13:45	1
1,2,4-Trichlorobenzene	1.8	U	5.0	1.8	ug/L			09/27/23 13:45	1
1,2-Dibromo-3-Chloropropane	0.67	U	5.0	0.67	ug/L			09/27/23 13:45	1
1,2-Dibromoethane (EDB)	1.0	U	5.0	1.0	ug/L			09/27/23 13:45	1
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			09/27/23 13:45	1
1,2-Dichloroethane	0.37	U	1.0	0.37	ug/L			09/27/23 13:45	1
1,2-Dichloropropane	0.56	U	5.0	0.56	ug/L			09/27/23 13:45	1
1,3-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			09/27/23 13:45	1
1,4-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			09/27/23 13:45	1
2-Butanone (MEK)	8.3	U	50	8.3	ug/L			09/27/23 13:45	1
2-Hexanone	7.4	U	50	7.4	ug/L			09/27/23 13:45	1
4-Methyl-2-pentanone	7.5	U	50	7.5	ug/L			09/27/23 13:45	1
Acetone	3.1	U	100	3.1	ug/L			09/27/23 13:45	1
Benzene	0.46	U	1.0	0.46	ug/L			09/27/23 13:45	1
Bromodichloromethane	0.55	U	1.0	0.55	ug/L			09/27/23 13:45	1
Bromoform	0.63	U	5.0	0.63	ug/L			09/27/23 13:45	1
Bromomethane	1.4	U	5.0	1.4	ug/L			09/27/23 13:45	1
Carbon disulfide	0.78	U	5.0	0.78	ug/L			09/27/23 13:45	1
Carbon tetrachloride	0.90	U	5.0	0.90	ug/L			09/27/23 13:45	1
Chlorobenzene	0.46	U	1.0	0.46	ug/L			09/27/23 13:45	1
Chloroethane	2.0	U	10	2.0	ug/L			09/27/23 13:45	1
Chloroform	0.46	U	1.0	0.46	ug/L			09/27/23 13:45	1

Client Sample ID: LC34-DPT0930-008.0-20230922
Lab Sample ID: 670-27359-13
Date Collected: 09/22/23 09:55
Matrix: Water
Date Received: 09/23/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	2.0	U	10	2.0	ug/L			09/27/23 13:45	1
cis-1,2-Dichloroethene	**24**		1.0	0.46	ug/L			09/27/23 13:45	1
cis-1,3-Dichloropropene	1.1	U	5.0	1.1	ug/L			09/27/23 13:45	1
Cyclohexane	1.3	U	5.0	1.3	ug/L			09/27/23 13:45	1
Dibromochloromethane	0.55	U	5.0	0.55	ug/L			09/27/23 13:45	1
Dichlorodifluoromethane	0.79	U	1.0	0.79	ug/L			09/27/23 13:45	1
Ethylbenzene	0.39	U	1.0	0.39	ug/L			09/27/23 13:45	1
Isopropylbenzene	0.59	U	1.0	0.59	ug/L			09/27/23 13:45	1
m,p-Xylenes	1.2	U	10	1.2	ug/L			09/27/23 13:45	1
Methyl acetate	4.0	U	20	4.0	ug/L			09/27/23 13:45	1
Methyl tert-butyl ether	1.4	U	5.0	1.4	ug/L			09/27/23 13:45	1
Methylene Chloride	1.7	U	5.0	1.7	ug/L			09/27/23 13:45	1
o-Xylene	0.50	U	1.0	0.50	ug/L			09/27/23 13:45	1
Styrene	0.62	U	1.0	0.62	ug/L			09/27/23 13:45	1
Tetrachloroethene	0.66	U	1.0	0.66	ug/L			09/27/23 13:45	1
Toluene	0.48	U	1.0	0.48	ug/L			09/27/23 13:45	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			09/27/23 13:45	1
trans-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			09/27/23 13:45	1
Trichloroethene	0.79	U	5.0	0.79	ug/L			09/27/23 13:45	1
Trichlorofluoromethane	0.56	U	1.0	0.56	ug/L			09/27/23 13:45	1
Vinyl chloride	**53**		2.0	0.43	ug/L			09/27/23 13:45	1
Xylenes, Total	1.2	U	10	1.2	ug/L			09/27/23 13:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*63 - 144*		*09/27/23 13:45*	*1*
4-Bromofluorobenzene (Surr)	*102*		*74 - 124*		*09/27/23 13:45*	*1*
Dibromofluoromethane (Surr)	*106*		*75 - 131*		*09/27/23 13:45*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*09/27/23 13:45*	*1*

Client Sample ID: LC34-DPT0930-013.0-20230922
Lab Sample ID: 670-27359-14
Date Collected: 09/22/23 10:10
Matrix: Water
Date Received: 09/23/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.59	U	5.0	0.59	ug/L			09/27/23 14:05	1
1,1,2,2-Tetrachloroethane	0.47	U	1.0	0.47	ug/L			09/27/23 14:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	10	1.1	ug/L			09/27/23 14:05	1
1,1,2-Trichloroethane	0.41	U	1.0	0.41	ug/L			09/27/23 14:05	1
1,1-Dichloroethane	0.64	U	1.0	0.64	ug/L			09/27/23 14:05	1
1,1-Dichloroethene	0.74	U	1.0	0.74	ug/L			09/27/23 14:05	1
1,2,4-Trichlorobenzene	1.8	U	5.0	1.8	ug/L			09/27/23 14:05	1
1,2-Dibromo-3-Chloropropane	0.67	U	5.0	0.67	ug/L			09/27/23 14:05	1
1,2-Dibromoethane (EDB)	1.0	U	5.0	1.0	ug/L			09/27/23 14:05	1
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			09/27/23 14:05	1
1,2-Dichloroethane	0.37	U	1.0	0.37	ug/L			09/27/23 14:05	1
1,2-Dichloropropane	0.56	U	5.0	0.56	ug/L			09/27/23 14:05	1
1,3-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			09/27/23 14:05	1
1,4-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			09/27/23 14:05	1
2-Butanone (MEK)	8.3	U	50	8.3	ug/L			09/27/23 14:05	1

Client Sample ID: LC34-DPT0930-013.0-20230922

Lab Sample ID: 670-27359-14

Date Collected: 09/22/23 10:10

Matrix: Water

Date Received: 09/23/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	7.4	U	50	7.4	ug/L			09/27/23 14:05	1
4-Methyl-2-pentanone	7.5	U	50	7.5	ug/L			09/27/23 14:05	1
Acetone	3.1	U	100	3.1	ug/L			09/27/23 14:05	1
Benzene	0.46	U	1.0	0.46	ug/L			09/27/23 14:05	1
Bromodichloromethane	0.55	U	1.0	0.55	ug/L			09/27/23 14:05	1
Bromoform	0.63	U	5.0	0.63	ug/L			09/27/23 14:05	1
Bromomethane	1.4	U	5.0	1.4	ug/L			09/27/23 14:05	1
Carbon disulfide	0.78	U	5.0	0.78	ug/L			09/27/23 14:05	1
Carbon tetrachloride	0.90	U	5.0	0.90	ug/L			09/27/23 14:05	1
Chlorobenzene	0.46	U	1.0	0.46	ug/L			09/27/23 14:05	1
Chloroethane	2.0	U	10	2.0	ug/L			09/27/23 14:05	1
Chloroform	0.46	U	1.0	0.46	ug/L			09/27/23 14:05	1
Chloromethane	2.0	U	10	2.0	ug/L			09/27/23 14:05	1
cis-1,2-Dichloroethene	**56**		1.0	0.46	ug/L			09/27/23 14:05	1
cis-1,3-Dichloropropene	1.1	U	5.0	1.1	ug/L			09/27/23 14:05	1
Cyclohexane	1.3	U	5.0	1.3	ug/L			09/27/23 14:05	1
Dibromochloromethane	0.55	U	5.0	0.55	ug/L			09/27/23 14:05	1
Dichlorodifluoromethane	0.79	U	1.0	0.79	ug/L			09/27/23 14:05	1
Ethylbenzene	0.39	U	1.0	0.39	ug/L			09/27/23 14:05	1
Isopropylbenzene	0.59	U	1.0	0.59	ug/L			09/27/23 14:05	1
m,p-Xylenes	1.2	U	10	1.2	ug/L			09/27/23 14:05	1
Methyl acetate	4.0	U	20	4.0	ug/L			09/27/23 14:05	1
Methyl tert-butyl ether	1.4	U	5.0	1.4	ug/L			09/27/23 14:05	1
Methylene Chloride	1.7	U	5.0	1.7	ug/L			09/27/23 14:05	1
o-Xylene	0.50	U	1.0	0.50	ug/L			09/27/23 14:05	1
Styrene	0.62	U	1.0	0.62	ug/L			09/27/23 14:05	1
Tetrachloroethene	0.66	U	1.0	0.66	ug/L			09/27/23 14:05	1
Toluene	0.48	U	1.0	0.48	ug/L			09/27/23 14:05	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			09/27/23 14:05	1
trans-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			09/27/23 14:05	1
Trichloroethene	0.79	U	5.0	0.79	ug/L			09/27/23 14:05	1
Trichlorofluoromethane	0.56	U	1.0	0.56	ug/L			09/27/23 14:05	1
Vinyl chloride	**120**		2.0	0.43	ug/L			09/27/23 14:05	1
Xylenes, Total	1.2	U	10	1.2	ug/L			09/27/23 14:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*63 - 144*		*09/27/23 14:05*	*1*
4-Bromofluorobenzene (Surr)	*99*		*74 - 124*		*09/27/23 14:05*	*1*
Dibromofluoromethane (Surr)	*107*		*75 - 131*		*09/27/23 14:05*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*09/27/23 14:05*	*1*

Client Sample ID: LC34-DPT0930-018.0-20230922

Lab Sample ID: 670-27359-15

Date Collected: 09/22/23 10:25

Matrix: Water

Date Received: 09/23/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.59	U	5.0	0.59	ug/L			09/27/23 16:55	1
1,1,2,2-Tetrachloroethane	0.47	U	1.0	0.47	ug/L			09/27/23 16:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	10	1.1	ug/L			09/27/23 16:55	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27359-1

Client Sample ID: LC34-DPT0930-018.0-20230922
Date Collected: 09/22/23 10:25
Date Received: 09/23/23 08:00

Lab Sample ID: 670-27359-15
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	0.41	U	1.0	0.41	ug/L			09/27/23 16:55	1
1,1-Dichloroethane	0.64	U	1.0	0.64	ug/L			09/27/23 16:55	1
1,1-Dichloroethene	0.74	U	1.0	0.74	ug/L			09/27/23 16:55	1
1,2,4-Trichlorobenzene	1.8	U	5.0	1.8	ug/L			09/27/23 16:55	1
1,2-Dibromo-3-Chloropropane	0.67	U	5.0	0.67	ug/L			09/27/23 16:55	1
1,2-Dibromoethane (EDB)	1.0	U	5.0	1.0	ug/L			09/27/23 16:55	1
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			09/27/23 16:55	1
1,2-Dichloroethane	0.37	U	1.0	0.37	ug/L			09/27/23 16:55	1
1,2-Dichloropropane	0.56	U	5.0	0.56	ug/L			09/27/23 16:55	1
1,3-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			09/27/23 16:55	1
1,4-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			09/27/23 16:55	1
2-Butanone (MEK)	8.3	U	50	8.3	ug/L			09/27/23 16:55	1
2-Hexanone	7.4	U	50	7.4	ug/L			09/27/23 16:55	1
4-Methyl-2-pentanone	7.5	U	50	7.5	ug/L			09/27/23 16:55	1
Acetone	3.1	U	100	3.1	ug/L			09/27/23 16:55	1
Benzene	0.46	U	1.0	0.46	ug/L			09/27/23 16:55	1
Bromodichloromethane	0.55	U	1.0	0.55	ug/L			09/27/23 16:55	1
Bromoform	0.63	U	5.0	0.63	ug/L			09/27/23 16:55	1
Bromomethane	1.4	U	5.0	1.4	ug/L			09/27/23 16:55	1
Carbon disulfide	0.78	U	5.0	0.78	ug/L			09/27/23 16:55	1
Carbon tetrachloride	0.90	U	5.0	0.90	ug/L			09/27/23 16:55	1
Chlorobenzene	0.46	U	1.0	0.46	ug/L			09/27/23 16:55	1
Chloroethane	2.0	U	10	2.0	ug/L			09/27/23 16:55	1
Chloroform	0.46	U	1.0	0.46	ug/L			09/27/23 16:55	1
Chloromethane	2.0	U	10	2.0	ug/L			09/27/23 16:55	1
cis-1,3-Dichloropropene	1.1	U	5.0	1.1	ug/L			09/27/23 16:55	1
Cyclohexane	1.3	U	5.0	1.3	ug/L			09/27/23 16:55	1
Dibromochloromethane	0.55	U	5.0	0.55	ug/L			09/27/23 16:55	1
Dichlorodifluoromethane	0.79	U	1.0	0.79	ug/L			09/27/23 16:55	1
Ethylbenzene	0.39	U	1.0	0.39	ug/L			09/27/23 16:55	1
Isopropylbenzene	0.59	U	1.0	0.59	ug/L			09/27/23 16:55	1
m,p-Xylenes	1.2	U	10	1.2	ug/L			09/27/23 16:55	1
Methyl acetate	4.0	U	20	4.0	ug/L			09/27/23 16:55	1
Methyl tert-butyl ether	1.4	U	5.0	1.4	ug/L			09/27/23 16:55	1
Methylene Chloride	1.7	U	5.0	1.7	ug/L			09/27/23 16:55	1
o-Xylene	0.50	U	1.0	0.50	ug/L			09/27/23 16:55	1
Styrene	0.62	U	1.0	0.62	ug/L			09/27/23 16:55	1
Tetrachloroethene	0.66	U	1.0	0.66	ug/L			09/27/23 16:55	1
Toluene	0.48	U	1.0	0.48	ug/L			09/27/23 16:55	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			09/27/23 16:55	1
trans-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			09/27/23 16:55	1
Trichloroethene	0.79	U	5.0	0.79	ug/L			09/27/23 16:55	1
Trichlorofluoromethane	0.56	U	1.0	0.56	ug/L			09/27/23 16:55	1
Xylenes, Total	1.2	U	10	1.2	ug/L			09/27/23 16:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*63 - 144*		*09/27/23 16:55*	*1*
4-Bromofluorobenzene (Surr)	*99*		*74 - 124*		*09/27/23 16:55*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 131*		*09/27/23 16:55*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*09/27/23 16:55*	*1*

Client Sample ID: LC34-DPT0930-018.0-20230922

Lab Sample ID: 670-27359-15

Date Collected: 09/22/23 10:25

Matrix: Water

Date Received: 09/23/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**200**		10	4.6	ug/L			09/27/23 17:15	10
Vinyl chloride	**350**		20	4.3	ug/L			09/27/23 17:15	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*63 - 144*		*09/27/23 17:15*	*10*
4-Bromofluorobenzene (Surr)	*99*		*74 - 124*		*09/27/23 17:15*	*10*
Dibromofluoromethane (Surr)	*100*		*75 - 131*		*09/27/23 17:15*	*10*
Toluene-d8 (Surr)	*99*		*80 - 120*		*09/27/23 17:15*	*10*

Client Sample ID: LC34-DPT0930-025.020230922

Lab Sample ID: 670-27359-16

Date Collected: 09/22/23 10:40

Matrix: Water

Date Received: 09/23/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.9	U	50	5.9	ug/L			09/27/23 17:10	10
1,1,2,2-Tetrachloroethane	4.7	U	10	4.7	ug/L			09/27/23 17:10	10
1,1,2-Trichloro-1,2,2-trifluoroethane	11	U	100	11	ug/L			09/27/23 17:10	10
1,1,2-Trichloroethane	4.1	U	10	4.1	ug/L			09/27/23 17:10	10
1,1-Dichloroethane	6.4	U	10	6.4	ug/L			09/27/23 17:10	10
1,1-Dichloroethene	7.4	U	10	7.4	ug/L			09/27/23 17:10	10
1,2,4-Trichlorobenzene	18	U	50	18	ug/L			09/27/23 17:10	10
1,2-Dibromo-3-Chloropropane	6.7	U	50	6.7	ug/L			09/27/23 17:10	10
1,2-Dibromoethane (EDB)	10	U	50	10	ug/L			09/27/23 17:10	10
1,2-Dichlorobenzene	4.3	U	10	4.3	ug/L			09/27/23 17:10	10
1,2-Dichloroethane	3.7	U	10	3.7	ug/L			09/27/23 17:10	10
1,2-Dichloropropane	5.6	U	50	5.6	ug/L			09/27/23 17:10	10
1,3-Dichlorobenzene	4.1	U	10	4.1	ug/L			09/27/23 17:10	10
1,4-Dichlorobenzene	4.5	U	10	4.5	ug/L			09/27/23 17:10	10
2-Butanone (MEK)	83	U	500	83	ug/L			09/27/23 17:10	10
2-Hexanone	74	U	500	74	ug/L			09/27/23 17:10	10
4-Methyl-2-pentanone	75	U	500	75	ug/L			09/27/23 17:10	10
Acetone	31	U	1000	31	ug/L			09/27/23 17:10	10
Benzene	4.6	U	10	4.6	ug/L			09/27/23 17:10	10
Bromodichloromethane	5.5	U	10	5.5	ug/L			09/27/23 17:10	10
Bromoform	6.3	U	50	6.3	ug/L			09/27/23 17:10	10
Bromomethane	14	U	50	14	ug/L			09/27/23 17:10	10
Carbon disulfide	7.8	U	50	7.8	ug/L			09/27/23 17:10	10
Carbon tetrachloride	9.0	U	50	9.0	ug/L			09/27/23 17:10	10
Chlorobenzene	4.6	U	10	4.6	ug/L			09/27/23 17:10	10
Chloroethane	20	U	100	20	ug/L			09/27/23 17:10	10
Chloroform	4.6	U	10	4.6	ug/L			09/27/23 17:10	10
Chloromethane	20	U	100	20	ug/L			09/27/23 17:10	10
cis-1,2-Dichloroethene	**1200**		10	4.6	ug/L			09/27/23 17:10	10
cis-1,3-Dichloropropene	11	U	50	11	ug/L			09/27/23 17:10	10
Cyclohexane	13	U	50	13	ug/L			09/27/23 17:10	10
Dibromochloromethane	5.5	U	50	5.5	ug/L			09/27/23 17:10	10
Dichlorodifluoromethane	7.9	U	10	7.9	ug/L			09/27/23 17:10	10
Ethylbenzene	3.9	U	10	3.9	ug/L			09/27/23 17:10	10
Isopropylbenzene	5.9	U	10	5.9	ug/L			09/27/23 17:10	10

Client Sample ID: LC34-DPT0930-025.020230922

Lab Sample ID: 670-27359-16

Date Collected: 09/22/23 10:40
Matrix: Water
Date Received: 09/23/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylenes	12	U	100	12	ug/L			09/27/23 17:10	10
Methyl acetate	40	U	200	40	ug/L			09/27/23 17:10	10
Methyl tert-butyl ether	14	U	50	14	ug/L			09/27/23 17:10	10
Methylene Chloride	17	U	50	17	ug/L			09/27/23 17:10	10
o-Xylene	5.0	U	10	5.0	ug/L			09/27/23 17:10	10
Styrene	6.2	U	10	6.2	ug/L			09/27/23 17:10	10
Tetrachloroethene	6.6	U	10	6.6	ug/L			09/27/23 17:10	10
Toluene	4.8	U	10	4.8	ug/L			09/27/23 17:10	10
trans-1,2-Dichloroethene	**19**		10	3.7	ug/L			09/27/23 17:10	10
trans-1,3-Dichloropropene	13	U	50	13	ug/L			09/27/23 17:10	10
Trichloroethene	7.9	U	50	7.9	ug/L			09/27/23 17:10	10
Trichlorofluoromethane	5.6	U	10	5.6	ug/L			09/27/23 17:10	10
Vinyl chloride	**260**		20	4.3	ug/L			09/27/23 17:10	10
Xylenes, Total	12	U	100	12	ug/L			09/27/23 17:10	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*63 - 144*		*09/27/23 17:10*	*10*
4-Bromofluorobenzene (Surr)	*98*		*74 - 124*		*09/27/23 17:10*	*10*
Dibromofluoromethane (Surr)	*106*		*75 - 131*		*09/27/23 17:10*	*10*
Toluene-d8 (Surr)	*98*		*80 - 120*		*09/27/23 17:10*	*10*

Client Sample ID: LC34-DPT0930-034.0-20230922

Lab Sample ID: 670-27359-17

Date Collected: 09/22/23 11:00
Matrix: Water
Date Received: 09/23/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.59	U	5.0	0.59	ug/L			09/27/23 14:26	1
1,1,2,2-Tetrachloroethane	0.47	U	1.0	0.47	ug/L			09/27/23 14:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	10	1.1	ug/L			09/27/23 14:26	1
1,1,2-Trichloroethane	0.41	U	1.0	0.41	ug/L			09/27/23 14:26	1
1,1-Dichloroethane	0.64	U	1.0	0.64	ug/L			09/27/23 14:26	1
1,1-Dichloroethene	0.74	U	1.0	0.74	ug/L			09/27/23 14:26	1
1,2,4-Trichlorobenzene	1.8	U	5.0	1.8	ug/L			09/27/23 14:26	1
1,2-Dibromo-3-Chloropropane	0.67	U	5.0	0.67	ug/L			09/27/23 14:26	1
1,2-Dibromoethane (EDB)	1.0	U	5.0	1.0	ug/L			09/27/23 14:26	1
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			09/27/23 14:26	1
1,2-Dichloroethane	0.37	U	1.0	0.37	ug/L			09/27/23 14:26	1
1,2-Dichloropropane	0.56	U	5.0	0.56	ug/L			09/27/23 14:26	1
1,3-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			09/27/23 14:26	1
1,4-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			09/27/23 14:26	1
2-Butanone (MEK)	8.3	U	50	8.3	ug/L			09/27/23 14:26	1
2-Hexanone	7.4	U	50	7.4	ug/L			09/27/23 14:26	1
4-Methyl-2-pentanone	7.5	U	50	7.5	ug/L			09/27/23 14:26	1
Acetone	3.1	U	100	3.1	ug/L			09/27/23 14:26	1
Benzene	0.46	U	1.0	0.46	ug/L			09/27/23 14:26	1
Bromodichloromethane	0.55	U	1.0	0.55	ug/L			09/27/23 14:26	1
Bromoform	0.63	U	5.0	0.63	ug/L			09/27/23 14:26	1
Bromomethane	1.4	U	5.0	1.4	ug/L			09/27/23 14:26	1
Carbon disulfide	0.78	U	5.0	0.78	ug/L			09/27/23 14:26	1

Client Sample ID: LC34-DPT0930-034.0-20230922

Lab Sample ID: 670-27359-17

Date Collected: 09/22/23 11:00

Matrix: Water

Date Received: 09/23/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	0.90	U	5.0	0.90	ug/L			09/27/23 14:26	1
Chlorobenzene	0.46	U	1.0	0.46	ug/L			09/27/23 14:26	1
Chloroethane	2.0	U	10	2.0	ug/L			09/27/23 14:26	1
Chloroform	0.46	U	1.0	0.46	ug/L			09/27/23 14:26	1
Chloromethane	2.0	U	10	2.0	ug/L			09/27/23 14:26	1
cis-1,2-Dichloroethene	**3.2**		1.0	0.46	ug/L			09/27/23 14:26	1
cis-1,3-Dichloropropene	1.1	U	5.0	1.1	ug/L			09/27/23 14:26	1
Cyclohexane	1.3	U	5.0	1.3	ug/L			09/27/23 14:26	1
Dibromochloromethane	0.55	U	5.0	0.55	ug/L			09/27/23 14:26	1
Dichlorodifluoromethane	0.79	U	1.0	0.79	ug/L			09/27/23 14:26	1
Ethylbenzene	0.39	U	1.0	0.39	ug/L			09/27/23 14:26	1
Isopropylbenzene	0.59	U	1.0	0.59	ug/L			09/27/23 14:26	1
m,p-Xylenes	1.2	U	10	1.2	ug/L			09/27/23 14:26	1
Methyl acetate	4.0	U	20	4.0	ug/L			09/27/23 14:26	1
Methyl tert-butyl ether	1.4	U	5.0	1.4	ug/L			09/27/23 14:26	1
Methylene Chloride	1.7	U	5.0	1.7	ug/L			09/27/23 14:26	1
o-Xylene	0.50	U	1.0	0.50	ug/L			09/27/23 14:26	1
Styrene	0.62	U	1.0	0.62	ug/L			09/27/23 14:26	1
Tetrachloroethene	0.66	U	1.0	0.66	ug/L			09/27/23 14:26	1
Toluene	0.48	U	1.0	0.48	ug/L			09/27/23 14:26	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			09/27/23 14:26	1
trans-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			09/27/23 14:26	1
Trichloroethene	0.79	U	5.0	0.79	ug/L			09/27/23 14:26	1
Trichlorofluoromethane	0.56	U	1.0	0.56	ug/L			09/27/23 14:26	1
Vinyl chloride	**5.5**		2.0	0.43	ug/L			09/27/23 14:26	1
Xylenes, Total	1.2	U	10	1.2	ug/L			09/27/23 14:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*63 - 144*		*09/27/23 14:26*	*1*
4-Bromofluorobenzene (Surr)	*102*		*74 - 124*		*09/27/23 14:26*	*1*
Dibromofluoromethane (Surr)	*105*		*75 - 131*		*09/27/23 14:26*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*09/27/23 14:26*	*1*

Client Sample ID: LC34-DPT0930-038.0-20230922

Lab Sample ID: 670-27359-18

Date Collected: 09/22/23 11:25

Matrix: Water

Date Received: 09/23/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.59	U	5.0	0.59	ug/L			09/27/23 14:46	1
1,1,2,2-Tetrachloroethane	0.47	U	1.0	0.47	ug/L			09/27/23 14:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	10	1.1	ug/L			09/27/23 14:46	1
1,1,2-Trichloroethane	0.41	U	1.0	0.41	ug/L			09/27/23 14:46	1
1,1-Dichloroethane	0.64	U	1.0	0.64	ug/L			09/27/23 14:46	1
1,1-Dichloroethene	0.74	U	1.0	0.74	ug/L			09/27/23 14:46	1
1,2,4-Trichlorobenzene	1.8	U	5.0	1.8	ug/L			09/27/23 14:46	1
1,2-Dibromo-3-Chloropropane	0.67	U	5.0	0.67	ug/L			09/27/23 14:46	1
1,2-Dibromoethane (EDB)	1.0	U	5.0	1.0	ug/L			09/27/23 14:46	1
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			09/27/23 14:46	1
1,2-Dichloroethane	0.37	U	1.0	0.37	ug/L			09/27/23 14:46	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27359-1

Client Sample ID: LC34-DPT0930-038.0-20230922
Date Collected: 09/22/23 11:25
Date Received: 09/23/23 08:00

Lab Sample ID: 670-27359-18
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	0.56	U	5.0	0.56	ug/L			09/27/23 14:46	1
1,3-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			09/27/23 14:46	1
1,4-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			09/27/23 14:46	1
2-Butanone (MEK)	8.3	U	50	8.3	ug/L			09/27/23 14:46	1
2-Hexanone	7.4	U	50	7.4	ug/L			09/27/23 14:46	1
4-Methyl-2-pentanone	7.5	U	50	7.5	ug/L			09/27/23 14:46	1
Acetone	3.1	U	100	3.1	ug/L			09/27/23 14:46	1
Benzene	0.46	U	1.0	0.46	ug/L			09/27/23 14:46	1
Bromodichloromethane	0.55	U	1.0	0.55	ug/L			09/27/23 14:46	1
Bromoform	0.63	U	5.0	0.63	ug/L			09/27/23 14:46	1
Bromomethane	1.4	U	5.0	1.4	ug/L			09/27/23 14:46	1
Carbon disulfide	0.78	U	5.0	0.78	ug/L			09/27/23 14:46	1
Carbon tetrachloride	0.90	U	5.0	0.90	ug/L			09/27/23 14:46	1
Chlorobenzene	0.46	U	1.0	0.46	ug/L			09/27/23 14:46	1
Chloroethane	2.0	U	10	2.0	ug/L			09/27/23 14:46	1
Chloroform	0.46	U	1.0	0.46	ug/L			09/27/23 14:46	1
Chloromethane	2.0	U	10	2.0	ug/L			09/27/23 14:46	1
cis-1,2-Dichloroethene	**0.49**	**I**	1.0	0.46	ug/L			09/27/23 14:46	1
cis-1,3-Dichloropropene	1.1	U	5.0	1.1	ug/L			09/27/23 14:46	1
Cyclohexane	1.3	U	5.0	1.3	ug/L			09/27/23 14:46	1
Dibromochloromethane	0.55	U	5.0	0.55	ug/L			09/27/23 14:46	1
Dichlorodifluoromethane	0.79	U	1.0	0.79	ug/L			09/27/23 14:46	1
Ethylbenzene	0.39	U	1.0	0.39	ug/L			09/27/23 14:46	1
Isopropylbenzene	0.59	U	1.0	0.59	ug/L			09/27/23 14:46	1
m,p-Xylenes	1.2	U	10	1.2	ug/L			09/27/23 14:46	1
Methyl acetate	4.0	U	20	4.0	ug/L			09/27/23 14:46	1
Methyl tert-butyl ether	1.4	U	5.0	1.4	ug/L			09/27/23 14:46	1
Methylene Chloride	1.7	U	5.0	1.7	ug/L			09/27/23 14:46	1
o-Xylene	0.50	U	1.0	0.50	ug/L			09/27/23 14:46	1
Styrene	0.62	U	1.0	0.62	ug/L			09/27/23 14:46	1
Tetrachloroethene	0.66	U	1.0	0.66	ug/L			09/27/23 14:46	1
Toluene	0.48	U	1.0	0.48	ug/L			09/27/23 14:46	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			09/27/23 14:46	1
trans-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			09/27/23 14:46	1
Trichloroethene	0.79	U	5.0	0.79	ug/L			09/27/23 14:46	1
Trichlorofluoromethane	0.56	U	1.0	0.56	ug/L			09/27/23 14:46	1
Vinyl chloride	0.43	U	2.0	0.43	ug/L			09/27/23 14:46	1
Xylenes, Total	1.2	U	10	1.2	ug/L			09/27/23 14:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*63 - 144*		*09/27/23 14:46*	*1*
4-Bromofluorobenzene (Surr)	*101*		*74 - 124*		*09/27/23 14:46*	*1*
Dibromofluoromethane (Surr)	*108*		*75 - 131*		*09/27/23 14:46*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*09/27/23 14:46*	*1*

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27359-1

Client Sample ID: LC34-DPT0931-008.0-20230922
Date Collected: 09/22/23 12:15
Date Received: 09/23/23 08:00

Lab Sample ID: 670-27359-19
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.59	U	5.0	0.59	ug/L			09/27/23 15:07	1
1,1,2,2-Tetrachloroethane	0.47	U	1.0	0.47	ug/L			09/27/23 15:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	10	1.1	ug/L			09/27/23 15:07	1
1,1,2-Trichloroethane	0.41	U	1.0	0.41	ug/L			09/27/23 15:07	1
1,1-Dichloroethane	0.64	U	1.0	0.64	ug/L			09/27/23 15:07	1
1,1-Dichloroethene	0.74	U	1.0	0.74	ug/L			09/27/23 15:07	1
1,2,4-Trichlorobenzene	1.8	U	5.0	1.8	ug/L			09/27/23 15:07	1
1,2-Dibromo-3-Chloropropane	0.67	U	5.0	0.67	ug/L			09/27/23 15:07	1
1,2-Dibromoethane (EDB)	1.0	U	5.0	1.0	ug/L			09/27/23 15:07	1
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			09/27/23 15:07	1
1,2-Dichloroethane	0.37	U	1.0	0.37	ug/L			09/27/23 15:07	1
1,2-Dichloropropane	0.56	U	5.0	0.56	ug/L			09/27/23 15:07	1
1,3-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			09/27/23 15:07	1
1,4-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			09/27/23 15:07	1
2-Butanone (MEK)	8.3	U	50	8.3	ug/L			09/27/23 15:07	1
2-Hexanone	7.4	U	50	7.4	ug/L			09/27/23 15:07	1
4-Methyl-2-pentanone	7.5	U	50	7.5	ug/L			09/27/23 15:07	1
Acetone	3.1	U	100	3.1	ug/L			09/27/23 15:07	1
Benzene	0.46	U	1.0	0.46	ug/L			09/27/23 15:07	1
Bromodichloromethane	0.55	U	1.0	0.55	ug/L			09/27/23 15:07	1
Bromoform	0.63	U	5.0	0.63	ug/L			09/27/23 15:07	1
Bromomethane	1.4	U	5.0	1.4	ug/L			09/27/23 15:07	1
Carbon disulfide	0.78	U	5.0	0.78	ug/L			09/27/23 15:07	1
Carbon tetrachloride	0.90	U	5.0	0.90	ug/L			09/27/23 15:07	1
Chlorobenzene	0.46	U	1.0	0.46	ug/L			09/27/23 15:07	1
Chloroethane	2.0	U	10	2.0	ug/L			09/27/23 15:07	1
Chloroform	0.46	U	1.0	0.46	ug/L			09/27/23 15:07	1
Chloromethane	2.0	U	10	2.0	ug/L			09/27/23 15:07	1
cis-1,2-Dichloroethene	**35**		1.0	0.46	ug/L			09/27/23 15:07	1
cis-1,3-Dichloropropene	1.1	U	5.0	1.1	ug/L			09/27/23 15:07	1
Cyclohexane	1.3	U	5.0	1.3	ug/L			09/27/23 15:07	1
Dibromochloromethane	0.55	U	5.0	0.55	ug/L			09/27/23 15:07	1
Dichlorodifluoromethane	0.79	U	1.0	0.79	ug/L			09/27/23 15:07	1
Ethylbenzene	0.39	U	1.0	0.39	ug/L			09/27/23 15:07	1
Isopropylbenzene	0.59	U	1.0	0.59	ug/L			09/27/23 15:07	1
m,p-Xylenes	1.2	U	10	1.2	ug/L			09/27/23 15:07	1
Methyl acetate	4.0	U	20	4.0	ug/L			09/27/23 15:07	1
Methyl tert-butyl ether	1.4	U	5.0	1.4	ug/L			09/27/23 15:07	1
Methylene Chloride	1.7	U	5.0	1.7	ug/L			09/27/23 15:07	1
o-Xylene	0.50	U	1.0	0.50	ug/L			09/27/23 15:07	1
Styrene	0.62	U	1.0	0.62	ug/L			09/27/23 15:07	1
Tetrachloroethene	0.66	U	1.0	0.66	ug/L			09/27/23 15:07	1
Toluene	0.48	U	1.0	0.48	ug/L			09/27/23 15:07	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			09/27/23 15:07	1
trans-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			09/27/23 15:07	1
Trichloroethene	0.79	U	5.0	0.79	ug/L			09/27/23 15:07	1
Trichlorofluoromethane	0.56	U	1.0	0.56	ug/L			09/27/23 15:07	1
Vinyl chloride	**98**		2.0	0.43	ug/L			09/27/23 15:07	1
Xylenes, Total	1.2	U	10	1.2	ug/L			09/27/23 15:07	1

Client Sample ID: LC34-DPT0931-008.0-20230922

Lab Sample ID: 670-27359-19

Date Collected: 09/22/23 12:15

Matrix: Water

Date Received: 09/23/23 08:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*63 - 144*		*09/27/23 15:07*	*1*
4-Bromofluorobenzene (Surr)	*101*		*74 - 124*		*09/27/23 15:07*	*1*
Dibromofluoromethane (Surr)	*106*		*75 - 131*		*09/27/23 15:07*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*09/27/23 15:07*	*1*

Client Sample ID: LC34-DPT0931-013.0-20230922

Lab Sample ID: 670-27359-20

Date Collected: 09/22/23 12:30

Matrix: Water

Date Received: 09/23/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.59	U	5.0	0.59	ug/L			09/27/23 15:27	1
1,1,2,2-Tetrachloroethane	0.47	U	1.0	0.47	ug/L			09/27/23 15:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	10	1.1	ug/L			09/27/23 15:27	1
1,1,2-Trichloroethane	0.41	U	1.0	0.41	ug/L			09/27/23 15:27	1
1,1-Dichloroethane	0.64	U	1.0	0.64	ug/L			09/27/23 15:27	1
1,1-Dichloroethene	0.74	U	1.0	0.74	ug/L			09/27/23 15:27	1
1,2,4-Trichlorobenzene	1.8	U	5.0	1.8	ug/L			09/27/23 15:27	1
1,2-Dibromo-3-Chloropropane	0.67	U	5.0	0.67	ug/L			09/27/23 15:27	1
1,2-Dibromoethane (EDB)	1.0	U	5.0	1.0	ug/L			09/27/23 15:27	1
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			09/27/23 15:27	1
1,2-Dichloroethane	0.37	U	1.0	0.37	ug/L			09/27/23 15:27	1
1,2-Dichloropropane	0.56	U	5.0	0.56	ug/L			09/27/23 15:27	1
1,3-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			09/27/23 15:27	1
1,4-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			09/27/23 15:27	1
2-Butanone (MEK)	8.3	U	50	8.3	ug/L			09/27/23 15:27	1
2-Hexanone	7.4	U	50	7.4	ug/L			09/27/23 15:27	1
4-Methyl-2-pentanone	7.5	U	50	7.5	ug/L			09/27/23 15:27	1
Acetone	3.1	U	100	3.1	ug/L			09/27/23 15:27	1
Benzene	0.46	U	1.0	0.46	ug/L			09/27/23 15:27	1
Bromodichloromethane	0.55	U	1.0	0.55	ug/L			09/27/23 15:27	1
Bromoform	0.63	U	5.0	0.63	ug/L			09/27/23 15:27	1
Bromomethane	1.4	U	5.0	1.4	ug/L			09/27/23 15:27	1
Carbon disulfide	0.78	U	5.0	0.78	ug/L			09/27/23 15:27	1
Carbon tetrachloride	0.90	U	5.0	0.90	ug/L			09/27/23 15:27	1
Chlorobenzene	0.46	U	1.0	0.46	ug/L			09/27/23 15:27	1
Chloroethane	2.0	U	10	2.0	ug/L			09/27/23 15:27	1
Chloroform	0.46	U	1.0	0.46	ug/L			09/27/23 15:27	1
Chloromethane	2.0	U	10	2.0	ug/L			09/27/23 15:27	1
cis-1,2-Dichloroethene	**61**		1.0	0.46	ug/L			09/27/23 15:27	1
cis-1,3-Dichloropropene	1.1	U	5.0	1.1	ug/L			09/27/23 15:27	1
Cyclohexane	1.3	U	5.0	1.3	ug/L			09/27/23 15:27	1
Dibromochloromethane	0.55	U	5.0	0.55	ug/L			09/27/23 15:27	1
Dichlorodifluoromethane	0.79	U	1.0	0.79	ug/L			09/27/23 15:27	1
Ethylbenzene	0.39	U	1.0	0.39	ug/L			09/27/23 15:27	1
Isopropylbenzene	0.59	U	1.0	0.59	ug/L			09/27/23 15:27	1
m,p-Xylenes	1.2	U	10	1.2	ug/L			09/27/23 15:27	1
Methyl acetate	4.0	U	20	4.0	ug/L			09/27/23 15:27	1
Methyl tert-butyl ether	1.4	U	5.0	1.4	ug/L			09/27/23 15:27	1
Methylene Chloride	1.7	U	5.0	1.7	ug/L			09/27/23 15:27	1

Client Sample ID: LC34-DPT0931-013.0-20230922

Lab Sample ID: 670-27359-20

Date Collected: 09/22/23 12:30

Matrix: Water

Date Received: 09/23/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	0.50	U	1.0	0.50	ug/L			09/27/23 15:27	1
Styrene	0.62	U	1.0	0.62	ug/L			09/27/23 15:27	1
Tetrachloroethene	0.66	U	1.0	0.66	ug/L			09/27/23 15:27	1
Toluene	0.48	U	1.0	0.48	ug/L			09/27/23 15:27	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			09/27/23 15:27	1
trans-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			09/27/23 15:27	1
Trichloroethene	0.79	U	5.0	0.79	ug/L			09/27/23 15:27	1
Trichlorofluoromethane	0.56	U	1.0	0.56	ug/L			09/27/23 15:27	1
Xylenes, Total	1.2	U	10	1.2	ug/L			09/27/23 15:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*63 - 144*		*09/27/23 15:27*	*1*
4-Bromofluorobenzene (Surr)	*101*		*74 - 124*		*09/27/23 15:27*	*1*
Dibromofluoromethane (Surr)	*106*		*75 - 131*		*09/27/23 15:27*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*09/27/23 15:27*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	**140**		10	2.1	ug/L			09/28/23 16:57	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*63 - 144*		*09/28/23 16:57*	*5*
4-Bromofluorobenzene (Surr)	*99*		*74 - 124*		*09/28/23 16:57*	*5*
Dibromofluoromethane (Surr)	*101*		*75 - 131*		*09/28/23 16:57*	*5*
Toluene-d8 (Surr)	*97*		*80 - 120*		*09/28/23 16:57*	*5*

Client Sample ID: LC34-DPT0931-018.0-20230922

Lab Sample ID: 670-27359-21

Date Collected: 09/22/23 12:45

Matrix: Water

Date Received: 09/23/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.9	U	50	5.9	ug/L			09/27/23 17:36	10
1,1,2,2-Tetrachloroethane	4.7	U	10	4.7	ug/L			09/27/23 17:36	10
1,1,2-Trichloro-1,2,2-trifluoroethane	11	U	100	11	ug/L			09/27/23 17:36	10
1,1,2-Trichloroethane	4.1	U	10	4.1	ug/L			09/27/23 17:36	10
1,1-Dichloroethane	6.4	U	10	6.4	ug/L			09/27/23 17:36	10
1,1-Dichloroethene	7.4	U	10	7.4	ug/L			09/27/23 17:36	10
1,2,4-Trichlorobenzene	18	U	50	18	ug/L			09/27/23 17:36	10
1,2-Dibromo-3-Chloropropane	6.7	U	50	6.7	ug/L			09/27/23 17:36	10
1,2-Dibromoethane (EDB)	10	U	50	10	ug/L			09/27/23 17:36	10
1,2-Dichlorobenzene	4.3	U	10	4.3	ug/L			09/27/23 17:36	10
1,2-Dichloroethane	3.7	U	10	3.7	ug/L			09/27/23 17:36	10
1,2-Dichloropropane	5.6	U	50	5.6	ug/L			09/27/23 17:36	10
1,3-Dichlorobenzene	4.1	U	10	4.1	ug/L			09/27/23 17:36	10
1,4-Dichlorobenzene	4.5	U	10	4.5	ug/L			09/27/23 17:36	10
2-Butanone (MEK)	83	U	500	83	ug/L			09/27/23 17:36	10
2-Hexanone	74	U	500	74	ug/L			09/27/23 17:36	10
4-Methyl-2-pentanone	75	U	500	75	ug/L			09/27/23 17:36	10
Acetone	31	U	1000	31	ug/L			09/27/23 17:36	10
Benzene	4.6	U	10	4.6	ug/L			09/27/23 17:36	10

Client Sample ID: LC34-DPT0931-018.0-20230922

Lab Sample ID: 670-27359-21

Date Collected: 09/22/23 12:45

Matrix: Water

Date Received: 09/23/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	5.5	U	10	5.5	ug/L			09/27/23 17:36	10
Bromoform	6.3	U	50	6.3	ug/L			09/27/23 17:36	10
Bromomethane	14	U	50	14	ug/L			09/27/23 17:36	10
Carbon disulfide	7.8	U	50	7.8	ug/L			09/27/23 17:36	10
Carbon tetrachloride	9.0	U	50	9.0	ug/L			09/27/23 17:36	10
Chlorobenzene	4.6	U	10	4.6	ug/L			09/27/23 17:36	10
Chloroethane	20	U	100	20	ug/L			09/27/23 17:36	10
Chloroform	4.6	U	10	4.6	ug/L			09/27/23 17:36	10
Chloromethane	20	U	100	20	ug/L			09/27/23 17:36	10
cis-1,2-Dichloroethene	**1300**		10	4.6	ug/L			09/27/23 17:36	10
cis-1,3-Dichloropropene	11	U	50	11	ug/L			09/27/23 17:36	10
Cyclohexane	13	U	50	13	ug/L			09/27/23 17:36	10
Dibromochloromethane	5.5	U	50	5.5	ug/L			09/27/23 17:36	10
Dichlorodifluoromethane	7.9	U	10	7.9	ug/L			09/27/23 17:36	10
Ethylbenzene	3.9	U	10	3.9	ug/L			09/27/23 17:36	10
Isopropylbenzene	5.9	U	10	5.9	ug/L			09/27/23 17:36	10
m,p-Xylenes	12	U	100	12	ug/L			09/27/23 17:36	10
Methyl acetate	40	U	200	40	ug/L			09/27/23 17:36	10
Methyl tert-butyl ether	14	U	50	14	ug/L			09/27/23 17:36	10
Methylene Chloride	17	U	50	17	ug/L			09/27/23 17:36	10
o-Xylene	5.0	U	10	5.0	ug/L			09/27/23 17:36	10
Styrene	6.2	U	10	6.2	ug/L			09/27/23 17:36	10
Tetrachloroethene	6.6	U	10	6.6	ug/L			09/27/23 17:36	10
Toluene	4.8	U	10	4.8	ug/L			09/27/23 17:36	10
trans-1,2-Dichloroethene	**13**		10	3.7	ug/L			09/27/23 17:36	10
trans-1,3-Dichloropropene	13	U	50	13	ug/L			09/27/23 17:36	10
Trichloroethene	7.9	U	50	7.9	ug/L			09/27/23 17:36	10
Trichlorofluoromethane	5.6	U	10	5.6	ug/L			09/27/23 17:36	10
Vinyl chloride	**440**		20	4.3	ug/L			09/27/23 17:36	10
Xylenes, Total	12	U	100	12	ug/L			09/27/23 17:36	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*63 - 144*		*09/27/23 17:36*	*10*
4-Bromofluorobenzene (Surr)	*101*		*74 - 124*		*09/27/23 17:36*	*10*
Dibromofluoromethane (Surr)	*100*		*75 - 131*		*09/27/23 17:36*	*10*
Toluene-d8 (Surr)	*100*		*80 - 120*		*09/27/23 17:36*	*10*

Client Sample ID: LC34-DPT0931-025.0-20230922

Lab Sample ID: 670-27359-22

Date Collected: 09/22/23 13:05

Matrix: Water

Date Received: 09/23/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	15	U	130	15	ug/L			09/27/23 17:56	25
1,1,2,2-Tetrachloroethane	12	U	25	12	ug/L			09/27/23 17:56	25
1,1,2-Trichloro-1,2,2-trifluoroethane	28	U	250	28	ug/L			09/27/23 17:56	25
1,1,2-Trichloroethane	10	U	25	10	ug/L			09/27/23 17:56	25
1,1-Dichloroethane	16	U	25	16	ug/L			09/27/23 17:56	25
1,1-Dichloroethene	18	U	25	18	ug/L			09/27/23 17:56	25
1,2,4-Trichlorobenzene	44	U	130	44	ug/L			09/27/23 17:56	25

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27359-1

Client Sample ID: LC34-DPT0931-025.0-20230922
Date Collected: 09/22/23 13:05
Date Received: 09/23/23 08:00

Lab Sample ID: 670-27359-22
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	17	U	130	17	ug/L			09/27/23 17:56	25
1,2-Dibromoethane (EDB)	25	U	130	25	ug/L			09/27/23 17:56	25
1,2-Dichlorobenzene	11	U	25	11	ug/L			09/27/23 17:56	25
1,2-Dichloroethane	9.3	U	25	9.3	ug/L			09/27/23 17:56	25
1,2-Dichloropropane	14	U	130	14	ug/L			09/27/23 17:56	25
1,3-Dichlorobenzene	10	U	25	10	ug/L			09/27/23 17:56	25
1,4-Dichlorobenzene	11	U	25	11	ug/L			09/27/23 17:56	25
2-Butanone (MEK)	210	U	1300	210	ug/L			09/27/23 17:56	25
2-Hexanone	190	U	1300	190	ug/L			09/27/23 17:56	25
4-Methyl-2-pentanone	190	U	1300	190	ug/L			09/27/23 17:56	25
Acetone	77	U	2500	77	ug/L			09/27/23 17:56	25
Benzene	11	U	25	11	ug/L			09/27/23 17:56	25
Bromodichloromethane	14	U	25	14	ug/L			09/27/23 17:56	25
Bromoform	16	U	130	16	ug/L			09/27/23 17:56	25
Bromomethane	35	U	130	35	ug/L			09/27/23 17:56	25
Carbon disulfide	20	U	130	20	ug/L			09/27/23 17:56	25
Carbon tetrachloride	22	U	130	22	ug/L			09/27/23 17:56	25
Chlorobenzene	11	U	25	11	ug/L			09/27/23 17:56	25
Chloroethane	50	U	250	50	ug/L			09/27/23 17:56	25
Chloroform	12	U	25	12	ug/L			09/27/23 17:56	25
Chloromethane	51	U	250	51	ug/L			09/27/23 17:56	25
cis-1,2-Dichloroethene	**3100**		25	11	ug/L			09/27/23 17:56	25
cis-1,3-Dichloropropene	27	U	130	27	ug/L			09/27/23 17:56	25
Cyclohexane	32	U	130	32	ug/L			09/27/23 17:56	25
Dibromochloromethane	14	U	130	14	ug/L			09/27/23 17:56	25
Dichlorodifluoromethane	20	U	25	20	ug/L			09/27/23 17:56	25
Ethylbenzene	9.6	U	25	9.6	ug/L			09/27/23 17:56	25
Isopropylbenzene	15	U	25	15	ug/L			09/27/23 17:56	25
m,p-Xylenes	31	U	250	31	ug/L			09/27/23 17:56	25
Methyl acetate	100	U	500	100	ug/L			09/27/23 17:56	25
Methyl tert-butyl ether	35	U	130	35	ug/L			09/27/23 17:56	25
Methylene Chloride	43	U	130	43	ug/L			09/27/23 17:56	25
o-Xylene	13	U	25	13	ug/L			09/27/23 17:56	25
Styrene	15	U	25	15	ug/L			09/27/23 17:56	25
Tetrachloroethene	16	U	25	16	ug/L			09/27/23 17:56	25
Toluene	12	U	25	12	ug/L			09/27/23 17:56	25
trans-1,2-Dichloroethene	**42**		25	9.2	ug/L			09/27/23 17:56	25
trans-1,3-Dichloropropene	32	U	130	32	ug/L			09/27/23 17:56	25
Trichloroethene	20	U	130	20	ug/L			09/27/23 17:56	25
Trichlorofluoromethane	14	U	25	14	ug/L			09/27/23 17:56	25
Vinyl chloride	**680**		50	11	ug/L			09/27/23 17:56	25
Xylenes, Total	31	U	250	31	ug/L			09/27/23 17:56	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*63 - 144*		*09/27/23 17:56*	*25*
4-Bromofluorobenzene (Surr)	*99*		*74 - 124*		*09/27/23 17:56*	*25*
Dibromofluoromethane (Surr)	*99*		*75 - 131*		*09/27/23 17:56*	*25*
Toluene-d8 (Surr)	*100*		*80 - 120*		*09/27/23 17:56*	*25*

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27359-1

Client Sample ID: LC34-DPT0931-034.020230922
Date Collected: 09/22/23 13:25
Date Received: 09/23/23 08:00

Lab Sample ID: 670-27359-23
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.59	U	5.0	0.59	ug/L			09/27/23 16:14	1
1,1,2,2-Tetrachloroethane	0.47	U	1.0	0.47	ug/L			09/27/23 16:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	10	1.1	ug/L			09/27/23 16:14	1
1,1,2-Trichloroethane	0.41	U	1.0	0.41	ug/L			09/27/23 16:14	1
1,1-Dichloroethane	0.64	U	1.0	0.64	ug/L			09/27/23 16:14	1
1,1-Dichloroethene	0.74	U	1.0	0.74	ug/L			09/27/23 16:14	1
1,2,4-Trichlorobenzene	1.8	U	5.0	1.8	ug/L			09/27/23 16:14	1
1,2-Dibromo-3-Chloropropane	0.67	U	5.0	0.67	ug/L			09/27/23 16:14	1
1,2-Dibromoethane (EDB)	1.0	U	5.0	1.0	ug/L			09/27/23 16:14	1
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			09/27/23 16:14	1
1,2-Dichloroethane	0.37	U	1.0	0.37	ug/L			09/27/23 16:14	1
1,2-Dichloropropane	0.56	U	5.0	0.56	ug/L			09/27/23 16:14	1
1,3-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			09/27/23 16:14	1
1,4-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			09/27/23 16:14	1
2-Butanone (MEK)	8.3	U	50	8.3	ug/L			09/27/23 16:14	1
2-Hexanone	7.4	U	50	7.4	ug/L			09/27/23 16:14	1
4-Methyl-2-pentanone	7.5	U	50	7.5	ug/L			09/27/23 16:14	1
Acetone	3.1	U	100	3.1	ug/L			09/27/23 16:14	1
Benzene	0.46	U	1.0	0.46	ug/L			09/27/23 16:14	1
Bromodichloromethane	0.55	U	1.0	0.55	ug/L			09/27/23 16:14	1
Bromoform	0.63	U	5.0	0.63	ug/L			09/27/23 16:14	1
Bromomethane	1.4	U	5.0	1.4	ug/L			09/27/23 16:14	1
Carbon disulfide	0.78	U	5.0	0.78	ug/L			09/27/23 16:14	1
Carbon tetrachloride	0.90	U	5.0	0.90	ug/L			09/27/23 16:14	1
Chlorobenzene	0.46	U	1.0	0.46	ug/L			09/27/23 16:14	1
Chloroethane	2.0	U	10	2.0	ug/L			09/27/23 16:14	1
Chloroform	0.46	U	1.0	0.46	ug/L			09/27/23 16:14	1
Chloromethane	2.0	U	10	2.0	ug/L			09/27/23 16:14	1
cis-1,2-Dichloroethene	**0.92**	**I**	1.0	0.46	ug/L			09/27/23 16:14	1
cis-1,3-Dichloropropene	1.1	U	5.0	1.1	ug/L			09/27/23 16:14	1
Cyclohexane	1.3	U	5.0	1.3	ug/L			09/27/23 16:14	1
Dibromochloromethane	0.55	U	5.0	0.55	ug/L			09/27/23 16:14	1
Dichlorodifluoromethane	0.79	U	1.0	0.79	ug/L			09/27/23 16:14	1
Ethylbenzene	0.39	U	1.0	0.39	ug/L			09/27/23 16:14	1
Isopropylbenzene	0.59	U	1.0	0.59	ug/L			09/27/23 16:14	1
m,p-Xylenes	1.2	U	10	1.2	ug/L			09/27/23 16:14	1
Methyl acetate	4.0	U	20	4.0	ug/L			09/27/23 16:14	1
Methyl tert-butyl ether	1.4	U	5.0	1.4	ug/L			09/27/23 16:14	1
Methylene Chloride	1.7	U	5.0	1.7	ug/L			09/27/23 16:14	1
o-Xylene	0.50	U	1.0	0.50	ug/L			09/27/23 16:14	1
Styrene	0.62	U	1.0	0.62	ug/L			09/27/23 16:14	1
Tetrachloroethene	0.66	U	1.0	0.66	ug/L			09/27/23 16:14	1
Toluene	0.48	U	1.0	0.48	ug/L			09/27/23 16:14	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			09/27/23 16:14	1
trans-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			09/27/23 16:14	1
Trichloroethene	0.79	U	5.0	0.79	ug/L			09/27/23 16:14	1
Trichlorofluoromethane	0.56	U	1.0	0.56	ug/L			09/27/23 16:14	1
Vinyl chloride	**1.9**	**I**	2.0	0.43	ug/L			09/27/23 16:14	1
Xylenes, Total	1.2	U	10	1.2	ug/L			09/27/23 16:14	1

Client Sample ID: LC34-DPT0931-034.020230922

Lab Sample ID: 670-27359-23

Date Collected: 09/22/23 13:25

Matrix: Water

Date Received: 09/23/23 08:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*63 - 144*		*09/27/23 16:14*	*1*
4-Bromofluorobenzene (Surr)	*100*		*74 - 124*		*09/27/23 16:14*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 131*		*09/27/23 16:14*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*09/27/23 16:14*	*1*

Client Sample ID: LC34-DPT0931-038.0-20230922

Lab Sample ID: 670-27359-24

Date Collected: 09/22/23 13:45

Matrix: Water

Date Received: 09/23/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.59	U	5.0	0.59	ug/L			09/27/23 15:48	1
1,1,2,2-Tetrachloroethane	0.47	U	1.0	0.47	ug/L			09/27/23 15:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	10	1.1	ug/L			09/27/23 15:48	1
1,1,2-Trichloroethane	0.41	U	1.0	0.41	ug/L			09/27/23 15:48	1
1,1-Dichloroethane	0.64	U	1.0	0.64	ug/L			09/27/23 15:48	1
1,1-Dichloroethene	0.74	U	1.0	0.74	ug/L			09/27/23 15:48	1
1,2,4-Trichlorobenzene	1.8	U	5.0	1.8	ug/L			09/27/23 15:48	1
1,2-Dibromo-3-Chloropropane	0.67	U	5.0	0.67	ug/L			09/27/23 15:48	1
1,2-Dibromoethane (EDB)	1.0	U	5.0	1.0	ug/L			09/27/23 15:48	1
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			09/27/23 15:48	1
1,2-Dichloroethane	0.37	U	1.0	0.37	ug/L			09/27/23 15:48	1
1,2-Dichloropropane	0.56	U	5.0	0.56	ug/L			09/27/23 15:48	1
1,3-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			09/27/23 15:48	1
1,4-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			09/27/23 15:48	1
2-Butanone (MEK)	8.3	U	50	8.3	ug/L			09/27/23 15:48	1
2-Hexanone	7.4	U	50	7.4	ug/L			09/27/23 15:48	1
4-Methyl-2-pentanone	7.5	U	50	7.5	ug/L			09/27/23 15:48	1
Acetone	3.1	U	100	3.1	ug/L			09/27/23 15:48	1
Benzene	0.46	U	1.0	0.46	ug/L			09/27/23 15:48	1
Bromodichloromethane	0.55	U	1.0	0.55	ug/L			09/27/23 15:48	1
Bromoform	0.63	U	5.0	0.63	ug/L			09/27/23 15:48	1
Bromomethane	1.4	U	5.0	1.4	ug/L			09/27/23 15:48	1
Carbon disulfide	0.78	U	5.0	0.78	ug/L			09/27/23 15:48	1
Carbon tetrachloride	0.90	U	5.0	0.90	ug/L			09/27/23 15:48	1
Chlorobenzene	0.46	U	1.0	0.46	ug/L			09/27/23 15:48	1
Chloroethane	2.0	U	10	2.0	ug/L			09/27/23 15:48	1
Chloroform	0.46	U	1.0	0.46	ug/L			09/27/23 15:48	1
Chloromethane	2.0	U	10	2.0	ug/L			09/27/23 15:48	1
cis-1,2-Dichloroethene	0.46	U	1.0	0.46	ug/L			09/27/23 15:48	1
cis-1,3-Dichloropropene	1.1	U	5.0	1.1	ug/L			09/27/23 15:48	1
Cyclohexane	1.3	U	5.0	1.3	ug/L			09/27/23 15:48	1
Dibromochloromethane	0.55	U	5.0	0.55	ug/L			09/27/23 15:48	1
Dichlorodifluoromethane	0.79	U	1.0	0.79	ug/L			09/27/23 15:48	1
Ethylbenzene	0.39	U	1.0	0.39	ug/L			09/27/23 15:48	1
Isopropylbenzene	0.59	U	1.0	0.59	ug/L			09/27/23 15:48	1
m,p-Xylenes	1.2	U	10	1.2	ug/L			09/27/23 15:48	1
Methyl acetate	4.0	U	20	4.0	ug/L			09/27/23 15:48	1
Methyl tert-butyl ether	1.4	U	5.0	1.4	ug/L			09/27/23 15:48	1
Methylene Chloride	1.7	U	5.0	1.7	ug/L			09/27/23 15:48	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27359-1

Client Sample ID: LC34-DPT0931-038.0-20230922
Date Collected: 09/22/23 13:45
Date Received: 09/23/23 08:00

Lab Sample ID: 670-27359-24
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	0.50	U	1.0	0.50	ug/L			09/27/23 15:48	1
Styrene	0.62	U	1.0	0.62	ug/L			09/27/23 15:48	1
Tetrachloroethene	0.66	U	1.0	0.66	ug/L			09/27/23 15:48	1
Toluene	0.48	U	1.0	0.48	ug/L			09/27/23 15:48	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			09/27/23 15:48	1
trans-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			09/27/23 15:48	1
Trichloroethene	0.79	U	5.0	0.79	ug/L			09/27/23 15:48	1
Trichlorofluoromethane	0.56	U	1.0	0.56	ug/L			09/27/23 15:48	1
Vinyl chloride	0.43	U	2.0	0.43	ug/L			09/27/23 15:48	1
Xylenes, Total	1.2	U	10	1.2	ug/L			09/27/23 15:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*63 - 144*		*09/27/23 15:48*	*1*
4-Bromofluorobenzene (Surr)	*98*		*74 - 124*		*09/27/23 15:48*	*1*
Dibromofluoromethane (Surr)	*108*		*75 - 131*		*09/27/23 15:48*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*09/27/23 15:48*	*1*

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27359-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	DCA (63-144)	DCA (63-144)	BFB (74-124)	BFB (74-124)	DBFM (75-131)	DBFM (75-131)	TOL (80-120)	TOL (80-120)
670-27357-A-1 MS	Matrix Spike	94	94	98	98	98	98	99	99
670-27359-1	LC34-DPT0928-0008.0-20230921	107	107	101	101	104	104	100	100
670-27359-1 MS	LC34-DPT0928-0008.0-20230921	101	101	100	100	104	104	98	98
670-27359-2	LC34-DPT0928-013.0-20230921	107	107	102	102	104	104	101	101
670-27359-3	LC34-DPT0928-018.0-20230921	110	110	97	97	107	107	97	97
670-27359-4	LC34-DPT0928-025.0-20230921	108	108	103	103	103	103	101	101
670-27359-4 - DL	LC34-DPT0928-025.0-20230921	109	109	103	103	106	106	100	100
670-27359-5	LC34-DPT0928-0.34.0-20230921	110	110	100	100	106	106	101	101
670-27359-5 - RA	LC34-DPT0928-0.34.0-20230921	102	102	103	103	101	101	99	99
670-27359-6	LC34-DPT0928-038.0-20230921	109	109	97	97	108	108	96	96
670-27359-6 - RA	LC34-DPT0928-038.0-20230921	100	100	99	99	100	100	97	97
670-27359-6 MS	LC34-DPT0928-038.0-20230921	98	98	100	100	105	105	99	99
670-27359-7	LC34-DPT0929-008.0-20230922	108	108	101	101	105	105	98	98
670-27359-8	LC34-DPT0929-013.0-20230922	109	109	99	99	107	107	99	99
670-27359-9	LC34-DPT0929-018.0-20230922	109	109	102	102	104	104	99	99
670-27359-9 - DL	LC34-DPT0929-018.0-20230922	98	98	98	98	101	101	98	98
670-27359-10	LC34-DPT0929-025.0-20230922	109	109	99	99	105	105	99	99
670-27359-10 - DL	LC34-DPT0929-025.0-20230922	99	99	96	96	100	100	96	96
670-27359-11	LC34-DPT0929-034.0-20230922	109	109	101	101	106	106	100	100
670-27359-12	LC34-DPT0929-038.0-20230922	111	111	100	100	109	109	98	98
670-27359-13	LC34-DPT0930-008.0-20230922	109	109	102	102	106	106	100	100
670-27359-14	LC34-DPT0930-013.0-20230922	108	108	99	99	107	107	98	98
670-27359-15	LC34-DPT0930-018.0-20230922	100	100	99	99	100	100	100	100
670-27359-15 - DL	LC34-DPT0930-018.0-20230922	100	100	99	99	100	100	99	99
670-27359-16	LC34-DPT0930-025.020230922	110	110	98	98	106	106	98	98
670-27359-17	LC34-DPT0930-034.0-20230922	109	109	102	102	105	105	102	102
670-27359-18	LC34-DPT0930-038.0-20230922	111	111	101	101	108	108	99	99
670-27359-19	LC34-DPT0931-008.0-20230922	108	108	101	101	106	106	100	100
670-27359-20	LC34-DPT0931-013.0-20230922	111	111	101	101	106	106	99	99

Surrogate Summary

Client: Tetra Tech, Inc.
Job ID: 670-27359-1
Project/Site: NASA KSC LC34 DPT

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Matrix: Water
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)							
		DCA	DCA	BFB	BFB	DBFM	DBFM	TOL	TOL
Lab Sample ID	Client Sample ID	(63-144)	(63-144)	(74-124)	(74-124)	(75-131)	(75-131)	(80-120)	(80-120)
670-27359-20 - DL	LC34-DPT0931-013.0-20230922	100	100	99	99	101	101	97	97
670-27359-21	LC34-DPT0931-018.0-20230922	100	100	101	101	100	100	100	100
670-27359-22	LC34-DPT0931-025.0-20230922	99	99	99	99	99	99	100	100
670-27359-23	LC34-DPT0931-034.020230922	100	100	100	100	100	100	100	100
670-27359-24	LC34-DPT0931-038.0-20230922	109	109	98	98	108	108	98	98
880-33571-A-7 MS	Matrix Spike	102	102	99	99	104	104	96	96
880-33571-B-7 MSD	Matrix Spike Duplicate	102	102	100	100	103	103	97	97
LCS 860-123579/4	Lab Control Sample	96	96	98	98	100	100	99	99
LCS 860-123580/3	Lab Control Sample	102	102	103	103	104	104	99	99
LCS 860-123704/3	Lab Control Sample	102	102	103	103	103	103	99	99
LCS 860-123818/3	Lab Control Sample	97	97	98	98	103	103	97	97
LCSD 860-123579/5	Lab Control Sample Dup	94	94	98	98	99	99	99	99
LCSD 860-123580/4	Lab Control Sample Dup	100	100	103	103	103	103	101	101
LCSD 860-123704/4	Lab Control Sample Dup	102	102	99	99	102	102	97	97
LCSD 860-123818/4	Lab Control Sample Dup	97	97	101	101	103	103	98	98
MB 860-123579/13	Method Blank	99	99	99	99	100	100	100	100
MB 860-123580/9	Method Blank	109	109	103	103	106	106	99	99
MB 860-123704/10	Method Blank	110	110	102	102	106	106	100	100
MB 860-123818/10	Method Blank	101	101	101	101	101	101	98	98

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 860-123579/13
Matrix: Water
Analysis Batch: 123579

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.59	U	5.0	0.59	ug/L			09/27/23 10:59	1
1,1,2,2-Tetrachloroethane	0.47	U	1.0	0.47	ug/L			09/27/23 10:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	10	1.1	ug/L			09/27/23 10:59	1
1,1,2-Trichloroethane	0.41	U	1.0	0.41	ug/L			09/27/23 10:59	1
1,1-Dichloroethane	0.64	U	1.0	0.64	ug/L			09/27/23 10:59	1
1,1-Dichloroethene	0.74	U	1.0	0.74	ug/L			09/27/23 10:59	1
1,2,4-Trichlorobenzene	1.8	U	5.0	1.8	ug/L			09/27/23 10:59	1
1,2-Dibromo-3-Chloropropane	0.67	U	5.0	0.67	ug/L			09/27/23 10:59	1
1,2-Dibromoethane (EDB)	1.0	U	5.0	1.0	ug/L			09/27/23 10:59	1
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			09/27/23 10:59	1
1,2-Dichloroethane	0.37	U	1.0	0.37	ug/L			09/27/23 10:59	1
1,2-Dichloropropane	0.56	U	5.0	0.56	ug/L			09/27/23 10:59	1
1,3-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			09/27/23 10:59	1
1,4-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			09/27/23 10:59	1
2-Butanone (MEK)	8.3	U	50	8.3	ug/L			09/27/23 10:59	1
2-Hexanone	7.4	U	50	7.4	ug/L			09/27/23 10:59	1
4-Methyl-2-pentanone	7.5	U	50	7.5	ug/L			09/27/23 10:59	1
Acetone	3.1	U	100	3.1	ug/L			09/27/23 10:59	1
Benzene	0.46	U	1.0	0.46	ug/L			09/27/23 10:59	1
Bromodichloromethane	0.55	U	1.0	0.55	ug/L			09/27/23 10:59	1
Bromoform	0.63	U	5.0	0.63	ug/L			09/27/23 10:59	1
Bromomethane	1.4	U	5.0	1.4	ug/L			09/27/23 10:59	1
Carbon disulfide	0.78	U	5.0	0.78	ug/L			09/27/23 10:59	1
Carbon tetrachloride	0.90	U	5.0	0.90	ug/L			09/27/23 10:59	1
Chlorobenzene	0.46	U	1.0	0.46	ug/L			09/27/23 10:59	1
Chloroethane	2.0	U	10	2.0	ug/L			09/27/23 10:59	1
Chloroform	0.46	U	1.0	0.46	ug/L			09/27/23 10:59	1
Chloromethane	2.0	U	10	2.0	ug/L			09/27/23 10:59	1
cis-1,2-Dichloroethene	0.46	U	1.0	0.46	ug/L			09/27/23 10:59	1
cis-1,3-Dichloropropene	1.1	U	5.0	1.1	ug/L			09/27/23 10:59	1
Cyclohexane	1.3	U	5.0	1.3	ug/L			09/27/23 10:59	1
Dibromochloromethane	0.55	U	5.0	0.55	ug/L			09/27/23 10:59	1
Dichlorodifluoromethane	0.79	U	1.0	0.79	ug/L			09/27/23 10:59	1
Ethylbenzene	0.39	U	1.0	0.39	ug/L			09/27/23 10:59	1
Isopropylbenzene	0.59	U	1.0	0.59	ug/L			09/27/23 10:59	1
m,p-Xylenes	1.2	U	10	1.2	ug/L			09/27/23 10:59	1
Methyl acetate	4.0	U	20	4.0	ug/L			09/27/23 10:59	1
Methyl tert-butyl ether	1.4	U	5.0	1.4	ug/L			09/27/23 10:59	1
Methylene Chloride	1.7	U	5.0	1.7	ug/L			09/27/23 10:59	1
o-Xylene	0.50	U	1.0	0.50	ug/L			09/27/23 10:59	1
Styrene	0.62	U	1.0	0.62	ug/L			09/27/23 10:59	1
Tetrachloroethene	0.66	U	1.0	0.66	ug/L			09/27/23 10:59	1
Toluene	0.48	U	1.0	0.48	ug/L			09/27/23 10:59	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			09/27/23 10:59	1
trans-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			09/27/23 10:59	1
Trichloroethene	0.79	U	5.0	0.79	ug/L			09/27/23 10:59	1
Trichlorofluoromethane	0.56	U	1.0	0.56	ug/L			09/27/23 10:59	1
Vinyl chloride	0.43	U	2.0	0.43	ug/L			09/27/23 10:59	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 860-123579/13
Matrix: Water
Analysis Batch: 123579

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	1.2	U	10	1.2	ug/L			09/27/23 10:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*63 - 144*		*09/27/23 10:59*	*1*
4-Bromofluorobenzene (Surr)	*99*		*74 - 124*		*09/27/23 10:59*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 131*		*09/27/23 10:59*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*09/27/23 10:59*	*1*

Lab Sample ID: LCS 860-123579/4
Matrix: Water
Analysis Batch: 123579

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	48.7		ug/L		97	70 - 130
1,1,2,2-Tetrachloroethane	50.0	42.6		ug/L		85	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	49.4		ug/L		99	60 - 140
1,1,2-Trichloroethane	50.0	46.1		ug/L		92	70 - 130
1,1-Dichloroethane	50.0	45.2		ug/L		90	70 - 130
1,1-Dichloroethene	50.0	48.3		ug/L		97	50 - 150
1,2,4-Trichlorobenzene	50.0	48.5		ug/L		97	75 - 135
1,2-Dibromo-3-Chloropropane	50.0	43.5		ug/L		87	59 - 125
1,2-Dibromoethane (EDB)	50.0	47.5		ug/L		95	73 - 125
1,2-Dichlorobenzene	50.0	46.0		ug/L		92	75 - 125
1,2-Dichloroethane	50.0	46.7		ug/L		93	72 - 130
1,2-Dichloropropane	50.0	45.8		ug/L		92	74 - 125
1,3-Dichlorobenzene	50.0	46.6		ug/L		93	75 - 125
1,4-Dichlorobenzene	50.0	46.6		ug/L		93	75 - 125
2-Butanone (MEK)	250	206		ug/L		82	60 - 140
2-Hexanone	250	204		ug/L		82	60 - 140
4-Methyl-2-pentanone	250	208		ug/L		83	60 - 140
Acetone	250	214		ug/L		86	60 - 140
Benzene	50.0	46.9		ug/L		94	75 - 125
Bromodichloromethane	50.0	47.4		ug/L		95	75 - 125
Bromoform	50.0	48.7		ug/L		97	70 - 130
Bromomethane	50.0	50.9		ug/L		102	60 - 140
Carbon disulfide	50.0	46.4		ug/L		93	60 - 140
Carbon tetrachloride	50.0	47.7		ug/L		95	70 - 130
Chlorobenzene	50.0	46.6		ug/L		93	65 - 135
Chloroethane	50.0	38.8		ug/L		78	60 - 140
Chloroform	50.0	46.5		ug/L		93	70 - 121
Chloromethane	50.0	41.2		ug/L		82	60 - 140
cis-1,2-Dichloroethene	50.0	44.8		ug/L		90	75 - 125
cis-1,3-Dichloropropene	50.0	48.5		ug/L		97	74 - 125
Cyclohexane	50.0	48.1		ug/L		96	70 - 130
Dibromochloromethane	50.0	48.4		ug/L		97	73 - 125
Dichlorodifluoromethane	50.0	38.9		ug/L		78	50 - 150
Ethylbenzene	50.0	46.4		ug/L		93	75 - 125
Isopropylbenzene	50.0	47.5		ug/L		95	75 - 125

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-123579/4
Matrix: Water
Analysis Batch: 123579

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
m,p-Xylenes	50.0	46.7		ug/L		93	75 - 125
Methyl acetate	100	81.2		ug/L		81	60 - 140
Methyl tert-butyl ether	50.0	49.2		ug/L		98	65 - 135
Methylene Chloride	50.0	44.8		ug/L		90	71 - 125
o-Xylene	50.0	46.2		ug/L		92	75 - 125
Styrene	50.0	47.6		ug/L		95	75 - 125
Tetrachloroethene	50.0	49.9		ug/L		100	71 - 125
Toluene	50.0	46.8		ug/L		94	70 - 130
trans-1,2-Dichloroethene	50.0	51.3		ug/L		103	75 - 125
trans-1,3-Dichloropropene	50.0	48.6		ug/L		97	66 - 125
Trichloroethene	50.0	50.4		ug/L		101	75 - 135
Trichlorofluoromethane	50.0	54.3		ug/L		109	60 - 140
Vinyl chloride	50.0	41.1		ug/L		82	60 - 140
Xylenes, Total	100	92.9		ug/L		93	75 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*63 - 144*
4-Bromofluorobenzene (Surr)	*98*		*74 - 124*
Dibromofluoromethane (Surr)	*100*		*75 - 131*
Toluene-d8 (Surr)	*99*		*80 - 120*

Lab Sample ID: LCSD 860-123579/5
Matrix: Water
Analysis Batch: 123579

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	50.0	49.5		ug/L		99	70 - 130	2	25
1,1,2,2-Tetrachloroethane	50.0	45.3		ug/L		91	74 - 125	6	25
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	50.3		ug/L		101	60 - 140	2	25
1,1,2-Trichloroethane	50.0	48.3		ug/L		97	70 - 130	5	25
1,1-Dichloroethane	50.0	45.4		ug/L		91	70 - 130	0	25
1,1-Dichloroethene	50.0	48.5		ug/L		97	50 - 150	0	25
1,2,4-Trichlorobenzene	50.0	51.7		ug/L		103	75 - 135	6	25
1,2-Dibromo-3-Chloropropane	50.0	47.8		ug/L		96	59 - 125	9	25
1,2-Dibromoethane (EDB)	50.0	49.5		ug/L		99	73 - 125	4	25
1,2-Dichlorobenzene	50.0	47.9		ug/L		96	75 - 125	4	25
1,2-Dichloroethane	50.0	48.1		ug/L		96	72 - 130	3	25
1,2-Dichloropropane	50.0	46.9		ug/L		94	74 - 125	2	25
1,3-Dichlorobenzene	50.0	48.4		ug/L		97	75 - 125	4	25
1,4-Dichlorobenzene	50.0	48.0		ug/L		96	75 - 125	3	25
2-Butanone (MEK)	250	207		ug/L		83	60 - 140	0	25
2-Hexanone	250	222		ug/L		89	60 - 140	8	25
4-Methyl-2-pentanone	250	221		ug/L		88	60 - 140	6	25
Acetone	250	219		ug/L		88	60 - 140	2	25
Benzene	50.0	47.4		ug/L		95	75 - 125	1	25
Bromodichloromethane	50.0	48.5		ug/L		97	75 - 125	2	25
Bromoform	50.0	51.7		ug/L		103	70 - 130	6	25
Bromomethane	50.0	50.8		ug/L		102	60 - 140	0	25

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-123579/5
Matrix: Water
Analysis Batch: 123579

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon disulfide			50.0	46.5		ug/L		93	60 - 140	0	25
Carbon tetrachloride			50.0	48.1		ug/L		96	70 - 130	1	25
Chlorobenzene			50.0	48.2		ug/L		96	65 - 135	3	25
Chloroethane			50.0	38.1		ug/L		76	60 - 140	2	25
Chloroform			50.0	47.0		ug/L		94	70 - 121	1	25
Chloromethane			50.0	41.3		ug/L		83	60 - 140	0	25
cis-1,2-Dichloroethene			50.0	45.7		ug/L		91	75 - 125	2	25
cis-1,3-Dichloropropene			50.0	49.7		ug/L		99	74 - 125	2	25
Cyclohexane			50.0	49.3		ug/L		99	70 - 130	2	25
Dibromochloromethane			50.0	50.1		ug/L		100	73 - 125	3	25
Dichlorodifluoromethane			50.0	40.0		ug/L		80	50 - 150	3	25
Ethylbenzene			50.0	47.7		ug/L		95	75 - 125	3	25
Isopropylbenzene			50.0	49.2		ug/L		98	75 - 125	3	25
m,p-Xylenes			50.0	48.3		ug/L		97	75 - 125	4	25
Methyl acetate			100	88.0		ug/L		88	60 - 140	8	25
Methyl tert-butyl ether			50.0	50.8		ug/L		102	65 - 135	3	25
Methylene Chloride			50.0	45.4		ug/L		91	71 - 125	1	25
o-Xylene			50.0	47.6		ug/L		95	75 - 125	3	25
Styrene			50.0	48.9		ug/L		98	75 - 125	3	25
Tetrachloroethene			50.0	51.7		ug/L		103	71 - 125	3	25
Toluene			50.0	48.4		ug/L		97	70 - 130	3	25
trans-1,2-Dichloroethene			50.0	51.6		ug/L		103	75 - 125	1	25
trans-1,3-Dichloropropene			50.0	50.7		ug/L		101	66 - 125	4	25
Trichloroethene			50.0	51.6		ug/L		103	75 - 135	2	25
Trichlorofluoromethane			50.0	55.4		ug/L		111	60 - 140	2	25
Vinyl chloride			50.0	40.9		ug/L		82	60 - 140	1	25
Xylenes, Total			100	95.9		ug/L		96	75 - 125	3	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*63 - 144*
4-Bromofluorobenzene (Surr)	*98*		*74 - 124*
Dibromofluoromethane (Surr)	*99*		*75 - 131*
Toluene-d8 (Surr)	*99*		*80 - 120*

Lab Sample ID: 670-27357-A-1 MS
Matrix: Water
Analysis Batch: 123579

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.59	U	50.0	50.7		ug/L		101	75 - 125
1,1,2,2-Tetrachloroethane	0.47	U	50.0	44.9		ug/L		90	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	50.0	50.8		ug/L		102	60 - 140
1,1,2-Trichloroethane	0.41	U	50.0	48.4		ug/L		97	75 - 127
1,1-Dichloroethane	0.64	U	50.0	46.9		ug/L		94	72 - 125
1,1-Dichloroethene	0.74	U	50.0	49.3		ug/L		99	59 - 172
1,2,4-Trichlorobenzene	1.8	U	50.0	51.2		ug/L		102	75 - 135
1,2-Dibromo-3-Chloropropane	0.67	U	50.0	47.0		ug/L		94	59 - 125
1,2-Dibromoethane (EDB)	1.0	U	50.0	50.3		ug/L		101	73 - 125

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 670-27357-A-1 MS
Matrix: Water
Analysis Batch: 123579

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichlorobenzene	0.43	U	50.0	48.6		ug/L		97	75 - 125
1,2-Dichloroethane	0.37	U	50.0	48.8		ug/L		98	68 - 127
1,2-Dichloropropane	0.56	U	50.0	47.6		ug/L		95	74 - 125
1,3-Dichlorobenzene	0.41	U	50.0	49.1		ug/L		98	75 - 125
1,4-Dichlorobenzene	0.45	U	50.0	48.9		ug/L		98	75 - 125
2-Butanone (MEK)	8.3	U	250	202		ug/L		81	60 - 140
2-Hexanone	7.4	U	250	217		ug/L		87	60 - 140
4-Methyl-2-pentanone	7.5	U	250	220		ug/L		88	60 - 140
Acetone	9.7	I	250	212		ug/L		81	60 - 140
Benzene	0.46	U	50.0	48.9		ug/L		98	66 - 142
Bromodichloromethane	0.55	U	50.0	49.7		ug/L		99	75 - 125
Bromoform	0.63	U	50.0	51.3		ug/L		103	75 - 125
Bromomethane	1.4	U	50.0	50.9		ug/L		102	60 - 140
Carbon disulfide	0.78	U	50.0	46.5		ug/L		93	60 - 140
Carbon tetrachloride	0.90	U	50.0	49.1		ug/L		98	62 - 125
Chlorobenzene	0.46	U	50.0	49.0		ug/L		98	60 - 133
Chloroethane	2.0	U	50.0	37.9		ug/L		76	60 - 140
Chloroform	0.46	U	50.0	48.1		ug/L		96	70 - 130
Chloromethane	2.0	U	50.0	39.9		ug/L		80	60 - 140
cis-1,2-Dichloroethene	0.46	U	50.0	46.4		ug/L		93	75 - 125
cis-1,3-Dichloropropene	1.1	U	50.0	50.6		ug/L		101	74 - 125
Cyclohexane	1.3	U	50.0	49.8		ug/L		100	70 - 130
Dibromochloromethane	0.55	U	50.0	50.6		ug/L		101	73 - 125
Dichlorodifluoromethane	0.79	U	50.0	36.2		ug/L		72	70 - 130
Ethylbenzene	0.39	U	50.0	49.0		ug/L		98	75 - 125
Isopropylbenzene	0.59	U	50.0	50.1		ug/L		100	75 - 125
m,p-Xylenes	1.2	U	50.0	49.0		ug/L		98	75 - 125
Methyl acetate	4.0	U	100	86.7		ug/L		87	60 - 140
Methyl tert-butyl ether	1.4	U	50.0	50.9		ug/L		102	65 - 135
Methylene Chloride	1.7	U	50.0	45.9		ug/L		92	75 - 125
o-Xylene	0.50	U	50.0	48.6		ug/L		97	75 - 125
Styrene	0.62	U	50.0	49.8		ug/L		100	75 - 125
Tetrachloroethene	0.66	U	50.0	52.6		ug/L		105	71 - 125
Toluene	0.48	U	50.0	49.3		ug/L		99	59 - 139
trans-1,2-Dichloroethene	0.37	U	50.0	52.2		ug/L		104	75 - 125
trans-1,3-Dichloropropene	1.3	U	50.0	51.0		ug/L		102	66 - 125
Trichloroethene	0.79	U	50.0	53.0		ug/L		106	62 - 137
Trichlorofluoromethane	0.56	U	50.0	48.5		ug/L		97	60 - 140
Vinyl chloride	0.43	U	50.0	39.8		ug/L		80	60 - 140
Xylenes, Total	1.2	U	100	97.6		ug/L		98	75 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*63 - 144*
4-Bromofluorobenzene (Surr)	*98*		*74 - 124*
Dibromofluoromethane (Surr)	*98*		*75 - 131*
Toluene-d8 (Surr)	*99*		*80 - 120*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 860-123580/9
Matrix: Water
Analysis Batch: 123580

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.59	U	5.0	0.59	ug/L			09/27/23 10:20	1
1,1,2,2-Tetrachloroethane	0.47	U	1.0	0.47	ug/L			09/27/23 10:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	10	1.1	ug/L			09/27/23 10:20	1
1,1,2-Trichloroethane	0.41	U	1.0	0.41	ug/L			09/27/23 10:20	1
1,1-Dichloroethane	0.64	U	1.0	0.64	ug/L			09/27/23 10:20	1
1,1-Dichloroethene	0.74	U	1.0	0.74	ug/L			09/27/23 10:20	1
1,2,4-Trichlorobenzene	1.8	U	5.0	1.8	ug/L			09/27/23 10:20	1
1,2-Dibromo-3-Chloropropane	0.67	U	5.0	0.67	ug/L			09/27/23 10:20	1
1,2-Dibromoethane (EDB)	1.0	U	5.0	1.0	ug/L			09/27/23 10:20	1
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			09/27/23 10:20	1
1,2-Dichloroethane	0.37	U	1.0	0.37	ug/L			09/27/23 10:20	1
1,2-Dichloropropane	0.56	U	5.0	0.56	ug/L			09/27/23 10:20	1
1,3-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			09/27/23 10:20	1
1,4-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			09/27/23 10:20	1
2-Butanone (MEK)	8.3	U	50	8.3	ug/L			09/27/23 10:20	1
2-Hexanone	7.4	U	50	7.4	ug/L			09/27/23 10:20	1
4-Methyl-2-pentanone	7.5	U	50	7.5	ug/L			09/27/23 10:20	1
Acetone	3.1	U	100	3.1	ug/L			09/27/23 10:20	1
Benzene	0.46	U	1.0	0.46	ug/L			09/27/23 10:20	1
Bromodichloromethane	0.55	U	1.0	0.55	ug/L			09/27/23 10:20	1
Bromoform	0.63	U	5.0	0.63	ug/L			09/27/23 10:20	1
Bromomethane	1.4	U	5.0	1.4	ug/L			09/27/23 10:20	1
Carbon disulfide	0.78	U	5.0	0.78	ug/L			09/27/23 10:20	1
Carbon tetrachloride	0.90	U	5.0	0.90	ug/L			09/27/23 10:20	1
Chlorobenzene	0.46	U	1.0	0.46	ug/L			09/27/23 10:20	1
Chloroethane	2.0	U	10	2.0	ug/L			09/27/23 10:20	1
Chloroform	0.46	U	1.0	0.46	ug/L			09/27/23 10:20	1
Chloromethane	2.0	U	10	2.0	ug/L			09/27/23 10:20	1
cis-1,2-Dichloroethene	0.46	U	1.0	0.46	ug/L			09/27/23 10:20	1
cis-1,3-Dichloropropene	1.1	U	5.0	1.1	ug/L			09/27/23 10:20	1
Cyclohexane	1.3	U	5.0	1.3	ug/L			09/27/23 10:20	1
Dibromochloromethane	0.55	U	5.0	0.55	ug/L			09/27/23 10:20	1
Dichlorodifluoromethane	0.79	U	1.0	0.79	ug/L			09/27/23 10:20	1
Ethylbenzene	0.39	U	1.0	0.39	ug/L			09/27/23 10:20	1
Isopropylbenzene	0.59	U	1.0	0.59	ug/L			09/27/23 10:20	1
m,p-Xylenes	1.2	U	10	1.2	ug/L			09/27/23 10:20	1
Methyl acetate	4.0	U	20	4.0	ug/L			09/27/23 10:20	1
Methyl tert-butyl ether	1.4	U	5.0	1.4	ug/L			09/27/23 10:20	1
Methylene Chloride	1.7	U	5.0	1.7	ug/L			09/27/23 10:20	1
o-Xylene	0.50	U	1.0	0.50	ug/L			09/27/23 10:20	1
Styrene	0.62	U	1.0	0.62	ug/L			09/27/23 10:20	1
Tetrachloroethene	0.66	U	1.0	0.66	ug/L			09/27/23 10:20	1
Toluene	0.48	U	1.0	0.48	ug/L			09/27/23 10:20	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			09/27/23 10:20	1
trans-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			09/27/23 10:20	1
Trichloroethene	0.79	U	5.0	0.79	ug/L			09/27/23 10:20	1
Trichlorofluoromethane	0.56	U	1.0	0.56	ug/L			09/27/23 10:20	1
Vinyl chloride	0.43	U	2.0	0.43	ug/L			09/27/23 10:20	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 860-123580/9
Matrix: Water
Analysis Batch: 123580

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	1.2	U	10	1.2	ug/L			09/27/23 10:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*63 - 144*		*09/27/23 10:20*	*1*
4-Bromofluorobenzene (Surr)	*103*		*74 - 124*		*09/27/23 10:20*	*1*
Dibromofluoromethane (Surr)	*106*		*75 - 131*		*09/27/23 10:20*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*09/27/23 10:20*	*1*

Lab Sample ID: LCS 860-123580/3
Matrix: Water
Analysis Batch: 123580

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	51.3		ug/L		103	70 - 130
1,1,2,2-Tetrachloroethane	50.0	51.3		ug/L		103	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	49.3		ug/L		99	60 - 140
1,1,2-Trichloroethane	50.0	50.5		ug/L		101	70 - 130
1,1-Dichloroethane	50.0	54.4		ug/L		109	70 - 130
1,1-Dichloroethene	50.0	51.2		ug/L		102	50 - 150
1,2,4-Trichlorobenzene	50.0	51.4		ug/L		103	75 - 135
1,2-Dibromo-3-Chloropropane	50.0	51.5		ug/L		103	59 - 125
1,2-Dibromoethane (EDB)	50.0	50.7		ug/L		101	73 - 125
1,2-Dichlorobenzene	50.0	50.5		ug/L		101	75 - 125
1,2-Dichloroethane	50.0	51.5		ug/L		103	72 - 130
1,2-Dichloropropane	50.0	51.2		ug/L		102	74 - 125
1,3-Dichlorobenzene	50.0	50.2		ug/L		100	75 - 125
1,4-Dichlorobenzene	50.0	49.3		ug/L		99	75 - 125
2-Butanone (MEK)	250	304		ug/L		122	60 - 140
2-Hexanone	250	290		ug/L		116	60 - 140
4-Methyl-2-pentanone	250	287		ug/L		115	60 - 140
Acetone	250	292		ug/L		117	60 - 140
Benzene	50.0	50.5		ug/L		101	75 - 125
Bromodichloromethane	50.0	51.2		ug/L		102	75 - 125
Bromoform	50.0	50.0		ug/L		100	70 - 130
Bromomethane	50.0	48.4		ug/L		97	60 - 140
Carbon disulfide	50.0	50.1		ug/L		100	60 - 140
Carbon tetrachloride	50.0	51.8		ug/L		104	70 - 130
Chlorobenzene	50.0	49.6		ug/L		99	65 - 135
Chloroethane	50.0	52.3		ug/L		105	60 - 140
Chloroform	50.0	52.6		ug/L		105	70 - 121
Chloromethane	50.0	52.6		ug/L		105	60 - 140
cis-1,2-Dichloroethene	50.0	53.4		ug/L		107	75 - 125
cis-1,3-Dichloropropene	50.0	52.7		ug/L		105	74 - 125
Cyclohexane	50.0	48.8		ug/L		98	70 - 130
Dibromochloromethane	50.0	49.9		ug/L		100	73 - 125
Dichlorodifluoromethane	50.0	50.5		ug/L		101	50 - 150
Ethylbenzene	50.0	50.2		ug/L		100	75 - 125
Isopropylbenzene	50.0	51.2		ug/L		102	75 - 125

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-123580/3
Matrix: Water
Analysis Batch: 123580

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
m,p-Xylenes	50.0	51.0		ug/L		102	75 - 125
Methyl acetate	100	115		ug/L		115	60 - 140
Methyl tert-butyl ether	50.0	54.3		ug/L		109	65 - 135
Methylene Chloride	50.0	50.1		ug/L		100	71 - 125
o-Xylene	50.0	50.8		ug/L		102	75 - 125
Styrene	50.0	52.0		ug/L		104	75 - 125
Tetrachloroethene	50.0	49.1		ug/L		98	71 - 125
Toluene	50.0	49.3		ug/L		99	70 - 130
trans-1,2-Dichloroethene	50.0	52.2		ug/L		104	75 - 125
trans-1,3-Dichloropropene	50.0	50.6		ug/L		101	66 - 125
Trichloroethene	50.0	49.9		ug/L		100	75 - 135
Trichlorofluoromethane	50.0	53.9		ug/L		108	60 - 140
Vinyl chloride	50.0	54.1		ug/L		108	60 - 140
Xylenes, Total	100	102		ug/L		102	75 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*63 - 144*
4-Bromofluorobenzene (Surr)	*103*		*74 - 124*
Dibromofluoromethane (Surr)	*104*		*75 - 131*
Toluene-d8 (Surr)	*99*		*80 - 120*

Lab Sample ID: LCSD 860-123580/4
Matrix: Water
Analysis Batch: 123580

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	50.0	50.2		ug/L		100	70 - 130	2	25
1,1,2,2-Tetrachloroethane	50.0	52.7		ug/L		105	74 - 125	3	25
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	48.2		ug/L		96	60 - 140	2	25
1,1,2-Trichloroethane	50.0	51.1		ug/L		102	70 - 130	1	25
1,1-Dichloroethane	50.0	53.1		ug/L		106	70 - 130	2	25
1,1-Dichloroethene	50.0	49.7		ug/L		99	50 - 150	3	25
1,2,4-Trichlorobenzene	50.0	52.2		ug/L		104	75 - 135	2	25
1,2-Dibromo-3-Chloropropane	50.0	55.0		ug/L		110	59 - 125	7	25
1,2-Dibromoethane (EDB)	50.0	50.8		ug/L		102	73 - 125	0	25
1,2-Dichlorobenzene	50.0	52.1		ug/L		104	75 - 125	3	25
1,2-Dichloroethane	50.0	50.1		ug/L		100	72 - 130	3	25
1,2-Dichloropropane	50.0	50.2		ug/L		100	74 - 125	2	25
1,3-Dichlorobenzene	50.0	51.3		ug/L		103	75 - 125	2	25
1,4-Dichlorobenzene	50.0	51.1		ug/L		102	75 - 125	4	25
2-Butanone (MEK)	250	286		ug/L		114	60 - 140	6	25
2-Hexanone	250	289		ug/L		116	60 - 140	0	25
4-Methyl-2-pentanone	250	278		ug/L		111	60 - 140	3	25
Acetone	250	274		ug/L		110	60 - 140	6	25
Benzene	50.0	49.2		ug/L		98	75 - 125	3	25
Bromodichloromethane	50.0	49.7		ug/L		99	75 - 125	3	25
Bromoform	50.0	50.6		ug/L		101	70 - 130	1	25
Bromomethane	50.0	47.6		ug/L		95	60 - 140	2	25

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-123580/4
Matrix: Water
Analysis Batch: 123580

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon disulfide	50.0	49.1		ug/L		98	60 - 140	2	25
Carbon tetrachloride	50.0	50.2		ug/L		100	70 - 130	3	25
Chlorobenzene	50.0	49.9		ug/L		100	65 - 135	1	25
Chloroethane	50.0	51.7		ug/L		103	60 - 140	1	25
Chloroform	50.0	50.3		ug/L		101	70 - 121	5	25
Chloromethane	50.0	50.8		ug/L		102	60 - 140	3	25
cis-1,2-Dichloroethene	50.0	51.7		ug/L		103	75 - 125	3	25
cis-1,3-Dichloropropene	50.0	51.0		ug/L		102	74 - 125	3	25
Cyclohexane	50.0	47.9		ug/L		96	70 - 130	2	25
Dibromochloromethane	50.0	49.9		ug/L		100	73 - 125	0	25
Dichlorodifluoromethane	50.0	50.0		ug/L		100	50 - 150	1	25
Ethylbenzene	50.0	50.8		ug/L		102	75 - 125	1	25
Isopropylbenzene	50.0	51.5		ug/L		103	75 - 125	1	25
m,p-Xylenes	50.0	50.9		ug/L		102	75 - 125	0	25
Methyl acetate	100	110		ug/L		110	60 - 140	4	25
Methyl tert-butyl ether	50.0	53.2		ug/L		106	65 - 135	2	25
Methylene Chloride	50.0	49.0		ug/L		98	71 - 125	2	25
o-Xylene	50.0	51.0		ug/L		102	75 - 125	0	25
Styrene	50.0	52.5		ug/L		105	75 - 125	1	25
Tetrachloroethene	50.0	49.1		ug/L		98	71 - 125	0	25
Toluene	50.0	50.1		ug/L		100	70 - 130	2	25
trans-1,2-Dichloroethene	50.0	51.4		ug/L		103	75 - 125	2	25
trans-1,3-Dichloropropene	50.0	51.4		ug/L		103	66 - 125	2	25
Trichloroethene	50.0	48.4		ug/L		97	75 - 135	3	25
Trichlorofluoromethane	50.0	52.3		ug/L		105	60 - 140	3	25
Vinyl chloride	50.0	53.1		ug/L		106	60 - 140	2	25
Xylenes, Total	100	102		ug/L		102	75 - 125	0	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*63 - 144*
4-Bromofluorobenzene (Surr)	*103*		*74 - 124*
Dibromofluoromethane (Surr)	*103*		*75 - 131*
Toluene-d8 (Surr)	*101*		*80 - 120*

Lab Sample ID: 670-27359-1 MS
Matrix: Water
Analysis Batch: 123580

Client Sample ID: LC34-DPT0928-0008.0-20230921
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.59	U	50.0	55.8		ug/L		112	75 - 125
1,1,1-Trichloroethane	0.59	U	50.0	55.8		ug/L		112	75 - 125
1,1,2,2-Tetrachloroethane	0.47	U	50.0	49.6		ug/L		99	74 - 125
1,1,2,2-Tetrachloroethane	0.47	U	50.0	49.6		ug/L		99	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	50.0	54.3		ug/L		109	60 - 140
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	50.0	54.3		ug/L		109	60 - 140
1,1,2-Trichloroethane	0.41	U	50.0	52.2		ug/L		104	75 - 127
1,1,2-Trichloroethane	0.41	U	50.0	52.2		ug/L		104	75 - 127

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 670-27359-1 MS
Matrix: Water
Analysis Batch: 123580

Client Sample ID: LC34-DPT0928-0008.0-20230921
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethane	0.64	U	50.0	54.7		ug/L		109	72 - 125
1,1-Dichloroethane	0.64	U	50.0	54.7		ug/L		109	72 - 125
1,1-Dichloroethene	0.74	U	50.0	55.5		ug/L		111	59 - 172
1,1-Dichloroethene	0.74	U	50.0	55.5		ug/L		111	59 - 172
1,2,4-Trichlorobenzene	1.8	U	50.0	52.1		ug/L		104	75 - 135
1,2,4-Trichlorobenzene	1.8	U	50.0	52.1		ug/L		104	75 - 135
1,2-Dibromo-3-Chloropropane	0.67	U	50.0	49.3		ug/L		99	59 - 125
1,2-Dibromo-3-Chloropropane	0.67	U	50.0	49.3		ug/L		99	59 - 125
1,2-Dibromoethane (EDB)	1.0	U	50.0	52.2		ug/L		104	73 - 125
1,2-Dibromoethane (EDB)	1.0	U	50.0	52.2		ug/L		104	73 - 125
1,2-Dichlorobenzene	0.43	U	50.0	50.5		ug/L		101	75 - 125
1,2-Dichlorobenzene	0.43	U	50.0	50.5		ug/L		101	75 - 125
1,2-Dichloroethane	0.37	U	50.0	54.0		ug/L		108	68 - 127
1,2-Dichloroethane	0.37	U	50.0	54.0		ug/L		108	68 - 127
1,2-Dichloropropane	0.56	U	50.0	55.0		ug/L		110	74 - 125
1,2-Dichloropropane	0.56	U	50.0	55.0		ug/L		110	74 - 125
1,3-Dichlorobenzene	0.41	U	50.0	50.9		ug/L		102	75 - 125
1,3-Dichlorobenzene	0.41	U	50.0	50.9		ug/L		102	75 - 125
1,4-Dichlorobenzene	0.45	U	50.0	50.3		ug/L		101	75 - 125
1,4-Dichlorobenzene	0.45	U	50.0	50.3		ug/L		101	75 - 125
2-Butanone (MEK)	8.3	U	250	296		ug/L		119	60 - 140
2-Butanone (MEK)	8.3	U	250	296		ug/L		119	60 - 140
2-Hexanone	7.4	U	250	275		ug/L		110	60 - 140
2-Hexanone	7.4	U	250	275		ug/L		110	60 - 140
4-Methyl-2-pentanone	7.5	U	250	283		ug/L		113	60 - 140
4-Methyl-2-pentanone	7.5	U	250	283		ug/L		113	60 - 140
Acetone	3.1	U	250	278		ug/L		111	60 - 140
Acetone	3.1	U	250	278		ug/L		111	60 - 140
Benzene	0.46	U	50.0	53.5		ug/L		107	66 - 142
Benzene	0.46	U	50.0	53.5		ug/L		107	66 - 142
Bromodichloromethane	0.55	U	50.0	53.8		ug/L		108	75 - 125
Bromodichloromethane	0.55	U	50.0	53.8		ug/L		108	75 - 125
Bromoform	0.63	U	50.0	50.8		ug/L		102	75 - 125
Bromoform	0.63	U	50.0	50.8		ug/L		102	75 - 125
Bromomethane	1.4	U	50.0	47.2		ug/L		94	60 - 140
Bromomethane	1.4	U	50.0	47.2		ug/L		94	60 - 140
Carbon disulfide	0.78	U	50.0	53.5		ug/L		107	60 - 140
Carbon disulfide	0.78	U	50.0	53.5		ug/L		107	60 - 140
Carbon tetrachloride	0.90	U	50.0	55.1		ug/L		110	62 - 125
Carbon tetrachloride	0.90	U	50.0	55.1		ug/L		110	62 - 125
Chlorobenzene	0.46	U	50.0	52.0		ug/L		104	60 - 133
Chlorobenzene	0.46	U	50.0	52.0		ug/L		104	60 - 133
Chloroethane	2.0	U	50.0	51.0		ug/L		102	60 - 140
Chloroethane	2.0	U	50.0	51.0		ug/L		102	60 - 140
Chloroform	0.46	U	50.0	55.4		ug/L		111	70 - 130
Chloroform	0.46	U	50.0	55.4		ug/L		111	70 - 130
Chloromethane	2.0	U	50.0	46.4		ug/L		93	60 - 140
Chloromethane	2.0	U	50.0	46.4		ug/L		93	60 - 140
cis-1,2-Dichloroethene	12		50.0	68.8		ug/L		114	75 - 125

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 670-27359-1 MS
Matrix: Water
Analysis Batch: 123580

Client Sample ID: LC34-DPT0928-0008.0-20230921
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
cis-1,2-Dichloroethene	12		50.0	68.8		ug/L		114	75 - 125
cis-1,3-Dichloropropene	1.1	U	50.0	55.0		ug/L		110	74 - 125
cis-1,3-Dichloropropene	1.1	U	50.0	55.0		ug/L		110	74 - 125
Cyclohexane	1.3	U	50.0	54.7		ug/L		109	70 - 130
Cyclohexane	1.3	U	50.0	54.7		ug/L		109	70 - 130
Dibromochloromethane	0.55	U	50.0	51.6		ug/L		103	73 - 125
Dibromochloromethane	0.55	U	50.0	51.6		ug/L		103	73 - 125
Dichlorodifluoromethane	0.79	U	50.0	41.4		ug/L		83	70 - 130
Dichlorodifluoromethane	0.79	U	50.0	41.4		ug/L		83	70 - 130
Ethylbenzene	0.39	U	50.0	53.4		ug/L		107	75 - 125
Ethylbenzene	0.39	U	50.0	53.4		ug/L		107	75 - 125
Isopropylbenzene	0.59	U	50.0	54.8		ug/L		110	75 - 125
Isopropylbenzene	0.59	U	50.0	54.8		ug/L		110	75 - 125
m,p-Xylenes	1.2	U	50.0	53.9		ug/L		108	75 - 125
m,p-Xylenes	1.2	U	50.0	53.9		ug/L		108	75 - 125
Methyl acetate	4.0	U	100	111		ug/L		111	60 - 140
Methyl acetate	4.0	U	100	111		ug/L		111	60 - 140
Methyl tert-butyl ether	1.4	U	50.0	56.0		ug/L		112	65 - 135
Methyl tert-butyl ether	1.4	U	50.0	56.0		ug/L		112	65 - 135
Methylene Chloride	1.7	U	50.0	53.3		ug/L		107	75 - 125
Methylene Chloride	1.7	U	50.0	53.3		ug/L		107	75 - 125
o-Xylene	0.50	U	50.0	53.5		ug/L		107	75 - 125
o-Xylene	0.50	U	50.0	53.5		ug/L		107	75 - 125
Styrene	0.62	U	50.0	54.8		ug/L		110	75 - 125
Styrene	0.62	U	50.0	54.8		ug/L		110	75 - 125
Tetrachloroethene	0.66	U	50.0	52.1		ug/L		104	71 - 125
Tetrachloroethene	0.66	U	50.0	52.1		ug/L		104	71 - 125
Toluene	0.48	U	50.0	52.4		ug/L		105	59 - 139
Toluene	0.48	U	50.0	52.4		ug/L		105	59 - 139
trans-1,2-Dichloroethene	0.37	U	50.0	57.0		ug/L		114	75 - 125
trans-1,2-Dichloroethene	0.37	U	50.0	57.0		ug/L		114	75 - 125
trans-1,3-Dichloropropene	1.3	U	50.0	53.5		ug/L		107	66 - 125
trans-1,3-Dichloropropene	1.3	U	50.0	53.5		ug/L		107	66 - 125
Trichloroethene	0.79	U	50.0	53.1		ug/L		106	62 - 137
Trichloroethene	0.79	U	50.0	53.1		ug/L		106	62 - 137
Trichlorofluoromethane	0.56	U	50.0	53.0		ug/L		106	60 - 140
Trichlorofluoromethane	0.56	U	50.0	53.0		ug/L		106	60 - 140
Vinyl chloride	22		50.0	73.0		ug/L		103	60 - 140
Vinyl chloride	22		50.0	73.0		ug/L		103	60 - 140
Xylenes, Total	1.2	U	100	107		ug/L		107	75 - 125
Xylenes, Total	1.2	U	100	107		ug/L		107	75 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*63 - 144*
1,2-Dichloroethane-d4 (Surr)	*101*		*63 - 144*
4-Bromofluorobenzene (Surr)	*100*		*74 - 124*
4-Bromofluorobenzene (Surr)	*100*		*74 - 124*
Dibromofluoromethane (Surr)	*104*		*75 - 131*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 670-27359-1 MS
Matrix: Water
Analysis Batch: 123580

Client Sample ID: LC34-DPT0928-0008.0-20230921
Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
Dibromofluoromethane (Surr)	*104*		*75 - 131*
Toluene-d8 (Surr)	*98*		*80 - 120*
Toluene-d8 (Surr)	*98*		*80 - 120*

Lab Sample ID: MB 860-123704/10
Matrix: Water
Analysis Batch: 123704

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.59	U	5.0	0.59	ug/L			09/27/23 21:57	1
1,1,2,2-Tetrachloroethane	0.47	U	1.0	0.47	ug/L			09/27/23 21:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	10	1.1	ug/L			09/27/23 21:57	1
1,1,2-Trichloroethane	0.41	U	1.0	0.41	ug/L			09/27/23 21:57	1
1,1-Dichloroethane	0.64	U	1.0	0.64	ug/L			09/27/23 21:57	1
1,1-Dichloroethene	0.74	U	1.0	0.74	ug/L			09/27/23 21:57	1
1,2,4-Trichlorobenzene	1.8	U	5.0	1.8	ug/L			09/27/23 21:57	1
1,2-Dibromo-3-Chloropropane	0.67	U	5.0	0.67	ug/L			09/27/23 21:57	1
1,2-Dibromoethane (EDB)	1.0	U	5.0	1.0	ug/L			09/27/23 21:57	1
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			09/27/23 21:57	1
1,2-Dichloroethane	0.37	U	1.0	0.37	ug/L			09/27/23 21:57	1
1,2-Dichloropropane	0.56	U	5.0	0.56	ug/L			09/27/23 21:57	1
1,3-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			09/27/23 21:57	1
1,4-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			09/27/23 21:57	1
2-Butanone (MEK)	8.3	U	50	8.3	ug/L			09/27/23 21:57	1
2-Hexanone	7.4	U	50	7.4	ug/L			09/27/23 21:57	1
4-Methyl-2-pentanone	7.5	U	50	7.5	ug/L			09/27/23 21:57	1
Acetone	3.1	U	100	3.1	ug/L			09/27/23 21:57	1
Benzene	0.46	U	1.0	0.46	ug/L			09/27/23 21:57	1
Bromodichloromethane	0.55	U	1.0	0.55	ug/L			09/27/23 21:57	1
Bromoform	0.63	U	5.0	0.63	ug/L			09/27/23 21:57	1
Bromomethane	1.4	U	5.0	1.4	ug/L			09/27/23 21:57	1
Carbon disulfide	0.78	U	5.0	0.78	ug/L			09/27/23 21:57	1
Carbon tetrachloride	0.90	U	5.0	0.90	ug/L			09/27/23 21:57	1
Chlorobenzene	0.46	U	1.0	0.46	ug/L			09/27/23 21:57	1
Chloroethane	2.0	U	10	2.0	ug/L			09/27/23 21:57	1
Chloroform	0.46	U	1.0	0.46	ug/L			09/27/23 21:57	1
Chloromethane	2.0	U	10	2.0	ug/L			09/27/23 21:57	1
cis-1,2-Dichloroethene	0.46	U	1.0	0.46	ug/L			09/27/23 21:57	1
cis-1,3-Dichloropropene	1.1	U	5.0	1.1	ug/L			09/27/23 21:57	1
Cyclohexane	1.3	U	5.0	1.3	ug/L			09/27/23 21:57	1
Dibromochloromethane	0.55	U	5.0	0.55	ug/L			09/27/23 21:57	1
Dichlorodifluoromethane	0.79	U	1.0	0.79	ug/L			09/27/23 21:57	1
Ethylbenzene	0.39	U	1.0	0.39	ug/L			09/27/23 21:57	1
Isopropylbenzene	0.59	U	1.0	0.59	ug/L			09/27/23 21:57	1
m,p-Xylenes	1.2	U	10	1.2	ug/L			09/27/23 21:57	1
Methyl acetate	4.0	U	20	4.0	ug/L			09/27/23 21:57	1
Methyl tert-butyl ether	1.4	U	5.0	1.4	ug/L			09/27/23 21:57	1
Methylene Chloride	1.7	U	5.0	1.7	ug/L			09/27/23 21:57	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 860-123704/10
Matrix: Water
Analysis Batch: 123704

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	0.50	U	1.0	0.50	ug/L			09/27/23 21:57	1
Styrene	0.62	U	1.0	0.62	ug/L			09/27/23 21:57	1
Tetrachloroethene	0.66	U	1.0	0.66	ug/L			09/27/23 21:57	1
Toluene	0.48	U	1.0	0.48	ug/L			09/27/23 21:57	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			09/27/23 21:57	1
trans-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			09/27/23 21:57	1
Trichloroethene	0.79	U	5.0	0.79	ug/L			09/27/23 21:57	1
Trichlorofluoromethane	0.56	U	1.0	0.56	ug/L			09/27/23 21:57	1
Vinyl chloride	0.43	U	2.0	0.43	ug/L			09/27/23 21:57	1
Xylenes, Total	1.2	U	10	1.2	ug/L			09/27/23 21:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*63 - 144*		*09/27/23 21:57*	*1*
4-Bromofluorobenzene (Surr)	*102*		*74 - 124*		*09/27/23 21:57*	*1*
Dibromofluoromethane (Surr)	*106*		*75 - 131*		*09/27/23 21:57*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*09/27/23 21:57*	*1*

Lab Sample ID: LCS 860-123704/3
Matrix: Water
Analysis Batch: 123704

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	52.3		ug/L		105	70 - 130
1,1,2,2-Tetrachloroethane	50.0	55.0		ug/L		110	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	46.4		ug/L		93	60 - 140
1,1,2-Trichloroethane	50.0	53.7		ug/L		107	70 - 130
1,1-Dichloroethane	50.0	54.3		ug/L		109	70 - 130
1,1-Dichloroethene	50.0	52.8		ug/L		106	50 - 150
1,2,4-Trichlorobenzene	50.0	53.9		ug/L		108	75 - 135
1,2-Dibromo-3-Chloropropane	50.0	55.9		ug/L		112	59 - 125
1,2-Dibromoethane (EDB)	50.0	53.2		ug/L		106	73 - 125
1,2-Dichlorobenzene	50.0	53.2		ug/L		106	75 - 125
1,2-Dichloroethane	50.0	54.9		ug/L		110	72 - 130
1,2-Dichloropropane	50.0	54.2		ug/L		108	74 - 125
1,3-Dichlorobenzene	50.0	53.0		ug/L		106	75 - 125
1,4-Dichlorobenzene	50.0	52.4		ug/L		105	75 - 125
2-Butanone (MEK)	250	313		ug/L		125	60 - 140
2-Hexanone	250	306		ug/L		123	60 - 140
4-Methyl-2-pentanone	250	306		ug/L		122	60 - 140
Acetone	250	304		ug/L		122	60 - 140
Benzene	50.0	52.9		ug/L		106	75 - 125
Bromodichloromethane	50.0	53.5		ug/L		107	75 - 125
Bromoform	50.0	52.4		ug/L		105	70 - 130
Bromomethane	50.0	51.6		ug/L		103	60 - 140
Carbon disulfide	50.0	51.4		ug/L		103	60 - 140
Carbon tetrachloride	50.0	51.6		ug/L		103	70 - 130
Chlorobenzene	50.0	52.2		ug/L		104	65 - 135
Chloroethane	50.0	55.4		ug/L		111	60 - 140

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-123704/3
Matrix: Water
Analysis Batch: 123704

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloroform	50.0	54.6		ug/L		109	70 - 121
Chloromethane	50.0	56.0		ug/L		112	60 - 140
cis-1,2-Dichloroethene	50.0	55.2		ug/L		110	75 - 125
cis-1,3-Dichloropropene	50.0	54.1		ug/L		108	74 - 125
Cyclohexane	50.0	46.6		ug/L		93	70 - 130
Dibromochloromethane	50.0	52.8		ug/L		106	73 - 125
Dichlorodifluoromethane	50.0	45.0		ug/L		90	50 - 150
Ethylbenzene	50.0	53.0		ug/L		106	75 - 125
Isopropylbenzene	50.0	53.5		ug/L		107	75 - 125
m,p-Xylenes	50.0	53.2		ug/L		106	75 - 125
Methyl acetate	100	122		ug/L		122	60 - 140
Methyl tert-butyl ether	50.0	57.8		ug/L		116	65 - 135
Methylene Chloride	50.0	53.2		ug/L		106	71 - 125
o-Xylene	50.0	53.4		ug/L		107	75 - 125
Styrene	50.0	54.7		ug/L		109	75 - 125
Tetrachloroethene	50.0	49.8		ug/L		100	71 - 125
Toluene	50.0	52.0		ug/L		104	70 - 130
trans-1,2-Dichloroethene	50.0	53.7		ug/L		107	75 - 125
trans-1,3-Dichloropropene	50.0	53.5		ug/L		107	66 - 125
Trichloroethene	50.0	52.7		ug/L		105	75 - 135
Trichlorofluoromethane	50.0	51.5		ug/L		103	60 - 140
Vinyl chloride	50.0	55.7		ug/L		111	60 - 140
Xylenes, Total	100	107		ug/L		107	75 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*63 - 144*
4-Bromofluorobenzene (Surr)	*103*		*74 - 124*
Dibromofluoromethane (Surr)	*103*		*75 - 131*
Toluene-d8 (Surr)	*99*		*80 - 120*

Lab Sample ID: LCSD 860-123704/4
Matrix: Water
Analysis Batch: 123704

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	50.0	51.0		ug/L		102	70 - 130	3	25
1,1,2,2-Tetrachloroethane	50.0	50.3		ug/L		101	74 - 125	9	25
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	45.6		ug/L		91	60 - 140	2	25
1,1,2-Trichloroethane	50.0	51.4		ug/L		103	70 - 130	4	25
1,1-Dichloroethane	50.0	55.4		ug/L		111	70 - 130	2	25
1,1-Dichloroethene	50.0	48.7		ug/L		97	50 - 150	8	25
1,2,4-Trichlorobenzene	50.0	48.4		ug/L		97	75 - 135	11	25
1,2-Dibromo-3-Chloropropane	50.0	52.6		ug/L		105	59 - 125	6	25
1,2-Dibromoethane (EDB)	50.0	51.5		ug/L		103	73 - 125	3	25
1,2-Dichlorobenzene	50.0	47.6		ug/L		95	75 - 125	11	25
1,2-Dichloroethane	50.0	53.5		ug/L		107	72 - 130	3	25
1,2-Dichloropropane	50.0	52.4		ug/L		105	74 - 125	3	25
1,3-Dichlorobenzene	50.0	47.1		ug/L		94	75 - 125	12	25

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-123704/4
Matrix: Water
Analysis Batch: 123704

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dichlorobenzene			50.0	46.6		ug/L		93	75 - 125	12	25
2-Butanone (MEK)			250	314		ug/L		126	60 - 140	1	25
2-Hexanone			250	305		ug/L		122	60 - 140	0	25
4-Methyl-2-pentanone			250	308		ug/L		123	60 - 140	1	25
Acetone			250	310		ug/L		124	60 - 140	2	25
Benzene			50.0	51.0		ug/L		102	75 - 125	4	25
Bromodichloromethane			50.0	52.1		ug/L		104	75 - 125	3	25
Bromoform			50.0	51.0		ug/L		102	70 - 130	3	25
Bromomethane			50.0	48.9		ug/L		98	60 - 140	5	25
Carbon disulfide			50.0	49.1		ug/L		98	60 - 140	5	25
Carbon tetrachloride			50.0	50.6		ug/L		101	70 - 130	2	25
Chlorobenzene			50.0	49.3		ug/L		99	65 - 135	6	25
Chloroethane			50.0	53.6		ug/L		107	60 - 140	3	25
Chloroform			50.0	51.9		ug/L		104	70 - 121	5	25
Chloromethane			50.0	53.7		ug/L		107	60 - 140	4	25
cis-1,2-Dichloroethene			50.0	52.6		ug/L		105	75 - 125	5	25
cis-1,3-Dichloropropene			50.0	52.8		ug/L		106	74 - 125	2	25
Cyclohexane			50.0	46.4		ug/L		93	70 - 130	0	25
Dibromochloromethane			50.0	50.2		ug/L		100	73 - 125	5	25
Dichlorodifluoromethane			50.0	44.8		ug/L		90	50 - 150	1	25
Ethylbenzene			50.0	49.6		ug/L		99	75 - 125	7	25
Isopropylbenzene			50.0	50.7		ug/L		101	75 - 125	5	25
m,p-Xylenes			50.0	50.8		ug/L		102	75 - 125	4	25
Methyl acetate			100	121		ug/L		121	60 - 140	1	25
Methyl tert-butyl ether			50.0	56.7		ug/L		113	65 - 135	2	25
Methylene Chloride			50.0	50.4		ug/L		101	71 - 125	6	25
o-Xylene			50.0	50.3		ug/L		101	75 - 125	6	25
Styrene			50.0	52.1		ug/L		104	75 - 125	5	25
Tetrachloroethene			50.0	47.6		ug/L		95	71 - 125	4	25
Toluene			50.0	49.0		ug/L		98	70 - 130	6	25
trans-1,2-Dichloroethene			50.0	51.5		ug/L		103	75 - 125	4	25
trans-1,3-Dichloropropene			50.0	51.3		ug/L		103	66 - 125	4	25
Trichloroethene			50.0	50.4		ug/L		101	75 - 135	4	25
Trichlorofluoromethane			50.0	51.3		ug/L		103	60 - 140	0	25
Vinyl chloride			50.0	53.8		ug/L		108	60 - 140	3	25
Xylenes, Total			100	101		ug/L		101	75 - 125	5	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*63 - 144*
4-Bromofluorobenzene (Surr)	*99*		*74 - 124*
Dibromofluoromethane (Surr)	*102*		*75 - 131*
Toluene-d8 (Surr)	*97*		*80 - 120*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 880-33571-A-7 MS
Matrix: Water
Analysis Batch: 123704

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.59	U	50.0	51.5		ug/L		103	75 - 125
1,1,2,2-Tetrachloroethane	0.47	U	50.0	47.4		ug/L		95	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	50.0	46.6		ug/L		93	60 - 140
1,1,2-Trichloroethane	0.41	U	50.0	48.4		ug/L		97	75 - 127
1,1-Dichloroethane	0.64	U	50.0	54.8		ug/L		110	72 - 125
1,1-Dichloroethene	0.74	U	50.0	50.7		ug/L		101	59 - 172
1,2,4-Trichlorobenzene	1.8	U	50.0	46.9		ug/L		94	75 - 135
1,2-Dibromo-3-Chloropropane	0.67	U	50.0	48.3		ug/L		97	59 - 125
1,2-Dibromoethane (EDB)	1.0	U	50.0	48.3		ug/L		97	73 - 125
1,2-Dichlorobenzene	0.43	U	50.0	45.9		ug/L		92	75 - 125
1,2-Dichloroethane	0.37	U	50.0	51.0		ug/L		102	68 - 127
1,2-Dichloropropane	0.56	U	50.0	50.1		ug/L		100	74 - 125
1,3-Dichlorobenzene	0.41	U	50.0	45.7		ug/L		91	75 - 125
1,4-Dichlorobenzene	0.45	U	50.0	44.3		ug/L		89	75 - 125
2-Butanone (MEK)	8.3	U	250	300		ug/L		120	60 - 140
2-Hexanone	7.4	U	250	282		ug/L		113	60 - 140
4-Methyl-2-pentanone	7.5	U	250	288		ug/L		115	60 - 140
Acetone	3.1	U	250	285		ug/L		114	60 - 140
Benzene	0.46	U	50.0	49.8		ug/L		100	66 - 142
Bromodichloromethane	0.55	U	50.0	49.9		ug/L		100	75 - 125
Bromoform	0.63	U	50.0	47.5		ug/L		95	75 - 125
Bromomethane	1.4	U	50.0	46.0		ug/L		92	60 - 140
Carbon disulfide	0.78	U	50.0	49.0		ug/L		98	60 - 140
Carbon tetrachloride	0.90	U	50.0	50.3		ug/L		101	62 - 125
Chlorobenzene	0.46	U	50.0	47.4		ug/L		95	60 - 133
Chloroethane	2.0	U	50.0	49.8		ug/L		100	60 - 140
Chloroform	0.94	I	50.0	52.7		ug/L		104	70 - 130
Chloromethane	2.0	U	50.0	46.2		ug/L		92	60 - 140
cis-1,2-Dichloroethene	0.46	U	50.0	52.8		ug/L		106	75 - 125
cis-1,3-Dichloropropene	1.1	U	50.0	50.2		ug/L		100	74 - 125
Cyclohexane	1.3	U	50.0	46.6		ug/L		93	70 - 130
Dibromochloromethane	0.55	U	50.0	47.6		ug/L		95	73 - 125
Dichlorodifluoromethane	0.79	U	50.0	37.0		ug/L		74	70 - 130
Ethylbenzene	0.39	U	50.0	48.2		ug/L		96	75 - 125
Isopropylbenzene	0.59	U	50.0	49.2		ug/L		98	75 - 125
m,p-Xylenes	1.2	U	50.0	49.0		ug/L		98	75 - 125
Methyl acetate	4.0	U	100	108		ug/L		108	60 - 140
Methyl tert-butyl ether	1.4	U	50.0	55.8		ug/L		112	65 - 135
Methylene Chloride	1.7	U	50.0	49.0		ug/L		98	75 - 125
o-Xylene	0.50	U	50.0	48.6		ug/L		97	75 - 125
Styrene	0.62	U	50.0	45.4		ug/L		91	75 - 125
Tetrachloroethene	2.0		50.0	48.2		ug/L		92	71 - 125
Toluene	0.48	U	50.0	47.8		ug/L		96	59 - 139
trans-1,2-Dichloroethene	0.37	U	50.0	52.8		ug/L		106	75 - 125
trans-1,3-Dichloropropene	1.3	U	50.0	47.7		ug/L		95	66 - 125
Trichloroethene	0.80	I	50.0	49.3		ug/L		97	62 - 137
Trichlorofluoromethane	0.56	U	50.0	46.2		ug/L		92	60 - 140
Vinyl chloride	0.43	U	50.0	48.7		ug/L		97	60 - 140

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 880-33571-A-7 MS
Matrix: Water
Analysis Batch: 123704

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Xylenes, Total	1.2	U	100	97.6		ug/L		98	75 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*63 - 144*
4-Bromofluorobenzene (Surr)	*99*		*74 - 124*
Dibromofluoromethane (Surr)	*104*		*75 - 131*
Toluene-d8 (Surr)	*96*		*80 - 120*

Lab Sample ID: 880-33571-B-7 MSD
Matrix: Water
Analysis Batch: 123704

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	0.59	U	50.0	54.2		ug/L		108	75 - 125	5	25
1,1,2,2-Tetrachloroethane	0.47	U	50.0	51.9		ug/L		104	74 - 125	9	25
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	50.0	49.6		ug/L		99	60 - 140	6	25
1,1,2-Trichloroethane	0.41	U	50.0	52.7		ug/L		105	75 - 127	9	25
1,1-Dichloroethane	0.64	U	50.0	55.4		ug/L		111	72 - 125	1	25
1,1-Dichloroethene	0.74	U	50.0	52.9		ug/L		106	59 - 172	4	25
1,2,4-Trichlorobenzene	1.8	U	50.0	51.8		ug/L		104	75 - 135	10	25
1,2-Dibromo-3-Chloropropane	0.67	U	50.0	53.4		ug/L		107	59 - 125	10	25
1,2-Dibromoethane (EDB)	1.0	U	50.0	53.0		ug/L		106	73 - 125	9	25
1,2-Dichlorobenzene	0.43	U	50.0	50.3		ug/L		101	75 - 125	9	25
1,2-Dichloroethane	0.37	U	50.0	54.6		ug/L		109	68 - 127	7	25
1,2-Dichloropropane	0.56	U	50.0	54.4		ug/L		109	74 - 125	8	25
1,3-Dichlorobenzene	0.41	U	50.0	49.9		ug/L		100	75 - 125	9	25
1,4-Dichlorobenzene	0.45	U	50.0	49.3		ug/L		99	75 - 125	11	25
2-Butanone (MEK)	8.3	U	250	323		ug/L		129	60 - 140	7	25
2-Hexanone	7.4	U	250	307		ug/L		123	60 - 140	9	25
4-Methyl-2-pentanone	7.5	U	250	310		ug/L		124	60 - 140	7	25
Acetone	3.1	U	250	303		ug/L		121	60 - 140	6	25
Benzene	0.46	U	50.0	53.6		ug/L		107	66 - 142	7	25
Bromodichloromethane	0.55	U	50.0	54.1		ug/L		108	75 - 125	8	25
Bromoform	0.63	U	50.0	52.9		ug/L		106	75 - 125	11	25
Bromomethane	1.4	U	50.0	49.0		ug/L		98	60 - 140	6	25
Carbon disulfide	0.78	U	50.0	52.7		ug/L		105	60 - 140	7	25
Carbon tetrachloride	0.90	U	50.0	53.6		ug/L		107	62 - 125	6	25
Chlorobenzene	0.46	U	50.0	51.9		ug/L		104	60 - 133	9	25
Chloroethane	2.0	U	50.0	52.9		ug/L		106	60 - 140	6	25
Chloroform	0.94	I	50.0	56.1		ug/L		110	70 - 130	6	25
Chloromethane	2.0	U	50.0	50.5		ug/L		101	60 - 140	9	25
cis-1,2-Dichloroethene	0.46	U	50.0	55.9		ug/L		112	75 - 125	6	25
cis-1,3-Dichloropropene	1.1	U	50.0	53.2		ug/L		106	74 - 125	6	25
Cyclohexane	1.3	U	50.0	50.0		ug/L		100	70 - 130	7	25
Dibromochloromethane	0.55	U	50.0	51.5		ug/L		103	73 - 125	8	25
Dichlorodifluoromethane	0.79	U	50.0	40.2		ug/L		80	70 - 130	8	25
Ethylbenzene	0.39	U	50.0	53.2		ug/L		106	75 - 125	10	25
Isopropylbenzene	0.59	U	50.0	54.3		ug/L		109	75 - 125	10	25

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 880-33571-B-7 MSD
Matrix: Water
Analysis Batch: 123704

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m,p-Xylenes	1.2	U	50.0	54.0		ug/L		108	75 - 125	10	25
Methyl acetate	4.0	U	100	115		ug/L		115	60 - 140	7	25
Methyl tert-butyl ether	1.4	U	50.0	59.1		ug/L		118	65 - 135	6	25
Methylene Chloride	1.7	U	50.0	52.7		ug/L		105	75 - 125	7	25
o-Xylene	0.50	U	50.0	53.3		ug/L		107	75 - 125	9	25
Styrene	0.62	U	50.0	50.9		ug/L		102	75 - 125	11	25
Tetrachloroethene	2.0		50.0	52.6		ug/L		101	71 - 125	9	25
Toluene	0.48	U	50.0	52.2		ug/L		104	59 - 139	9	25
trans-1,2-Dichloroethene	0.37	U	50.0	56.6		ug/L		113	75 - 125	7	25
trans-1,3-Dichloropropene	1.3	U	50.0	52.4		ug/L		105	66 - 125	9	25
Trichloroethene	0.80	I	50.0	53.2		ug/L		105	62 - 137	8	25
Trichlorofluoromethane	0.56	U	50.0	51.6		ug/L		103	60 - 140	11	25
Vinyl chloride	0.43	U	50.0	52.1		ug/L		104	60 - 140	7	25
Xylenes, Total	1.2	U	100	107		ug/L		107	75 - 125	9	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*63 - 144*
4-Bromofluorobenzene (Surr)	*100*		*74 - 124*
Dibromofluoromethane (Surr)	*103*		*75 - 131*
Toluene-d8 (Surr)	*97*		*80 - 120*

Lab Sample ID: MB 860-123818/10
Matrix: Water
Analysis Batch: 123818

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.59	U	5.0	0.59	ug/L			09/28/23 13:01	1
1,1,2,2-Tetrachloroethane	0.47	U	1.0	0.47	ug/L			09/28/23 13:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	10	1.1	ug/L			09/28/23 13:01	1
1,1,2-Trichloroethane	0.41	U	1.0	0.41	ug/L			09/28/23 13:01	1
1,1-Dichloroethane	0.64	U	1.0	0.64	ug/L			09/28/23 13:01	1
1,1-Dichloroethene	0.74	U	1.0	0.74	ug/L			09/28/23 13:01	1
1,2,4-Trichlorobenzene	1.8	U	5.0	1.8	ug/L			09/28/23 13:01	1
1,2-Dibromo-3-Chloropropane	0.67	U	5.0	0.67	ug/L			09/28/23 13:01	1
1,2-Dibromoethane (EDB)	1.0	U	5.0	1.0	ug/L			09/28/23 13:01	1
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			09/28/23 13:01	1
1,2-Dichloroethane	0.37	U	1.0	0.37	ug/L			09/28/23 13:01	1
1,2-Dichloropropane	0.56	U	5.0	0.56	ug/L			09/28/23 13:01	1
1,3-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			09/28/23 13:01	1
1,4-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			09/28/23 13:01	1
2-Butanone (MEK)	8.3	U	50	8.3	ug/L			09/28/23 13:01	1
2-Hexanone	7.4	U	50	7.4	ug/L			09/28/23 13:01	1
4-Methyl-2-pentanone	7.5	U	50	7.5	ug/L			09/28/23 13:01	1
Acetone	3.1	U	100	3.1	ug/L			09/28/23 13:01	1
Benzene	0.46	U	1.0	0.46	ug/L			09/28/23 13:01	1
Bromodichloromethane	0.55	U	1.0	0.55	ug/L			09/28/23 13:01	1
Bromoform	0.63	U	5.0	0.63	ug/L			09/28/23 13:01	1
Bromomethane	1.4	U	5.0	1.4	ug/L			09/28/23 13:01	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 860-123818/10
Matrix: Water
Analysis Batch: 123818

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	0.78	U	5.0	0.78	ug/L			09/28/23 13:01	1
Carbon tetrachloride	0.90	U	5.0	0.90	ug/L			09/28/23 13:01	1
Chlorobenzene	0.46	U	1.0	0.46	ug/L			09/28/23 13:01	1
Chloroethane	2.0	U	10	2.0	ug/L			09/28/23 13:01	1
Chloroform	0.46	U	1.0	0.46	ug/L			09/28/23 13:01	1
Chloromethane	2.0	U	10	2.0	ug/L			09/28/23 13:01	1
cis-1,2-Dichloroethene	0.46	U	1.0	0.46	ug/L			09/28/23 13:01	1
cis-1,3-Dichloropropene	1.1	U	5.0	1.1	ug/L			09/28/23 13:01	1
Cyclohexane	1.3	U	5.0	1.3	ug/L			09/28/23 13:01	1
Dibromochloromethane	0.55	U	5.0	0.55	ug/L			09/28/23 13:01	1
Dichlorodifluoromethane	0.79	U	1.0	0.79	ug/L			09/28/23 13:01	1
Ethylbenzene	0.39	U	1.0	0.39	ug/L			09/28/23 13:01	1
Isopropylbenzene	0.59	U	1.0	0.59	ug/L			09/28/23 13:01	1
m,p-Xylenes	1.2	U	10	1.2	ug/L			09/28/23 13:01	1
Methyl acetate	4.0	U	20	4.0	ug/L			09/28/23 13:01	1
Methyl tert-butyl ether	1.4	U	5.0	1.4	ug/L			09/28/23 13:01	1
Methylene Chloride	1.7	U	5.0	1.7	ug/L			09/28/23 13:01	1
o-Xylene	0.50	U	1.0	0.50	ug/L			09/28/23 13:01	1
Styrene	0.62	U	1.0	0.62	ug/L			09/28/23 13:01	1
Tetrachloroethene	0.66	U	1.0	0.66	ug/L			09/28/23 13:01	1
Toluene	0.48	U	1.0	0.48	ug/L			09/28/23 13:01	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			09/28/23 13:01	1
trans-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			09/28/23 13:01	1
Trichloroethene	0.79	U	5.0	0.79	ug/L			09/28/23 13:01	1
Trichlorofluoromethane	0.56	U	1.0	0.56	ug/L			09/28/23 13:01	1
Vinyl chloride	0.43	U	2.0	0.43	ug/L			09/28/23 13:01	1
Xylenes, Total	1.2	U	10	1.2	ug/L			09/28/23 13:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*63 - 144*		*09/28/23 13:01*	*1*
4-Bromofluorobenzene (Surr)	*101*		*74 - 124*		*09/28/23 13:01*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 131*		*09/28/23 13:01*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*09/28/23 13:01*	*1*

Lab Sample ID: LCS 860-123818/3
Matrix: Water
Analysis Batch: 123818

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	58.9		ug/L		118	70 - 130
1,1,2,2-Tetrachloroethane	50.0	51.6		ug/L		103	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	53.5		ug/L		107	60 - 140
1,1,2-Trichloroethane	50.0	53.1		ug/L		106	70 - 130
1,1-Dichloroethane	50.0	58.3		ug/L		117	70 - 130
1,1-Dichloroethene	50.0	57.0		ug/L		114	50 - 150
1,2,4-Trichlorobenzene	50.0	49.3		ug/L		99	75 - 135
1,2-Dibromo-3-Chloropropane	50.0	48.5		ug/L		97	59 - 125
1,2-Dibromoethane (EDB)	50.0	54.8		ug/L		110	73 - 125

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-123818/3
Matrix: Water
Analysis Batch: 123818

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichlorobenzene	50.0	52.6		ug/L		105	75 - 125
1,2-Dichloroethane	50.0	56.2		ug/L		112	72 - 130
1,2-Dichloropropane	50.0	56.5		ug/L		113	74 - 125
1,3-Dichlorobenzene	50.0	53.2		ug/L		106	75 - 125
1,4-Dichlorobenzene	50.0	52.3		ug/L		105	75 - 125
2-Butanone (MEK)	250	275		ug/L		110	60 - 140
2-Hexanone	250	255		ug/L		102	60 - 140
4-Methyl-2-pentanone	250	265		ug/L		106	60 - 140
Acetone	250	252		ug/L		101	60 - 140
Benzene	50.0	55.2		ug/L		110	75 - 125
Bromodichloromethane	50.0	59.3		ug/L		119	75 - 125
Bromoform	50.0	52.7		ug/L		105	70 - 130
Bromomethane	50.0	53.8		ug/L		108	60 - 140
Carbon disulfide	50.0	54.7		ug/L		109	60 - 140
Carbon tetrachloride	50.0	60.8		ug/L		122	70 - 130
Chlorobenzene	50.0	54.0		ug/L		108	65 - 135
Chloroethane	50.0	51.9		ug/L		104	60 - 140
Chloroform	50.0	58.7		ug/L		117	70 - 121
Chloromethane	50.0	47.8		ug/L		96	60 - 140
cis-1,2-Dichloroethene	50.0	56.6		ug/L		113	75 - 125
cis-1,3-Dichloropropene	50.0	59.7		ug/L		119	74 - 125
Cyclohexane	50.0	53.4		ug/L		107	70 - 130
Dibromochloromethane	50.0	58.2		ug/L		116	73 - 125
Dichlorodifluoromethane	50.0	44.4		ug/L		89	50 - 150
Ethylbenzene	50.0	56.1		ug/L		112	75 - 125
Isopropylbenzene	50.0	58.2		ug/L		116	75 - 125
m,p-Xylenes	50.0	56.3		ug/L		113	75 - 125
Methyl acetate	100	106		ug/L		106	60 - 140
Methyl tert-butyl ether	50.0	53.2		ug/L		106	65 - 135
Methylene Chloride	50.0	54.5		ug/L		109	71 - 125
o-Xylene	50.0	55.4		ug/L		111	75 - 125
Styrene	50.0	56.6		ug/L		113	75 - 125
Tetrachloroethene	50.0	56.0		ug/L		112	71 - 125
Toluene	50.0	54.4		ug/L		109	70 - 130
trans-1,2-Dichloroethene	50.0	58.4		ug/L		117	75 - 125
trans-1,3-Dichloropropene	50.0	58.0		ug/L		116	66 - 125
Trichloroethene	50.0	57.1		ug/L		114	75 - 135
Trichlorofluoromethane	50.0	58.9		ug/L		118	60 - 140
Vinyl chloride	50.0	50.5		ug/L		101	60 - 140
Xylenes, Total	100	112		ug/L		112	75 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*63 - 144*
4-Bromofluorobenzene (Surr)	*98*		*74 - 124*
Dibromofluoromethane (Surr)	*103*		*75 - 131*
Toluene-d8 (Surr)	*97*		*80 - 120*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-123818/4
Matrix: Water
Analysis Batch: 123818

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane			50.0	54.4		ug/L		109	70 - 130	8	25
1,1,2,2-Tetrachloroethane			50.0	51.8		ug/L		104	74 - 125	0	25
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	49.2		ug/L		98	60 - 140	8	25
1,1,2-Trichloroethane			50.0	51.6		ug/L		103	70 - 130	3	25
1,1-Dichloroethane			50.0	54.8		ug/L		110	70 - 130	6	25
1,1-Dichloroethene			50.0	51.8		ug/L		104	50 - 150	10	25
1,2,4-Trichlorobenzene			50.0	46.5		ug/L		93	75 - 135	6	25
1,2-Dibromo-3-Chloropropane			50.0	49.1		ug/L		98	59 - 125	1	25
1,2-Dibromoethane (EDB)			50.0	52.9		ug/L		106	73 - 125	3	25
1,2-Dichlorobenzene			50.0	50.7		ug/L		101	75 - 125	4	25
1,2-Dichloroethane			50.0	53.5		ug/L		107	72 - 130	5	25
1,2-Dichloropropane			50.0	53.5		ug/L		107	74 - 125	5	25
1,3-Dichlorobenzene			50.0	51.1		ug/L		102	75 - 125	4	25
1,4-Dichlorobenzene			50.0	50.1		ug/L		100	75 - 125	4	25
2-Butanone (MEK)			250	267		ug/L		107	60 - 140	3	25
2-Hexanone			250	256		ug/L		102	60 - 140	0	25
4-Methyl-2-pentanone			250	262		ug/L		105	60 - 140	1	25
Acetone			250	251		ug/L		100	60 - 140	0	25
Benzene			50.0	51.9		ug/L		104	75 - 125	6	25
Bromodichloromethane			50.0	55.6		ug/L		111	75 - 125	7	25
Bromoform			50.0	51.5		ug/L		103	70 - 130	2	25
Bromomethane			50.0	49.3		ug/L		99	60 - 140	9	25
Carbon disulfide			50.0	50.2		ug/L		100	60 - 140	8	25
Carbon tetrachloride			50.0	55.6		ug/L		111	70 - 130	9	25
Chlorobenzene			50.0	51.2		ug/L		102	65 - 135	5	25
Chloroethane			50.0	47.9		ug/L		96	60 - 140	8	25
Chloroform			50.0	55.3		ug/L		111	70 - 121	6	25
Chloromethane			50.0	43.7		ug/L		87	60 - 140	9	25
cis-1,2-Dichloroethene			50.0	52.9		ug/L		106	75 - 125	7	25
cis-1,3-Dichloropropene			50.0	56.6		ug/L		113	74 - 125	5	25
Cyclohexane			50.0	48.3		ug/L		97	70 - 130	10	25
Dibromochloromethane			50.0	55.9		ug/L		112	73 - 125	4	25
Dichlorodifluoromethane			50.0	38.1		ug/L		76	50 - 150	15	25
Ethylbenzene			50.0	52.0		ug/L		104	75 - 125	8	25
Isopropylbenzene			50.0	54.1		ug/L		108	75 - 125	7	25
m,p-Xylenes			50.0	52.5		ug/L		105	75 - 125	7	25
Methyl acetate			100	104		ug/L		104	60 - 140	1	25
Methyl tert-butyl ether			50.0	51.2		ug/L		102	65 - 135	4	25
Methylene Chloride			50.0	50.9		ug/L		102	71 - 125	7	25
o-Xylene			50.0	52.2		ug/L		104	75 - 125	6	25
Styrene			50.0	52.5		ug/L		105	75 - 125	8	25
Tetrachloroethene			50.0	51.8		ug/L		104	71 - 125	8	25
Toluene			50.0	50.7		ug/L		101	70 - 130	7	25
trans-1,2-Dichloroethene			50.0	54.8		ug/L		110	75 - 125	6	25
trans-1,3-Dichloropropene			50.0	55.9		ug/L		112	66 - 125	4	25
Trichloroethene			50.0	53.3		ug/L		107	75 - 135	7	25
Trichlorofluoromethane			50.0	50.7		ug/L		101	60 - 140	15	25
Vinyl chloride			50.0	45.6		ug/L		91	60 - 140	10	25

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-123818/4
Matrix: Water
Analysis Batch: 123818

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Xylenes, Total			100	105		ug/L		105	75 - 125	6	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*63 - 144*
4-Bromofluorobenzene (Surr)	*101*		*74 - 124*
Dibromofluoromethane (Surr)	*103*		*75 - 131*
Toluene-d8 (Surr)	*98*		*80 - 120*

Lab Sample ID: 670-27359-6 MS
Matrix: Water
Analysis Batch: 123818

Client Sample ID: LC34-DPT0928-038.0-20230921
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.59	U	2500	2930		ug/L		117	75 - 125
1,1,1-Trichloroethane	0.59	U	2500	2930		ug/L		117	75 - 125
1,1,2,2-Tetrachloroethane	0.47	U	2500	2530		ug/L		101	74 - 125
1,1,2,2-Tetrachloroethane	0.47	U	2500	2530		ug/L		101	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	2500	2180		ug/L		87	60 - 140
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	2500	2180		ug/L		87	60 - 140
1,1,2-Trichloroethane	0.41	U	2500	2660		ug/L		107	75 - 127
1,1,2-Trichloroethane	0.41	U	2500	2660		ug/L		107	75 - 127
1,1-Dichloroethane	0.64	U	2500	2890		ug/L		116	72 - 125
1,1-Dichloroethane	0.64	U	2500	2890		ug/L		116	72 - 125
1,1-Dichloroethene	0.74	U	2500	2790		ug/L		112	59 - 172
1,1-Dichloroethene	0.74	U	2500	2790		ug/L		112	59 - 172
1,2,4-Trichlorobenzene	1.8	U	2500	2020		ug/L		81	75 - 135
1,2,4-Trichlorobenzene	1.8	U	2500	2020		ug/L		81	75 - 135
1,2-Dibromo-3-Chloropropane	0.67	U	2500	2310		ug/L		92	59 - 125
1,2-Dibromo-3-Chloropropane	0.67	U	2500	2310		ug/L		92	59 - 125
1,2-Dibromoethane (EDB)	1.0	U	2500	2710		ug/L		108	73 - 125
1,2-Dibromoethane (EDB)	1.0	U	2500	2710		ug/L		108	73 - 125
1,2-Dichlorobenzene	0.43	U	2500	2550		ug/L		102	75 - 125
1,2-Dichlorobenzene	0.43	U	2500	2550		ug/L		102	75 - 125
1,2-Dichloroethane	0.37	U	2500	2770		ug/L		111	68 - 127
1,2-Dichloroethane	0.37	U	2500	2770		ug/L		111	68 - 127
1,2-Dichloropropane	0.56	U	2500	2800		ug/L		112	74 - 125
1,2-Dichloropropane	0.56	U	2500	2800		ug/L		112	74 - 125
1,3-Dichlorobenzene	0.41	U	2500	2470		ug/L		99	75 - 125
1,3-Dichlorobenzene	0.41	U	2500	2470		ug/L		99	75 - 125
1,4-Dichlorobenzene	0.45	U	2500	2420		ug/L		97	75 - 125
1,4-Dichlorobenzene	0.45	U	2500	2420		ug/L		97	75 - 125
2-Butanone (MEK)	8.3	U	12500	12400		ug/L		99	60 - 140
2-Butanone (MEK)	8.3	U	12500	12400		ug/L		99	60 - 140
2-Hexanone	7.4	U	12500	11700		ug/L		94	60 - 140
2-Hexanone	7.4	U	12500	11700		ug/L		94	60 - 140
4-Methyl-2-pentanone	7.5	U	12500	12200		ug/L		98	60 - 140
4-Methyl-2-pentanone	7.5	U	12500	12200		ug/L		98	60 - 140

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 670-27359-6 MS
Matrix: Water
Analysis Batch: 123818

Client Sample ID: LC34-DPT0928-038.0-20230921
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	3.1	U	12500	11200		ug/L		90	60 - 140
Acetone	3.1	U	12500	11200		ug/L		90	60 - 140
Benzene	0.46	U	2500	2770		ug/L		111	66 - 142
Benzene	0.46	U	2500	2770		ug/L		111	66 - 142
Bromodichloromethane	0.55	U	2500	2960		ug/L		118	75 - 125
Bromodichloromethane	0.55	U	2500	2960		ug/L		118	75 - 125
Bromoform	0.63	U	2500	2590		ug/L		104	75 - 125
Bromoform	0.63	U	2500	2590		ug/L		104	75 - 125
Bromomethane	1.4	U	2500	2690		ug/L		108	60 - 140
Bromomethane	1.4	U	2500	2690		ug/L		108	60 - 140
Carbon disulfide	0.78	U	2500	2670		ug/L		107	60 - 140
Carbon disulfide	0.78	U	2500	2670		ug/L		107	60 - 140
Carbon tetrachloride	0.90	U	2500	2970		ug/L		119	62 - 125
Carbon tetrachloride	0.90	U	2500	2970		ug/L		119	62 - 125
Chlorobenzene	0.46	U	2500	2620		ug/L		105	60 - 133
Chlorobenzene	0.46	U	2500	2620		ug/L		105	60 - 133
Chloroethane	2.0	U	2500	2660		ug/L		107	60 - 140
Chloroethane	2.0	U	2500	2660		ug/L		107	60 - 140
Chloroform	0.46	U	2500	2960		ug/L		118	70 - 130
Chloroform	0.46	U	2500	2960		ug/L		118	70 - 130
Chloromethane	2.0	U	2500	2420		ug/L		97	60 - 140
Chloromethane	2.0	U	2500	2420		ug/L		97	60 - 140
cis-1,2-Dichloroethene	0.46	U	2500	2870		ug/L		115	75 - 125
cis-1,2-Dichloroethene	0.46	U	2500	2870		ug/L		115	75 - 125
cis-1,3-Dichloropropene	1.1	U	2500	2890		ug/L		115	74 - 125
cis-1,3-Dichloropropene	1.1	U	2500	2890		ug/L		115	74 - 125
Cyclohexane	1.3	U	2500	2470		ug/L		99	70 - 130
Cyclohexane	1.3	U	2500	2470		ug/L		99	70 - 130
Dibromochloromethane	0.55	U	2500	2930		ug/L		117	73 - 125
Dibromochloromethane	0.55	U	2500	2930		ug/L		117	73 - 125
Dichlorodifluoromethane	0.79	U	2500	1800		ug/L		72	70 - 130
Dichlorodifluoromethane	0.79	U	2500	1800		ug/L		72	70 - 130
Ethylbenzene	0.39	U	2500	2690		ug/L		108	75 - 125
Ethylbenzene	0.39	U	2500	2690		ug/L		108	75 - 125
Isopropylbenzene	0.59	U	2500	2730		ug/L		109	75 - 125
Isopropylbenzene	0.59	U	2500	2730		ug/L		109	75 - 125
m,p-Xylenes	1.2	U	2500	2650		ug/L		106	75 - 125
m,p-Xylenes	1.2	U	2500	2650		ug/L		106	75 - 125
Methyl acetate	4.0	U	5000	4800		ug/L		96	60 - 140
Methyl acetate	4.0	U	5000	4800		ug/L		96	60 - 140
Methyl tert-butyl ether	1.4	U	2500	2570		ug/L		103	65 - 135
Methyl tert-butyl ether	1.4	U	2500	2570		ug/L		103	65 - 135
Methylene Chloride	1.7	U	2500	2720		ug/L		109	75 - 125
Methylene Chloride	1.7	U	2500	2720		ug/L		109	75 - 125
o-Xylene	0.50	U	2500	2720		ug/L		109	75 - 125
o-Xylene	0.50	U	2500	2720		ug/L		109	75 - 125
Styrene	0.62	U	2500	2740		ug/L		109	75 - 125
Styrene	0.62	U	2500	2740		ug/L		109	75 - 125
Tetrachloroethene	0.66	U	2500	2430		ug/L		97	71 - 125

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 670-27359-6 MS
Matrix: Water
Analysis Batch: 123818

Client Sample ID: LC34-DPT0928-038.0-20230921
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Tetrachloroethene	0.66	U	2500	2430		ug/L		97	71 - 125
Toluene	0.48	U	2500	2700		ug/L		108	59 - 139
Toluene	0.48	U	2500	2700		ug/L		108	59 - 139
trans-1,2-Dichloroethene	0.37	U	2500	2840		ug/L		113	75 - 125
trans-1,2-Dichloroethene	0.37	U	2500	2840		ug/L		113	75 - 125
trans-1,3-Dichloropropene	1.3	U	2500	2910		ug/L		116	66 - 125
trans-1,3-Dichloropropene	1.3	U	2500	2910		ug/L		116	66 - 125
Trichloroethene	0.79	U	2500	2690		ug/L		108	62 - 137
Trichloroethene	0.79	U	2500	2690		ug/L		108	62 - 137
Trichlorofluoromethane	0.56	U	2500	3030		ug/L		121	60 - 140
Trichlorofluoromethane	0.56	U	2500	3030		ug/L		121	60 - 140
Vinyl chloride	0.43	U	2500	2620		ug/L		105	60 - 140
Vinyl chloride	0.43	U	2500	2620		ug/L		105	60 - 140
Xylenes, Total	1.2	U	5000	5370		ug/L		107	75 - 125
Xylenes, Total	1.2	U	5000	5370		ug/L		107	75 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*63 - 144*
1,2-Dichloroethane-d4 (Surr)	*98*		*63 - 144*
4-Bromofluorobenzene (Surr)	*100*		*74 - 124*
4-Bromofluorobenzene (Surr)	*100*		*74 - 124*
Dibromofluoromethane (Surr)	*105*		*75 - 131*
Dibromofluoromethane (Surr)	*105*		*75 - 131*
Toluene-d8 (Surr)	*99*		*80 - 120*
Toluene-d8 (Surr)	*99*		*80 - 120*

GC/MS VOA

Analysis Batch: 123579

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-27359-15	LC34-DPT0930-018.0-20230922	Total/NA	Water	8260D	
670-27359-15 - DL	LC34-DPT0930-018.0-20230922	Total/NA	Water	8260D	
670-27359-21	LC34-DPT0931-018.0-20230922	Total/NA	Water	8260D	
670-27359-22	LC34-DPT0931-025.0-20230922	Total/NA	Water	8260D	
670-27359-23	LC34-DPT0931-034.020230922	Total/NA	Water	8260D	
MB 860-123579/13	Method Blank	Total/NA	Water	8260D	
LCS 860-123579/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 860-123579/5	Lab Control Sample Dup	Total/NA	Water	8260D	
670-27357-A-1 MS	Matrix Spike	Total/NA	Water	8260D	

Analysis Batch: 123580

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-27359-1	LC34-DPT0928-0008.0-20230921	Total/NA	Water	8260D	
670-27359-2	LC34-DPT0928-013.0-20230921	Total/NA	Water	8260D	
670-27359-3	LC34-DPT0928-018.0-20230921	Total/NA	Water	8260D	
670-27359-4	LC34-DPT0928-025.0-20230921	Total/NA	Water	8260D	
670-27359-5	LC34-DPT0928-0.34.0-20230921	Total/NA	Water	8260D	
670-27359-6	LC34-DPT0928-038.0-20230921	Total/NA	Water	8260D	
670-27359-7	LC34-DPT0929-008.0-20230922	Total/NA	Water	8260D	
670-27359-8	LC34-DPT0929-013.0-20230922	Total/NA	Water	8260D	
670-27359-9	LC34-DPT0929-018.0-20230922	Total/NA	Water	8260D	
670-27359-10	LC34-DPT0929-025.0-20230922	Total/NA	Water	8260D	
670-27359-11	LC34-DPT0929-034.0-20230922	Total/NA	Water	8260D	
670-27359-12	LC34-DPT0929-038.0-20230922	Total/NA	Water	8260D	
670-27359-13	LC34-DPT0930-008.0-20230922	Total/NA	Water	8260D	
670-27359-14	LC34-DPT0930-013.0-20230922	Total/NA	Water	8260D	
670-27359-16	LC34-DPT0930-025.020230922	Total/NA	Water	8260D	
670-27359-17	LC34-DPT0930-034.0-20230922	Total/NA	Water	8260D	
670-27359-18	LC34-DPT0930-038.0-20230922	Total/NA	Water	8260D	
670-27359-19	LC34-DPT0931-008.0-20230922	Total/NA	Water	8260D	
670-27359-20	LC34-DPT0931-013.0-20230922	Total/NA	Water	8260D	
670-27359-24	LC34-DPT0931-038.0-20230922	Total/NA	Water	8260D	
MB 860-123580/9	Method Blank	Total/NA	Water	8260D	
LCS 860-123580/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 860-123580/4	Lab Control Sample Dup	Total/NA	Water	8260D	
670-27359-1 MS	LC34-DPT0928-0008.0-20230921	Total/NA	Water	8260D	

Analysis Batch: 123704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-27359-4 - DL	LC34-DPT0928-025.0-20230921	Total/NA	Water	8260D	
MB 860-123704/10	Method Blank	Total/NA	Water	8260D	
LCS 860-123704/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 860-123704/4	Lab Control Sample Dup	Total/NA	Water	8260D	
880-33571-A-7 MS	Matrix Spike	Total/NA	Water	8260D	
880-33571-B-7 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Analysis Batch: 123818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-27359-5 - RA	LC34-DPT0928-0.34.0-20230921	Total/NA	Water	8260D	
670-27359-6 - RA	LC34-DPT0928-038.0-20230921	Total/NA	Water	8260D	
670-27359-9 - DL	LC34-DPT0929-018.0-20230922	Total/NA	Water	8260D	

GC/MS VOA (Continued)

Analysis Batch: 123818 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-27359-10 - DL	LC34-DPT0929-025.0-20230922	Total/NA	Water	8260D	
670-27359-20 - DL	LC34-DPT0931-013.0-20230922	Total/NA	Water	8260D	
MB 860-123818/10	Method Blank	Total/NA	Water	8260D	
LCS 860-123818/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 860-123818/4	Lab Control Sample Dup	Total/NA	Water	8260D	
670-27359-6 MS	LC34-DPT0928-038.0-20230921	Total/NA	Water	8260D	

Lab Chronicle

Client: Tetra Tech, Inc.
Job ID: 670-27359-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT0928-0008.0-20230921
Lab Sample ID: 670-27359-1
Date Collected: 09/21/23 14:35
Matrix: Water
Date Received: 09/23/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	123580	NA	EET HOU	09/27/23 10:40

Client Sample ID: LC34-DPT0928-013.0-20230921
Lab Sample ID: 670-27359-2
Date Collected: 09/21/23 14:50
Matrix: Water
Date Received: 09/23/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	123580	NA	EET HOU	09/27/23 11:01

Client Sample ID: LC34-DPT0928-018.0-20230921
Lab Sample ID: 670-27359-3
Date Collected: 09/21/23 15:05
Matrix: Water
Date Received: 09/23/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		10	123580	NA	EET HOU	09/27/23 16:08

Client Sample ID: LC34-DPT0928-025.0-20230921
Lab Sample ID: 670-27359-4
Date Collected: 09/21/23 15:25
Matrix: Water
Date Received: 09/23/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	123580	NA	EET HOU	09/27/23 11:21
Total/NA	Analysis	8260D	DL	10	123704	NA	EET HOU	09/28/23 01:43

Client Sample ID: LC34-DPT0928-0.34.0-20230921
Lab Sample ID: 670-27359-5
Date Collected: 09/21/23 15:45
Matrix: Water
Date Received: 09/23/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	123580	NA	EET HOU	09/27/23 11:42
Total/NA	Analysis	8260D	RA	1	123818	NA	EET HOU	09/28/23 14:07

Client Sample ID: LC34-DPT0928-038.0-20230921
Lab Sample ID: 670-27359-6
Date Collected: 09/21/23 16:05
Matrix: Water
Date Received: 09/23/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	123580	NA	EET HOU	09/27/23 12:02
Total/NA	Analysis	8260D	RA	1	123818	NA	EET HOU	09/28/23 14:30

Client Sample ID: LC34-DPT0929-008.0-20230922
Lab Sample ID: 670-27359-7
Date Collected: 09/22/23 08:00
Matrix: Water
Date Received: 09/23/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	123580	NA	EET HOU	09/27/23 12:23

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27359-1

Client Sample ID: LC34-DPT0929-013.0-20230922
Lab Sample ID: 670-27359-8
Date Collected: 09/22/23 08:15
Matrix: Water
Date Received: 09/23/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	123580	NA	EET HOU	09/27/23 12:43

Client Sample ID: LC34-DPT0929-018.0-20230922
Lab Sample ID: 670-27359-9
Date Collected: 09/22/23 08:30
Matrix: Water
Date Received: 09/23/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		10	123580	NA	EET HOU	09/27/23 16:29
Total/NA	Analysis	8260D	DL	50	123818	NA	EET HOU	09/28/23 16:12

Client Sample ID: LC34-DPT0929-025.0-20230922
Lab Sample ID: 670-27359-10
Date Collected: 09/22/23 08:45
Matrix: Water
Date Received: 09/23/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		10	123580	NA	EET HOU	09/27/23 16:49
Total/NA	Analysis	8260D	DL	50	123818	NA	EET HOU	09/28/23 16:33

Client Sample ID: LC34-DPT0929-034.0-20230922
Lab Sample ID: 670-27359-11
Date Collected: 09/22/23 09:00
Matrix: Water
Date Received: 09/23/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	123580	NA	EET HOU	09/27/23 13:04

Client Sample ID: LC34-DPT0929-038.0-20230922
Lab Sample ID: 670-27359-12
Date Collected: 09/22/23 09:20
Matrix: Water
Date Received: 09/23/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	123580	NA	EET HOU	09/27/23 13:24

Client Sample ID: LC34-DPT0930-008.0-20230922
Lab Sample ID: 670-27359-13
Date Collected: 09/22/23 09:55
Matrix: Water
Date Received: 09/23/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	123580	NA	EET HOU	09/27/23 13:45

Client Sample ID: LC34-DPT0930-013.0-20230922
Lab Sample ID: 670-27359-14
Date Collected: 09/22/23 10:10
Matrix: Water
Date Received: 09/23/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	123580	NA	EET HOU	09/27/23 14:05

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27359-1

Client Sample ID: LC34-DPT0930-018.0-20230922
Lab Sample ID: 670-27359-15
Date Collected: 09/22/23 10:25
Matrix: Water
Date Received: 09/23/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	123579	NA	EET HOU	09/27/23 16:55
Total/NA	Analysis	8260D	DL	10	123579	NA	EET HOU	09/27/23 17:15

Client Sample ID: LC34-DPT0930-025.020230922
Lab Sample ID: 670-27359-16
Date Collected: 09/22/23 10:40
Matrix: Water
Date Received: 09/23/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		10	123580	NA	EET HOU	09/27/23 17:10

Client Sample ID: LC34-DPT0930-034.0-20230922
Lab Sample ID: 670-27359-17
Date Collected: 09/22/23 11:00
Matrix: Water
Date Received: 09/23/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	123580	NA	EET HOU	09/27/23 14:26

Client Sample ID: LC34-DPT0930-038.0-20230922
Lab Sample ID: 670-27359-18
Date Collected: 09/22/23 11:25
Matrix: Water
Date Received: 09/23/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	123580	NA	EET HOU	09/27/23 14:46

Client Sample ID: LC34-DPT0931-008.0-20230922
Lab Sample ID: 670-27359-19
Date Collected: 09/22/23 12:15
Matrix: Water
Date Received: 09/23/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	123580	NA	EET HOU	09/27/23 15:07

Client Sample ID: LC34-DPT0931-013.0-20230922
Lab Sample ID: 670-27359-20
Date Collected: 09/22/23 12:30
Matrix: Water
Date Received: 09/23/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	123580	NA	EET HOU	09/27/23 15:27
Total/NA	Analysis	8260D	DL	5	123818	NA	EET HOU	09/28/23 16:57

Client Sample ID: LC34-DPT0931-018.0-20230922
Lab Sample ID: 670-27359-21
Date Collected: 09/22/23 12:45
Matrix: Water
Date Received: 09/23/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		10	123579	NA	EET HOU	09/27/23 17:36

Lab Chronicle

Client: Tetra Tech, Inc.
Job ID: 670-27359-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT0931-025.0-20230922
Lab Sample ID: 670-27359-22
Date Collected: 09/22/23 13:05
Matrix: Water
Date Received: 09/23/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		25	123579	NA	EET HOU	09/27/23 17:56

Client Sample ID: LC34-DPT0931-034.020230922
Lab Sample ID: 670-27359-23
Date Collected: 09/22/23 13:25
Matrix: Water
Date Received: 09/23/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	123579	NA	EET HOU	09/27/23 16:14

Client Sample ID: LC34-DPT0931-038.0-20230922
Lab Sample ID: 670-27359-24
Date Collected: 09/22/23 13:45
Matrix: Water
Date Received: 09/23/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	123580	NA	EET HOU	09/27/23 15:48

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: Tetra Tech, Inc.
Job ID: 670-27359-1
Project/Site: NASA KSC LC34 DPT

Laboratory: Eurofins Houston

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E871002	06-30-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260D		Water	Cyclohexane

Method Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27359-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET HOU
5030C	Purge and Trap	SW846	EET HOU

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27359-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
670-27359-1	LC34-DPT0928-0008.0-20230921	Water	09/21/23 14:35	09/23/23 08:00
670-27359-2	LC34-DPT0928-013.0-20230921	Water	09/21/23 14:50	09/23/23 08:00
670-27359-3	LC34-DPT0928-018.0-20230921	Water	09/21/23 15:05	09/23/23 08:00
670-27359-4	LC34-DPT0928-025.0-20230921	Water	09/21/23 15:25	09/23/23 08:00
670-27359-5	LC34-DPT0928-0.34.0-20230921	Water	09/21/23 15:45	09/23/23 08:00
670-27359-6	LC34-DPT0928-038.0-20230921	Water	09/21/23 16:05	09/23/23 08:00
670-27359-7	LC34-DPT0929-008.0-20230922	Water	09/22/23 08:00	09/23/23 08:00
670-27359-8	LC34-DPT0929-013.0-20230922	Water	09/22/23 08:15	09/23/23 08:00
670-27359-9	LC34-DPT0929-018.0-20230922	Water	09/22/23 08:30	09/23/23 08:00
670-27359-10	LC34-DPT0929-025.0-20230922	Water	09/22/23 08:45	09/23/23 08:00
670-27359-11	LC34-DPT0929-034.0-20230922	Water	09/22/23 09:00	09/23/23 08:00
670-27359-12	LC34-DPT0929-038.0-20230922	Water	09/22/23 09:20	09/23/23 08:00
670-27359-13	LC34-DPT0930-008.0-20230922	Water	09/22/23 09:55	09/23/23 08:00
670-27359-14	LC34-DPT0930-013.0-20230922	Water	09/22/23 10:10	09/23/23 08:00
670-27359-15	LC34-DPT0930-018.0-20230922	Water	09/22/23 10:25	09/23/23 08:00
670-27359-16	LC34-DPT0930-025.020230922	Water	09/22/23 10:40	09/23/23 08:00
670-27359-17	LC34-DPT0930-034.0-20230922	Water	09/22/23 11:00	09/23/23 08:00
670-27359-18	LC34-DPT0930-038.0-20230922	Water	09/22/23 11:25	09/23/23 08:00
670-27359-19	LC34-DPT0931-008.0-20230922	Water	09/22/23 12:15	09/23/23 08:00
670-27359-20	LC34-DPT0931-013.0-20230922	Water	09/22/23 12:30	09/23/23 08:00
670-27359-21	LC34-DPT0931-018.0-20230922	Water	09/22/23 12:45	09/23/23 08:00
670-27359-22	LC34-DPT0931-025.0-20230922	Water	09/22/23 13:05	09/23/23 08:00
670-27359-23	LC34-DPT0931-034.020230922	Water	09/22/23 13:25	09/23/23 08:00
670-27359-24	LC34-DPT0931-038.0-20230922	Water	09/22/23 13:45	09/23/23 08:00

Tetra Tech, Inc.

CHAIN OF CUSTODY | NUMBER No. 3718 | PAGE 1 OF 2

PROJECT NO: 112G08985	FACILITY: KSC - LC34	PROJECT MANAGER Mark Sonner	PHONE NUMBER (412) 921-8622	LABORATORY NAME AND CONTACT: Eurofins – Kaitlin Dykroki
SAMPLERS (SIGNATURE) - Chuck Sorden		FIELD OPERATIONS LEADER Chuck Sorden	PHONE NUMBER (321) 591-7580	ADDRESS 481 Newburyport Ave.
		CARRIER/WAYBILL NUMBER		CITY, STATE Altamonte Springs, FL

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE (YEAR 2023)	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)		COMMENTS
									G	G	
									PRESERVATIVE USED		HCl/4°C 4°C
									TYPE OF ANALYSIS		
									8260D-(MOD)SIM SA LC34 Custom List	8260D-(MOD) NASA LC34 Custom List	
09/21	1435	LC34-DPT0928-008.0-20230921	38	6	10	GW	G	4	X	X	
	1450	LC34-DPT0928-013.0-20230921		11	15						
	1505	LC34-DPT0928-018.0-20230921		16	20						
	1525	LC34-DPT0928-025.0-20230921		23	27						
	1545	LC34-DPT0928-034.0-20230921		32	36						
09/21	1605	LC34-DPT0928-038.0-20230921	38	36	40						
09/22	0800	LC34-DPT0929-008.0-20230922	32	6	10						
	0815	LC34-DPT0929-013.0-20230922		11	15						
	0830	LC34-DPT0929-018.0-20230922		16	20						
	0845	LC34-DPT0929-025.0-20230922		23	27						
	0900	LC34-DPT0929-034.0-20230922		32	36						
	0920	LC34-DPT0929-038.0-20230922	32	36	40						
09/22	0955	LC34-DPT0930-008.0-20230922	26	6	10	GW	G	4	X	X	



	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	09/22/23	1435	1. RECEIVED BY	9-22-23	14:35
2. RELINQUISHED BY			2. RECEIVED BY MC	9/23/23	8:00
3. RELINQUISHED BY			3. RECEIVED BY		

COMMENTS 1.5/1.0 1.2/0.7

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R

596 FORM NO. TtNUS-681

Tetra Tech, Inc. CHAIN OF CUSTODY | NUMBER No. 3719 | PAGE 2 OF 2

PROJECT NO: 112G08985	FACILITY: KSC-LC34	PROJECT MANAGER Mark Jonnet	PHONE NUMBER (412) 921-8622	LABORATORY NAME AND CONTACT: Eurofins — Kaitlin Dylnicki
SAMPLERS (SIGNATURE) - Chuck Sorden		FIELD OPERATIONS LEADER Chuck Sorden	PHONE NUMBER (321) 591-7580	ADDRESS 481 Newburyport Ave.
		CARRIER/WAYBILL NUMBER		CITY, STATE Altamonte Springs, FL

STANDARD TAT ☒
RUSH TAT ☐ ☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): G G
PRESERVATIVE USED: HCl/4°C 4°C

DATE YEAR 2023	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS: 8260D-(MOD) NASA LC34 Custom List	8260D-(MOD) NASA LC34 Custom List	COMMENTS
09/22	1010	LC34-DPT0930-013.0-20230922	26	11	15	GW	G	4	X	X	
	1025	LC34-DPT0930-018.0-20230922		16	20						
	1040	LC34-DPT0930-025.0-20230922		23	27						
	1100	LC34-DPT0930-034.0-20230922		32	36						
	1125	LC34-DPT0930-038.0-20230922	26	36	40						
	1215	LC34-DPT0930-008.0-20230922	19	6	10						
	1230	LC34-DPT0931-013.0-20230922		11	15						
	1245	LC34-DPT0931-018.0-20230922		16	20						
	1305	LC34-DPT0931-025.0-20230922		23	27						
	1325	LC34-DPT0931-034.0-20230922		32	36						
09/22	1345	LC34-DPT0931-038.0-20230922	19	36	40	GW	G	4	X	X	

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	09/22/23	1435	1. RECEIVED BY	9-22-23	14:35
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY MC	9/23/23	8:00
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS 1.5/1.0 1.2/0.7

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 670-27359-1

Login Number: 27359
List Number: 1
Creator: Clerisier, Meline

List Source: Eurofins Orlando

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 670-27359-1

Login Number: 27359
List Number: 2
Creator: Baker, Jeremiah

List Source: Eurofins Houston
List Creation: 09/26/23 10:40 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Mark Jonnet
Tetra Tech, Inc.
Foster Plaza 7
661 Anderson Drive
Suite 200
Pittsburgh, Pennsylvania 15220-2745

Generated 10/6/2023 4:20:43 PM

JOB DESCRIPTION

NASA KSC LC34

JOB NUMBER

670-27487-1

Eurofins Orlando
481 Newburyport Avenue
Altamonte Springs FL 32701

See page two for job notes and contact information.

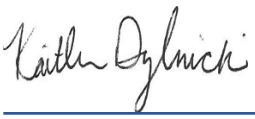
my EOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization



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Authorized for release by
Kaitlin Dylnicki, Project Manager
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(407)339-5984

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Definitions/Glossary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34

Job ID: 670-27487-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
U	Indicates that the compound was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 670-27487-1

Laboratory: Eurofins Orlando

Narrative

Job Narrative
Client: Tetra Tech
Client PM: Mark Jonnet
Project: NASA KSC LC34
Project Number: 112G08985
670-27487-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 9/27/2023 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.5°C

GC/MS VOA
Method 8260D: The matrix spike (MS) recoveries for analytical batch 860-124268 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8260D: The matrix spike (MS) recoveries for analytical batch 860-124262 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS/LCSD) recovery is within acceptance limits.

Method 8260D: The following samples were diluted to bring the concentration of target analytes within the calibration range: LC34-DPT0932-013.0-20230925 (670-27487-2), LC34-DPT0932-018.0-20230925 (670-27487-3), LC34-DPT0932-025.0-20230925 (670-27487-4), LC34-DPT0933-018.0-20230925 (670-27487-9), LC34-DPT0933-025.0-20230925 (670-27487-10), LC34-DPT0936-013.0-20230926 (670-27487-26), LC34-DPT0936-018.0-20230926 (670-27487-27), LC34-DPT0936-025.0-20230926 (670-27487-28), LC34-DPT0937-013.0-20230926 (670-27487-32), LC34-DPT0937-018.0-20230926 (670-27487-33), LC34-DPT0937-025.0-20230926 (670-27487-34) and LC34-DPT0937-034.0-20230926 (670-27487-35). Elevated reporting limits (RLs) are provided.

Method 8260D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-124308 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8260D: The following sample was diluted to bring the concentration of target analytes within the calibration range: LC34-DPT0937-034.0-20230926 (670-27487-35). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34

Job ID: 670-27487-1

Client Sample ID: LC34-DPT0932-008.0-20230925 — Lab Sample ID: 670-27487-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	19		1.0	0.46	ug/L	1		8260D	Total/NA
Vinyl chloride	79		2.0	0.43	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0932-013.0-20230925 — Lab Sample ID: 670-27487-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	0.93	I	1.0	0.74	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	2.4		1.0	0.37	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene - DL	410		10	4.6	ug/L	10		8260D	Total/NA
Vinyl chloride - DL	360		20	4.3	ug/L	10		8260D	Total/NA

Client Sample ID: LC34-DPT0932-018.0-20230925 — Lab Sample ID: 670-27487-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	25		1.0	0.74	ug/L	1		8260D	Total/NA
Dichlorodifluoromethane	8.4		1.0	0.79	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene - DL	210		20	7.4	ug/L	20		8260D	Total/NA
Vinyl chloride - DL	1400		40	8.6	ug/L	20		8260D	Total/NA
cis-1,2-Dichloroethene - DL2	10000		200	91	ug/L	200		8260D	Total/NA

Client Sample ID: LC34-DPT0932-025.0-20230925 — Lab Sample ID: 670-27487-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	1.0		1.0	0.74	ug/L	1		8260D	Total/NA
Carbon disulfide	1.9	I	5.0	0.78	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	8.7		1.0	0.37	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene - DL	780		20	9.1	ug/L	20		8260D	Total/NA
Vinyl chloride - DL	100		40	8.6	ug/L	20		8260D	Total/NA

Client Sample ID: LC34-DPT0932-034.0-20230925 — Lab Sample ID: 670-27487-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	1.4	I	5.0	0.78	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	1.1		1.0	0.46	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0932-038.0-20230925 — Lab Sample ID: 670-27487-6

No Detections.

Client Sample ID: LC34-DPT0933-008.0-20230925 — Lab Sample ID: 670-27487-7

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	23		2.0	0.43	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0933-013.0-20230925 — Lab Sample ID: 670-27487-8

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	34		1.0	0.46	ug/L	1		8260D	Total/NA
Vinyl chloride	100		2.0	0.43	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0933-018.0-20230925 — Lab Sample ID: 670-27487-9

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	18		1.0	0.74	ug/L	1		8260D	Total/NA
Carbon disulfide	1.1	I	5.0	0.78	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

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Client Sample ID: LC34-DPT0933-018.0-20230925 (Continued) — Lab Sample ID: 670-27487-9

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
trans-1,2-Dichloroethene - DL	220		20	7.4	ug/L	20		8260D	Total/NA
cis-1,2-Dichloroethene - DL2	7600		200	91	ug/L	200		8260D	Total/NA
Vinyl chloride - DL2	3100		400	86	ug/L	200		8260D	Total/NA

Client Sample ID: LC34-DPT0933-025.0-20230925 — Lab Sample ID: 670-27487-10

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	0.81	I	1.0	0.74	ug/L	1		8260D	Total/NA
Carbon disulfide	2.6	I	5.0	0.78	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	8.8		1.0	0.37	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene - DL	850		10	4.6	ug/L	10		8260D	Total/NA
Vinyl chloride - DL	170		20	4.3	ug/L	10		8260D	Total/NA

Client Sample ID: LC34-DPT0933-034.0-20230925 — Lab Sample ID: 670-27487-11

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
trans-1,2-Dichloroethene	0.46	I	1.0	0.37	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene - RA	2.0		1.0	0.46	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0933-038.0-20230925 — Lab Sample ID: 670-27487-12

No Detections.

Client Sample ID: LC34-DPT0934-008.0-20230925 — Lab Sample ID: 670-27487-13

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	40		1.0	0.46	ug/L	1		8260D	Total/NA
Vinyl chloride	55		2.0	0.43	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0934-013.0-20230925 — Lab Sample ID: 670-27487-14

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	63		1.0	0.46	ug/L	1		8260D	Total/NA
Vinyl chloride	97		2.0	0.43	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0934-018.0-20230925 — Lab Sample ID: 670-27487-15

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	95		1.0	0.46	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	0.47	I	1.0	0.37	ug/L	1		8260D	Total/NA
Vinyl chloride	120		2.0	0.43	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0934-025.0-20230925 — Lab Sample ID: 670-27487-16

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	63		1.0	0.46	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	1.5		1.0	0.37	ug/L	1		8260D	Total/NA
Vinyl chloride	51		2.0	0.43	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0934-034.0-20230925 — Lab Sample ID: 670-27487-17

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.81	I	5.0	0.78	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	5.1		1.0	0.46	ug/L	1		8260D	Total/NA
Vinyl chloride	13		2.0	0.43	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34

Job ID: 670-27487-1

Client Sample ID: LC34-DPT0934-038.0-20230925 — Lab Sample ID: 670-27487-18

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.80	I	5.0	0.78	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0935-008.0-20230926 — Lab Sample ID: 670-27487-19

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	19		1.0	0.46	ug/L	1		8260D	Total/NA
Vinyl chloride	25		2.0	0.43	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0935-013.0-20230926 — Lab Sample ID: 670-27487-20

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	29		1.0	0.46	ug/L	1		8260D	Total/NA
Vinyl chloride	44		2.0	0.43	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0935-018.0-20230926 — Lab Sample ID: 670-27487-21

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	97		1.0	0.46	ug/L	1		8260D	Total/NA
Vinyl chloride	83		2.0	0.43	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0935-025.0-20230926 — Lab Sample ID: 670-27487-22

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	80		1.0	0.46	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	1.3		1.0	0.37	ug/L	1		8260D	Total/NA
Vinyl chloride	73		2.0	0.43	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0935-034.0-20230926 — Lab Sample ID: 670-27487-23

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	66		1.0	0.46	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	0.79	I	1.0	0.37	ug/L	1		8260D	Total/NA
Vinyl chloride	74		2.0	0.43	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0935-038.0-20230926 — Lab Sample ID: 670-27487-24

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	9.4		1.0	0.46	ug/L	1		8260D	Total/NA
Vinyl chloride	4.6		2.0	0.43	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0936-008.0-20230926 — Lab Sample ID: 670-27487-25

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	23		1.0	0.46	ug/L	1		8260D	Total/NA
Vinyl chloride	38		2.0	0.43	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0936-013.0-20230926 — Lab Sample ID: 670-27487-26

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
trans-1,2-Dichloroethene	1.2		1.0	0.37	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene - DL	210		5.0	2.3	ug/L	5		8260D	Total/NA
Vinyl chloride - DL	170		10	2.1	ug/L	5		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34

Job ID: 670-27487-1

Client Sample ID: LC34-DPT0936-018.0-20230926 — Lab Sample ID: 670-27487-27

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
trans-1,2-Dichloroethene	30		1.0	0.37	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene - DL	1000		20	9.1	ug/L	20		8260D	Total/NA
Vinyl chloride - DL	1100		40	8.6	ug/L	20		8260D	Total/NA

Client Sample ID: LC34-DPT0936-025.0-20230926 — Lab Sample ID: 670-27487-28

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	35		1.0	0.46	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	17		1.0	0.37	ug/L	1		8260D	Total/NA
Vinyl chloride - DL	5200		200	43	ug/L	100		8260D	Total/NA

Client Sample ID: LC34-DPT0936-034.0-20230926 — Lab Sample ID: 670-27487-29

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	82		2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene - RA	4.3		1.0	0.46	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0936-038.0-20230926 — Lab Sample ID: 670-27487-30

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride - RA	2.4		2.0	0.43	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0937-008.0-20230926 — Lab Sample ID: 670-27487-31

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	28		1.0	0.46	ug/L	1		8260D	Total/NA
Vinyl chloride	58		2.0	0.43	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0937-013.0-20230926 — Lab Sample ID: 670-27487-32

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene - DL	320		5.0	2.3	ug/L	5		8260D	Total/NA
Vinyl chloride - DL	310		10	2.1	ug/L	5		8260D	Total/NA

Client Sample ID: LC34-DPT0937-018.0-20230926 — Lab Sample ID: 670-27487-33

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
trans-1,2-Dichloroethene	42		1.0	0.37	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene - DL	700		25	11	ug/L	25		8260D	Total/NA
Vinyl chloride - DL	2100		50	11	ug/L	25		8260D	Total/NA

Client Sample ID: LC34-DPT0937-025.0-20230926 — Lab Sample ID: 670-27487-34

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	3.2	I	5.0	0.78	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	2.4		1.0	0.46	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene - DL	440		100	37	ug/L	100		8260D	Total/NA
Vinyl chloride - DL	9500		200	43	ug/L	100		8260D	Total/NA

Client Sample ID: LC34-DPT0937-034.0-20230926 — Lab Sample ID: 670-27487-35

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	4.3	I	5.0	2.3	ug/L	5		8260D	Total/NA
Vinyl chloride	420		10	2.1	ug/L	5		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34

Job ID: 670-27487-1

Client Sample ID: LC34-DPT0937-038.0-20230926 **Lab Sample ID: 670-27487-36**

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34

Job ID: 670-27487-1

Client Sample ID: LC34-DPT0932-008.0-20230925

Lab Sample ID: 670-27487-1

Date Collected: 09/25/23 09:25

Matrix: Water

Date Received: 09/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.59	U	5.0	0.59	ug/L			09/29/23 15:28	1
1,1,2,2-Tetrachloroethane	0.47	U	1.0	0.47	ug/L			09/29/23 15:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	10	1.1	ug/L			09/29/23 15:28	1
1,1,2-Trichloroethane	0.41	U	1.0	0.41	ug/L			09/29/23 15:28	1
1,1-Dichloroethane	0.64	U	1.0	0.64	ug/L			09/29/23 15:28	1
1,1-Dichloroethene	0.74	U	1.0	0.74	ug/L			09/29/23 15:28	1
1,2,4-Trichlorobenzene	1.8	U	5.0	1.8	ug/L			09/29/23 15:28	1
1,2-Dibromo-3-Chloropropane	0.67	U	5.0	0.67	ug/L			09/29/23 15:28	1
1,2-Dibromoethane (EDB)	1.0	U	5.0	1.0	ug/L			09/29/23 15:28	1
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			09/29/23 15:28	1
1,2-Dichloroethane	0.37	U	1.0	0.37	ug/L			09/29/23 15:28	1
1,2-Dichloropropane	0.56	U	5.0	0.56	ug/L			09/29/23 15:28	1
1,3-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			09/29/23 15:28	1
1,4-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			09/29/23 15:28	1
2-Butanone (MEK)	8.3	U	50	8.3	ug/L			09/29/23 15:28	1
2-Hexanone	7.4	U	50	7.4	ug/L			09/29/23 15:28	1
4-Methyl-2-pentanone	7.5	U	50	7.5	ug/L			09/29/23 15:28	1
Acetone	3.1	U	100	3.1	ug/L			09/29/23 15:28	1
Benzene	0.46	U	1.0	0.46	ug/L			09/29/23 15:28	1
Bromodichloromethane	0.55	U	1.0	0.55	ug/L			09/29/23 15:28	1
Bromoform	0.63	U	5.0	0.63	ug/L			09/29/23 15:28	1
Bromomethane	1.4	U	5.0	1.4	ug/L			09/29/23 15:28	1
Carbon disulfide	0.78	U	5.0	0.78	ug/L			09/29/23 15:28	1
Carbon tetrachloride	0.90	U	5.0	0.90	ug/L			09/29/23 15:28	1
Chlorobenzene	0.46	U	1.0	0.46	ug/L			09/29/23 15:28	1
Chloroethane	2.0	U	10	2.0	ug/L			09/29/23 15:28	1
Chloroform	0.46	U	1.0	0.46	ug/L			09/29/23 15:28	1
Chloromethane	2.0	U	10	2.0	ug/L			09/29/23 15:28	1
cis-1,2-Dichloroethene	**19**		1.0	0.46	ug/L			09/29/23 15:28	1
cis-1,3-Dichloropropene	1.1	U	5.0	1.1	ug/L			09/29/23 15:28	1
Cyclohexane	1.3	U	5.0	1.3	ug/L			09/29/23 15:28	1
Dibromochloromethane	0.55	U	5.0	0.55	ug/L			09/29/23 15:28	1
Dichlorodifluoromethane	0.79	U	1.0	0.79	ug/L			09/29/23 15:28	1
Ethylbenzene	0.39	U	1.0	0.39	ug/L			09/29/23 15:28	1
Isopropylbenzene	0.59	U	1.0	0.59	ug/L			09/29/23 15:28	1
m,p-Xylenes	1.2	U	10	1.2	ug/L			09/29/23 15:28	1
Methyl acetate	4.0	U	20	4.0	ug/L			09/29/23 15:28	1
Methyl tert-butyl ether	1.4	U	5.0	1.4	ug/L			09/29/23 15:28	1
Methylene Chloride	1.7	U	5.0	1.7	ug/L			09/29/23 15:28	1
o-Xylene	0.50	U	1.0	0.50	ug/L			09/29/23 15:28	1
Styrene	0.62	U	1.0	0.62	ug/L			09/29/23 15:28	1
Tetrachloroethene	0.66	U	1.0	0.66	ug/L			09/29/23 15:28	1
Toluene	0.48	U	1.0	0.48	ug/L			09/29/23 15:28	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			09/29/23 15:28	1
trans-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			09/29/23 15:28	1
Trichloroethene	0.79	U	5.0	0.79	ug/L			09/29/23 15:28	1
Trichlorofluoromethane	0.56	U	1.0	0.56	ug/L			09/29/23 15:28	1
Vinyl chloride	**79**		2.0	0.43	ug/L			09/29/23 15:28	1
Xylenes, Total	1.2	U	10	1.2	ug/L			09/29/23 15:28	1

Client Sample ID: LC34-DPT0932-008.0-20230925

Lab Sample ID: 670-27487-1

Date Collected: 09/25/23 09:25
Matrix: Water
Date Received: 09/27/23 08:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*63 - 144*		*09/29/23 15:28*	*1*
4-Bromofluorobenzene (Surr)	*97*		*74 - 124*		*09/29/23 15:28*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 131*		*09/29/23 15:28*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*09/29/23 15:28*	*1*

Client Sample ID: LC34-DPT0932-013.0-20230925

Lab Sample ID: 670-27487-2

Date Collected: 09/25/23 09:40
Matrix: Water
Date Received: 09/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.59	U	5.0	0.59	ug/L			09/29/23 15:48	1
1,1,2,2-Tetrachloroethane	0.47	U	1.0	0.47	ug/L			09/29/23 15:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	10	1.1	ug/L			09/29/23 15:48	1
1,1,2-Trichloroethane	0.41	U	1.0	0.41	ug/L			09/29/23 15:48	1
1,1-Dichloroethane	0.64	U	1.0	0.64	ug/L			09/29/23 15:48	1
1,1-Dichloroethene	**0.93**	**I**	1.0	0.74	ug/L			09/29/23 15:48	1
1,2,4-Trichlorobenzene	1.8	U	5.0	1.8	ug/L			09/29/23 15:48	1
1,2-Dibromo-3-Chloropropane	0.67	U	5.0	0.67	ug/L			09/29/23 15:48	1
1,2-Dibromoethane (EDB)	1.0	U	5.0	1.0	ug/L			09/29/23 15:48	1
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			09/29/23 15:48	1
1,2-Dichloroethane	0.37	U	1.0	0.37	ug/L			09/29/23 15:48	1
1,2-Dichloropropane	0.56	U	5.0	0.56	ug/L			09/29/23 15:48	1
1,3-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			09/29/23 15:48	1
1,4-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			09/29/23 15:48	1
2-Butanone (MEK)	8.3	U	50	8.3	ug/L			09/29/23 15:48	1
2-Hexanone	7.4	U	50	7.4	ug/L			09/29/23 15:48	1
4-Methyl-2-pentanone	7.5	U	50	7.5	ug/L			09/29/23 15:48	1
Acetone	3.1	U	100	3.1	ug/L			09/29/23 15:48	1
Benzene	0.46	U	1.0	0.46	ug/L			09/29/23 15:48	1
Bromodichloromethane	0.55	U	1.0	0.55	ug/L			09/29/23 15:48	1
Bromoform	0.63	U	5.0	0.63	ug/L			09/29/23 15:48	1
Bromomethane	1.4	U	5.0	1.4	ug/L			09/29/23 15:48	1
Carbon disulfide	0.78	U	5.0	0.78	ug/L			09/29/23 15:48	1
Carbon tetrachloride	0.90	U	5.0	0.90	ug/L			09/29/23 15:48	1
Chlorobenzene	0.46	U	1.0	0.46	ug/L			09/29/23 15:48	1
Chloroethane	2.0	U	10	2.0	ug/L			09/29/23 15:48	1
Chloroform	0.46	U	1.0	0.46	ug/L			09/29/23 15:48	1
Chloromethane	2.0	U	10	2.0	ug/L			09/29/23 15:48	1
cis-1,3-Dichloropropene	1.1	U	5.0	1.1	ug/L			09/29/23 15:48	1
Cyclohexane	1.3	U	5.0	1.3	ug/L			09/29/23 15:48	1
Dibromochloromethane	0.55	U	5.0	0.55	ug/L			09/29/23 15:48	1
Dichlorodifluoromethane	0.79	U	1.0	0.79	ug/L			09/29/23 15:48	1
Ethylbenzene	0.39	U	1.0	0.39	ug/L			09/29/23 15:48	1
Isopropylbenzene	0.59	U	1.0	0.59	ug/L			09/29/23 15:48	1
m,p-Xylenes	1.2	U	10	1.2	ug/L			09/29/23 15:48	1
Methyl acetate	4.0	U	20	4.0	ug/L			09/29/23 15:48	1
Methyl tert-butyl ether	1.4	U	5.0	1.4	ug/L			09/29/23 15:48	1
Methylene Chloride	1.7	U	5.0	1.7	ug/L			09/29/23 15:48	1
o-Xylene	0.50	U	1.0	0.50	ug/L			09/29/23 15:48	1

Client Sample ID: LC34-DPT0932-013.0-20230925

Lab Sample ID: 670-27487-2

Date Collected: 09/25/23 09:40
Matrix: Water
Date Received: 09/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.62	U	1.0	0.62	ug/L			09/29/23 15:48	1
Tetrachloroethene	0.66	U	1.0	0.66	ug/L			09/29/23 15:48	1
Toluene	0.48	U	1.0	0.48	ug/L			09/29/23 15:48	1
trans-1,2-Dichloroethene	**2.4**		1.0	0.37	ug/L			09/29/23 15:48	1
trans-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			09/29/23 15:48	1
Trichloroethene	0.79	U	5.0	0.79	ug/L			09/29/23 15:48	1
Trichlorofluoromethane	0.56	U	1.0	0.56	ug/L			09/29/23 15:48	1
Xylenes, Total	1.2	U	10	1.2	ug/L			09/29/23 15:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*63 - 144*		*09/29/23 15:48*	*1*
4-Bromofluorobenzene (Surr)	*103*		*74 - 124*		*09/29/23 15:48*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 131*		*09/29/23 15:48*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*09/29/23 15:48*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**410**		10	4.6	ug/L			10/02/23 16:19	10
Vinyl chloride	**360**		20	4.3	ug/L			10/02/23 16:19	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*63 - 144*		*10/02/23 16:19*	*10*
4-Bromofluorobenzene (Surr)	*99*		*74 - 124*		*10/02/23 16:19*	*10*
Dibromofluoromethane (Surr)	*101*		*75 - 131*		*10/02/23 16:19*	*10*
Toluene-d8 (Surr)	*99*		*80 - 120*		*10/02/23 16:19*	*10*

Client Sample ID: LC34-DPT0932-018.0-20230925

Lab Sample ID: 670-27487-3

Date Collected: 09/25/23 09:55
Matrix: Water
Date Received: 09/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.59	U	5.0	0.59	ug/L			09/29/23 16:09	1
1,1,2,2-Tetrachloroethane	0.47	U	1.0	0.47	ug/L			09/29/23 16:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	10	1.1	ug/L			09/29/23 16:09	1
1,1,2-Trichloroethane	0.41	U	1.0	0.41	ug/L			09/29/23 16:09	1
1,1-Dichloroethane	0.64	U	1.0	0.64	ug/L			09/29/23 16:09	1
1,1-Dichloroethene	**25**		1.0	0.74	ug/L			09/29/23 16:09	1
1,2,4-Trichlorobenzene	1.8	U	5.0	1.8	ug/L			09/29/23 16:09	1
1,2-Dibromo-3-Chloropropane	0.67	U	5.0	0.67	ug/L			09/29/23 16:09	1
1,2-Dibromoethane (EDB)	1.0	U	5.0	1.0	ug/L			09/29/23 16:09	1
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			09/29/23 16:09	1
1,2-Dichloroethane	0.37	U	1.0	0.37	ug/L			09/29/23 16:09	1
1,2-Dichloropropane	0.56	U	5.0	0.56	ug/L			09/29/23 16:09	1
1,3-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			09/29/23 16:09	1
1,4-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			09/29/23 16:09	1
2-Butanone (MEK)	8.3	U	50	8.3	ug/L			09/29/23 16:09	1
2-Hexanone	7.4	U	50	7.4	ug/L			09/29/23 16:09	1
4-Methyl-2-pentanone	7.5	U	50	7.5	ug/L			09/29/23 16:09	1
Acetone	3.1	U	100	3.1	ug/L			09/29/23 16:09	1
Benzene	0.46	U	1.0	0.46	ug/L			09/29/23 16:09	1

Client Sample ID: LC34-DPT0932-018.0-20230925
Date Collected: 09/25/23 09:55
Date Received: 09/27/23 08:00

Lab Sample ID: 670-27487-3
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	0.55	U	1.0	0.55	ug/L			09/29/23 16:09	1
Bromoform	0.63	U	5.0	0.63	ug/L			09/29/23 16:09	1
Bromomethane	1.4	U	5.0	1.4	ug/L			09/29/23 16:09	1
Carbon disulfide	0.78	U	5.0	0.78	ug/L			09/29/23 16:09	1
Carbon tetrachloride	0.90	U	5.0	0.90	ug/L			09/29/23 16:09	1
Chlorobenzene	0.46	U	1.0	0.46	ug/L			09/29/23 16:09	1
Chloroethane	2.0	U	10	2.0	ug/L			09/29/23 16:09	1
Chloroform	0.46	U	1.0	0.46	ug/L			09/29/23 16:09	1
Chloromethane	2.0	U	10	2.0	ug/L			09/29/23 16:09	1
cis-1,3-Dichloropropene	1.1	U	5.0	1.1	ug/L			09/29/23 16:09	1
Cyclohexane	1.3	U	5.0	1.3	ug/L			09/29/23 16:09	1
Dibromochloromethane	0.55	U	5.0	0.55	ug/L			09/29/23 16:09	1
Dichlorodifluoromethane	**8.4**		1.0	0.79	ug/L			09/29/23 16:09	1
Ethylbenzene	0.39	U	1.0	0.39	ug/L			09/29/23 16:09	1
Isopropylbenzene	0.59	U	1.0	0.59	ug/L			09/29/23 16:09	1
m,p-Xylenes	1.2	U	10	1.2	ug/L			09/29/23 16:09	1
Methyl acetate	4.0	U	20	4.0	ug/L			09/29/23 16:09	1
Methyl tert-butyl ether	1.4	U	5.0	1.4	ug/L			09/29/23 16:09	1
Methylene Chloride	1.7	U	5.0	1.7	ug/L			09/29/23 16:09	1
o-Xylene	0.50	U	1.0	0.50	ug/L			09/29/23 16:09	1
Styrene	0.62	U	1.0	0.62	ug/L			09/29/23 16:09	1
Tetrachloroethene	0.66	U	1.0	0.66	ug/L			09/29/23 16:09	1
Toluene	0.48	U	1.0	0.48	ug/L			09/29/23 16:09	1
trans-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			09/29/23 16:09	1
Trichloroethene	0.79	U	5.0	0.79	ug/L			09/29/23 16:09	1
Trichlorofluoromethane	0.56	U	1.0	0.56	ug/L			09/29/23 16:09	1
Xylenes, Total	1.2	U	10	1.2	ug/L			09/29/23 16:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*63 - 144*		*09/29/23 16:09*	*1*
4-Bromofluorobenzene (Surr)	*99*		*74 - 124*		*09/29/23 16:09*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 131*		*09/29/23 16:09*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*09/29/23 16:09*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	**210**		20	7.4	ug/L			10/02/23 17:00	20
Vinyl chloride	**1400**		40	8.6	ug/L			10/02/23 17:00	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*63 - 144*		*10/02/23 17:00*	*20*
4-Bromofluorobenzene (Surr)	*100*		*74 - 124*		*10/02/23 17:00*	*20*
Dibromofluoromethane (Surr)	*102*		*75 - 131*		*10/02/23 17:00*	*20*
Toluene-d8 (Surr)	*100*		*80 - 120*		*10/02/23 17:00*	*20*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL2

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**10000**		200	91	ug/L			10/02/23 17:20	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*63 - 144*		*10/02/23 17:20*	*200*

Client Sample ID: LC34-DPT0932-018.0-20230925

Lab Sample ID: 670-27487-3

Date Collected: 09/25/23 09:55
Matrix: Water
Date Received: 09/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL2 (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*74 - 124*		*10/02/23 17:20*	*200*
Dibromofluoromethane (Surr)	*100*		*75 - 131*		*10/02/23 17:20*	*200*
Toluene-d8 (Surr)	*100*		*80 - 120*		*10/02/23 17:20*	*200*

Client Sample ID: LC34-DPT0932-025.0-20230925

Lab Sample ID: 670-27487-4

Date Collected: 09/25/23 10:10
Matrix: Water
Date Received: 09/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.59	U	5.0	0.59	ug/L			09/29/23 16:29	1
1,1,2,2-Tetrachloroethane	0.47	U	1.0	0.47	ug/L			09/29/23 16:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	10	1.1	ug/L			09/29/23 16:29	1
1,1,2-Trichloroethane	0.41	U	1.0	0.41	ug/L			09/29/23 16:29	1
1,1-Dichloroethane	0.64	U	1.0	0.64	ug/L			09/29/23 16:29	1
1,1-Dichloroethene	**1.0**		1.0	0.74	ug/L			09/29/23 16:29	1
1,2,4-Trichlorobenzene	1.8	U	5.0	1.8	ug/L			09/29/23 16:29	1
1,2-Dibromo-3-Chloropropane	0.67	U	5.0	0.67	ug/L			09/29/23 16:29	1
1,2-Dibromoethane (EDB)	1.0	U	5.0	1.0	ug/L			09/29/23 16:29	1
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			09/29/23 16:29	1
1,2-Dichloroethane	0.37	U	1.0	0.37	ug/L			09/29/23 16:29	1
1,2-Dichloropropane	0.56	U	5.0	0.56	ug/L			09/29/23 16:29	1
1,3-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			09/29/23 16:29	1
1,4-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			09/29/23 16:29	1
2-Butanone (MEK)	8.3	U	50	8.3	ug/L			09/29/23 16:29	1
2-Hexanone	7.4	U	50	7.4	ug/L			09/29/23 16:29	1
4-Methyl-2-pentanone	7.5	U	50	7.5	ug/L			09/29/23 16:29	1
Acetone	3.1	U	100	3.1	ug/L			09/29/23 16:29	1
Benzene	0.46	U	1.0	0.46	ug/L			09/29/23 16:29	1
Bromodichloromethane	0.55	U	1.0	0.55	ug/L			09/29/23 16:29	1
Bromoform	0.63	U	5.0	0.63	ug/L			09/29/23 16:29	1
Bromomethane	1.4	U	5.0	1.4	ug/L			09/29/23 16:29	1
Carbon disulfide	**1.9**	**I**	5.0	0.78	ug/L			09/29/23 16:29	1
Carbon tetrachloride	0.90	U	5.0	0.90	ug/L			09/29/23 16:29	1
Chlorobenzene	0.46	U	1.0	0.46	ug/L			09/29/23 16:29	1
Chloroethane	2.0	U	10	2.0	ug/L			09/29/23 16:29	1
Chloroform	0.46	U	1.0	0.46	ug/L			09/29/23 16:29	1
Chloromethane	2.0	U	10	2.0	ug/L			09/29/23 16:29	1
cis-1,3-Dichloropropene	1.1	U	5.0	1.1	ug/L			09/29/23 16:29	1
Cyclohexane	1.3	U	5.0	1.3	ug/L			09/29/23 16:29	1
Dibromochloromethane	0.55	U	5.0	0.55	ug/L			09/29/23 16:29	1
Dichlorodifluoromethane	0.79	U	1.0	0.79	ug/L			09/29/23 16:29	1
Ethylbenzene	0.39	U	1.0	0.39	ug/L			09/29/23 16:29	1
Isopropylbenzene	0.59	U	1.0	0.59	ug/L			09/29/23 16:29	1
m,p-Xylenes	1.2	U	10	1.2	ug/L			09/29/23 16:29	1
Methyl acetate	4.0	U	20	4.0	ug/L			09/29/23 16:29	1
Methyl tert-butyl ether	1.4	U	5.0	1.4	ug/L			09/29/23 16:29	1
Methylene Chloride	1.7	U	5.0	1.7	ug/L			09/29/23 16:29	1
o-Xylene	0.50	U	1.0	0.50	ug/L			09/29/23 16:29	1

Client Sample ID: LC34-DPT0932-025.0-20230925

Lab Sample ID: 670-27487-4

Date Collected: 09/25/23 10:10

Matrix: Water

Date Received: 09/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.62	U	1.0	0.62	ug/L			09/29/23 16:29	1
Tetrachloroethene	0.66	U	1.0	0.66	ug/L			09/29/23 16:29	1
Toluene	0.48	U	1.0	0.48	ug/L			09/29/23 16:29	1
trans-1,2-Dichloroethene	**8.7**		1.0	0.37	ug/L			09/29/23 16:29	1
trans-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			09/29/23 16:29	1
Trichloroethene	0.79	U	5.0	0.79	ug/L			09/29/23 16:29	1
Trichlorofluoromethane	0.56	U	1.0	0.56	ug/L			09/29/23 16:29	1
Xylenes, Total	1.2	U	10	1.2	ug/L			09/29/23 16:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*63 - 144*		*09/29/23 16:29*	*1*
4-Bromofluorobenzene (Surr)	*98*		*74 - 124*		*09/29/23 16:29*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 131*		*09/29/23 16:29*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*09/29/23 16:29*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**780**		20	9.1	ug/L			10/02/23 16:39	20
Vinyl chloride	**100**		40	8.6	ug/L			10/02/23 16:39	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*63 - 144*		*10/02/23 16:39*	*20*
4-Bromofluorobenzene (Surr)	*100*		*74 - 124*		*10/02/23 16:39*	*20*
Dibromofluoromethane (Surr)	*100*		*75 - 131*		*10/02/23 16:39*	*20*
Toluene-d8 (Surr)	*100*		*80 - 120*		*10/02/23 16:39*	*20*

Client Sample ID: LC34-DPT0932-034.0-20230925

Lab Sample ID: 670-27487-5

Date Collected: 09/25/23 10:30

Matrix: Water

Date Received: 09/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.59	U	5.0	0.59	ug/L			09/29/23 16:50	1
1,1,2,2-Tetrachloroethane	0.47	U	1.0	0.47	ug/L			09/29/23 16:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	10	1.1	ug/L			09/29/23 16:50	1
1,1,2-Trichloroethane	0.41	U	1.0	0.41	ug/L			09/29/23 16:50	1
1,1-Dichloroethane	0.64	U	1.0	0.64	ug/L			09/29/23 16:50	1
1,1-Dichloroethene	0.74	U	1.0	0.74	ug/L			09/29/23 16:50	1
1,2,4-Trichlorobenzene	1.8	U	5.0	1.8	ug/L			09/29/23 16:50	1
1,2-Dibromo-3-Chloropropane	0.67	U	5.0	0.67	ug/L			09/29/23 16:50	1
1,2-Dibromoethane (EDB)	1.0	U	5.0	1.0	ug/L			09/29/23 16:50	1
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			09/29/23 16:50	1
1,2-Dichloroethane	0.37	U	1.0	0.37	ug/L			09/29/23 16:50	1
1,2-Dichloropropane	0.56	U	5.0	0.56	ug/L			09/29/23 16:50	1
1,3-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			09/29/23 16:50	1
1,4-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			09/29/23 16:50	1
2-Butanone (MEK)	8.3	U	50	8.3	ug/L			09/29/23 16:50	1
2-Hexanone	7.4	U	50	7.4	ug/L			09/29/23 16:50	1
4-Methyl-2-pentanone	7.5	U	50	7.5	ug/L			09/29/23 16:50	1
Acetone	3.1	U	100	3.1	ug/L			09/29/23 16:50	1
Benzene	0.46	U	1.0	0.46	ug/L			09/29/23 16:50	1

Client Sample ID: LC34-DPT0932-034.0-20230925

Lab Sample ID: 670-27487-5

Date Collected: 09/25/23 10:30
Matrix: Water
Date Received: 09/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	0.55	U	1.0	0.55	ug/L			09/29/23 16:50	1
Bromoform	0.63	U	5.0	0.63	ug/L			09/29/23 16:50	1
Bromomethane	1.4	U	5.0	1.4	ug/L			09/29/23 16:50	1
Carbon disulfide	**1.4**	**I**	5.0	0.78	ug/L			10/02/23 10:23	1
Carbon tetrachloride	0.90	U	5.0	0.90	ug/L			09/29/23 16:50	1
Chlorobenzene	0.46	U	1.0	0.46	ug/L			09/29/23 16:50	1
Chloroethane	2.0	U	10	2.0	ug/L			09/29/23 16:50	1
Chloroform	0.46	U	1.0	0.46	ug/L			09/29/23 16:50	1
Chloromethane	2.0	U	10	2.0	ug/L			09/29/23 16:50	1
cis-1,2-Dichloroethene	**1.1**		1.0	0.46	ug/L			10/02/23 10:23	1
cis-1,3-Dichloropropene	1.1	U	5.0	1.1	ug/L			09/29/23 16:50	1
Cyclohexane	1.3	U	5.0	1.3	ug/L			09/29/23 16:50	1
Dibromochloromethane	0.55	U	5.0	0.55	ug/L			09/29/23 16:50	1
Dichlorodifluoromethane	0.79	U	1.0	0.79	ug/L			09/29/23 16:50	1
Ethylbenzene	0.39	U	1.0	0.39	ug/L			09/29/23 16:50	1
Isopropylbenzene	0.59	U	1.0	0.59	ug/L			09/29/23 16:50	1
m,p-Xylenes	1.2	U	10	1.2	ug/L			09/29/23 16:50	1
Methyl acetate	4.0	U	20	4.0	ug/L			09/29/23 16:50	1
Methyl tert-butyl ether	1.4	U	5.0	1.4	ug/L			09/29/23 16:50	1
Methylene Chloride	1.7	U	5.0	1.7	ug/L			09/29/23 16:50	1
o-Xylene	0.50	U	1.0	0.50	ug/L			09/29/23 16:50	1
Styrene	0.62	U	1.0	0.62	ug/L			09/29/23 16:50	1
Tetrachloroethene	0.66	U	1.0	0.66	ug/L			09/29/23 16:50	1
Toluene	0.48	U	1.0	0.48	ug/L			09/29/23 16:50	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			09/29/23 16:50	1
trans-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			09/29/23 16:50	1
Trichloroethene	0.79	U	5.0	0.79	ug/L			09/29/23 16:50	1
Trichlorofluoromethane	0.56	U	1.0	0.56	ug/L			09/29/23 16:50	1
Vinyl chloride	0.43	U	2.0	0.43	ug/L			10/02/23 10:23	1
Xylenes, Total	1.2	U	10	1.2	ug/L			09/29/23 16:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*63 - 144*		*09/29/23 16:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*63 - 144*		*10/02/23 10:23*	*1*
4-Bromofluorobenzene (Surr)	*98*		*74 - 124*		*09/29/23 16:50*	*1*
4-Bromofluorobenzene (Surr)	*103*		*74 - 124*		*10/02/23 10:23*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 131*		*09/29/23 16:50*	*1*
Dibromofluoromethane (Surr)	*107*		*75 - 131*		*10/02/23 10:23*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*09/29/23 16:50*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*		*10/02/23 10:23*	*1*

Client Sample ID: LC34-DPT0932-038.0-20230925

Lab Sample ID: 670-27487-6

Date Collected: 09/25/23 10:50
Matrix: Water
Date Received: 09/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.59	U	5.0	0.59	ug/L			09/29/23 17:10	1
1,1,2,2-Tetrachloroethane	0.47	U	1.0	0.47	ug/L			09/29/23 17:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	10	1.1	ug/L			09/29/23 17:10	1

Client Sample ID: LC34-DPT0932-038.0-20230925
Date Collected: 09/25/23 10:50
Date Received: 09/27/23 08:00

Lab Sample ID: 670-27487-6
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	0.41	U	1.0	0.41	ug/L			09/29/23 17:10	1
1,1-Dichloroethane	0.64	U	1.0	0.64	ug/L			09/29/23 17:10	1
1,1-Dichloroethene	0.74	U	1.0	0.74	ug/L			09/29/23 17:10	1
1,2,4-Trichlorobenzene	1.8	U	5.0	1.8	ug/L			09/29/23 17:10	1
1,2-Dibromo-3-Chloropropane	0.67	U	5.0	0.67	ug/L			09/29/23 17:10	1
1,2-Dibromoethane (EDB)	1.0	U	5.0	1.0	ug/L			09/29/23 17:10	1
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			09/29/23 17:10	1
1,2-Dichloroethane	0.37	U	1.0	0.37	ug/L			09/29/23 17:10	1
1,2-Dichloropropane	0.56	U	5.0	0.56	ug/L			09/29/23 17:10	1
1,3-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			09/29/23 17:10	1
1,4-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			09/29/23 17:10	1
2-Butanone (MEK)	8.3	U	50	8.3	ug/L			09/29/23 17:10	1
2-Hexanone	7.4	U	50	7.4	ug/L			09/29/23 17:10	1
4-Methyl-2-pentanone	7.5	U	50	7.5	ug/L			09/29/23 17:10	1
Acetone	3.1	U	100	3.1	ug/L			09/29/23 17:10	1
Benzene	0.46	U	1.0	0.46	ug/L			09/29/23 17:10	1
Bromodichloromethane	0.55	U	1.0	0.55	ug/L			09/29/23 17:10	1
Bromoform	0.63	U	5.0	0.63	ug/L			09/29/23 17:10	1
Bromomethane	1.4	U	5.0	1.4	ug/L			09/29/23 17:10	1
Carbon tetrachloride	0.90	U	5.0	0.90	ug/L			09/29/23 17:10	1
Chlorobenzene	0.46	U	1.0	0.46	ug/L			09/29/23 17:10	1
Chloroethane	2.0	U	10	2.0	ug/L			09/29/23 17:10	1
Chloroform	0.46	U	1.0	0.46	ug/L			09/29/23 17:10	1
Chloromethane	2.0	U	10	2.0	ug/L			09/29/23 17:10	1
cis-1,3-Dichloropropene	1.1	U	5.0	1.1	ug/L			09/29/23 17:10	1
Cyclohexane	1.3	U	5.0	1.3	ug/L			09/29/23 17:10	1
Dibromochloromethane	0.55	U	5.0	0.55	ug/L			09/29/23 17:10	1
Dichlorodifluoromethane	0.79	U	1.0	0.79	ug/L			09/29/23 17:10	1
Ethylbenzene	0.39	U	1.0	0.39	ug/L			09/29/23 17:10	1
Isopropylbenzene	0.59	U	1.0	0.59	ug/L			09/29/23 17:10	1
m,p-Xylenes	1.2	U	10	1.2	ug/L			09/29/23 17:10	1
Methyl acetate	4.0	U	20	4.0	ug/L			09/29/23 17:10	1
Methyl tert-butyl ether	1.4	U	5.0	1.4	ug/L			09/29/23 17:10	1
Methylene Chloride	1.7	U	5.0	1.7	ug/L			09/29/23 17:10	1
o-Xylene	0.50	U	1.0	0.50	ug/L			09/29/23 17:10	1
Styrene	0.62	U	1.0	0.62	ug/L			09/29/23 17:10	1
Tetrachloroethene	0.66	U	1.0	0.66	ug/L			09/29/23 17:10	1
Toluene	0.48	U	1.0	0.48	ug/L			09/29/23 17:10	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			09/29/23 17:10	1
trans-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			09/29/23 17:10	1
Trichloroethene	0.79	U	5.0	0.79	ug/L			09/29/23 17:10	1
Trichlorofluoromethane	0.56	U	1.0	0.56	ug/L			09/29/23 17:10	1
Vinyl chloride	0.43	U	2.0	0.43	ug/L			09/29/23 17:10	1
Xylenes, Total	1.2	U	10	1.2	ug/L			09/29/23 17:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*63 - 144*		*09/29/23 17:10*	*1*
4-Bromofluorobenzene (Surr)	*99*		*74 - 124*		*09/29/23 17:10*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 131*		*09/29/23 17:10*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*09/29/23 17:10*	*1*

Client Sample ID: LC34-DPT0932-038.0-20230925

Lab Sample ID: 670-27487-6

Date Collected: 09/25/23 10:50
Matrix: Water
Date Received: 09/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	0.78	U	5.0	0.78	ug/L			10/02/23 10:20	1
cis-1,2-Dichloroethene	0.46	U	1.0	0.46	ug/L			10/02/23 10:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*63 - 144*		*10/02/23 10:20*	*1*
4-Bromofluorobenzene (Surr)	*99*		*74 - 124*		*10/02/23 10:20*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 131*		*10/02/23 10:20*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*10/02/23 10:20*	*1*

Client Sample ID: LC34-DPT0933-008.0-20230925

Lab Sample ID: 670-27487-7

Date Collected: 09/25/23 11:25
Matrix: Water
Date Received: 09/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.59	U	5.0	0.59	ug/L			09/29/23 17:31	1
1,1,2,2-Tetrachloroethane	0.47	U	1.0	0.47	ug/L			09/29/23 17:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	10	1.1	ug/L			09/29/23 17:31	1
1,1,2-Trichloroethane	0.41	U	1.0	0.41	ug/L			09/29/23 17:31	1
1,1-Dichloroethane	0.64	U	1.0	0.64	ug/L			09/29/23 17:31	1
1,1-Dichloroethene	0.74	U	1.0	0.74	ug/L			09/29/23 17:31	1
1,2,4-Trichlorobenzene	1.8	U	5.0	1.8	ug/L			09/29/23 17:31	1
1,2-Dibromo-3-Chloropropane	0.67	U	5.0	0.67	ug/L			09/29/23 17:31	1
1,2-Dibromoethane (EDB)	1.0	U	5.0	1.0	ug/L			09/29/23 17:31	1
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			09/29/23 17:31	1
1,2-Dichloroethane	0.37	U	1.0	0.37	ug/L			09/29/23 17:31	1
1,2-Dichloropropane	0.56	U	5.0	0.56	ug/L			09/29/23 17:31	1
1,3-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			09/29/23 17:31	1
1,4-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			09/29/23 17:31	1
2-Butanone (MEK)	8.3	U	50	8.3	ug/L			09/29/23 17:31	1
2-Hexanone	7.4	U	50	7.4	ug/L			09/29/23 17:31	1
4-Methyl-2-pentanone	7.5	U	50	7.5	ug/L			09/29/23 17:31	1
Acetone	3.1	U	100	3.1	ug/L			09/29/23 17:31	1
Benzene	0.46	U	1.0	0.46	ug/L			09/29/23 17:31	1
Bromodichloromethane	0.55	U	1.0	0.55	ug/L			09/29/23 17:31	1
Bromoform	0.63	U	5.0	0.63	ug/L			09/29/23 17:31	1
Bromomethane	1.4	U	5.0	1.4	ug/L			09/29/23 17:31	1
Carbon disulfide	0.78	U	5.0	0.78	ug/L			09/29/23 17:31	1
Carbon tetrachloride	0.90	U	5.0	0.90	ug/L			09/29/23 17:31	1
Chlorobenzene	0.46	U	1.0	0.46	ug/L			09/29/23 17:31	1
Chloroethane	2.0	U	10	2.0	ug/L			09/29/23 17:31	1
Chloroform	0.46	U	1.0	0.46	ug/L			09/29/23 17:31	1
Chloromethane	2.0	U	10	2.0	ug/L			09/29/23 17:31	1
cis-1,2-Dichloroethene	0.46	U	1.0	0.46	ug/L			10/02/23 11:53	1
cis-1,3-Dichloropropene	1.1	U	5.0	1.1	ug/L			09/29/23 17:31	1
Cyclohexane	1.3	U	5.0	1.3	ug/L			09/29/23 17:31	1
Dibromochloromethane	0.55	U	5.0	0.55	ug/L			09/29/23 17:31	1
Dichlorodifluoromethane	0.79	U	1.0	0.79	ug/L			09/29/23 17:31	1
Ethylbenzene	0.39	U	1.0	0.39	ug/L			09/29/23 17:31	1
Isopropylbenzene	0.59	U	1.0	0.59	ug/L			09/29/23 17:31	1

Client Sample ID: LC34-DPT0933-008.0-20230925

Lab Sample ID: 670-27487-7

Date Collected: 09/25/23 11:25
Matrix: Water
Date Received: 09/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylenes	1.2	U	10	1.2	ug/L			09/29/23 17:31	1
Methyl acetate	4.0	U	20	4.0	ug/L			09/29/23 17:31	1
Methyl tert-butyl ether	1.4	U	5.0	1.4	ug/L			09/29/23 17:31	1
Methylene Chloride	1.7	U	5.0	1.7	ug/L			09/29/23 17:31	1
o-Xylene	0.50	U	1.0	0.50	ug/L			09/29/23 17:31	1
Styrene	0.62	U	1.0	0.62	ug/L			09/29/23 17:31	1
Tetrachloroethene	0.66	U	1.0	0.66	ug/L			09/29/23 17:31	1
Toluene	0.48	U	1.0	0.48	ug/L			09/29/23 17:31	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			09/29/23 17:31	1
trans-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			09/29/23 17:31	1
Trichloroethene	0.79	U	5.0	0.79	ug/L			09/29/23 17:31	1
Trichlorofluoromethane	0.56	U	1.0	0.56	ug/L			09/29/23 17:31	1
Vinyl chloride	**23**		2.0	0.43	ug/L			09/29/23 17:31	1
Xylenes, Total	1.2	U	10	1.2	ug/L			09/29/23 17:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*63 - 144*		*09/29/23 17:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*63 - 144*		*10/02/23 11:53*	*1*
4-Bromofluorobenzene (Surr)	*99*		*74 - 124*		*09/29/23 17:31*	*1*
4-Bromofluorobenzene (Surr)	*100*		*74 - 124*		*10/02/23 11:53*	*1*
Dibromofluoromethane (Surr)	*104*		*75 - 131*		*09/29/23 17:31*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 131*		*10/02/23 11:53*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*09/29/23 17:31*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*10/02/23 11:53*	*1*

Client Sample ID: LC34-DPT0933-013.0-20230925

Lab Sample ID: 670-27487-8

Date Collected: 09/25/23 11:40
Matrix: Water
Date Received: 09/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.59	U	5.0	0.59	ug/L			09/29/23 17:51	1
1,1,2,2-Tetrachloroethane	0.47	U	1.0	0.47	ug/L			09/29/23 17:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	10	1.1	ug/L			09/29/23 17:51	1
1,1,2-Trichloroethane	0.41	U	1.0	0.41	ug/L			09/29/23 17:51	1
1,1-Dichloroethane	0.64	U	1.0	0.64	ug/L			09/29/23 17:51	1
1,1-Dichloroethene	0.74	U	1.0	0.74	ug/L			09/29/23 17:51	1
1,2,4-Trichlorobenzene	1.8	U	5.0	1.8	ug/L			09/29/23 17:51	1
1,2-Dibromo-3-Chloropropane	0.67	U	5.0	0.67	ug/L			09/29/23 17:51	1
1,2-Dibromoethane (EDB)	1.0	U	5.0	1.0	ug/L			09/29/23 17:51	1
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			09/29/23 17:51	1
1,2-Dichloroethane	0.37	U	1.0	0.37	ug/L			09/29/23 17:51	1
1,2-Dichloropropane	0.56	U	5.0	0.56	ug/L			09/29/23 17:51	1
1,3-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			09/29/23 17:51	1
1,4-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			09/29/23 17:51	1
2-Butanone (MEK)	8.3	U	50	8.3	ug/L			09/29/23 17:51	1
2-Hexanone	7.4	U	50	7.4	ug/L			09/29/23 17:51	1
4-Methyl-2-pentanone	7.5	U	50	7.5	ug/L			09/29/23 17:51	1
Acetone	3.1	U	100	3.1	ug/L			09/29/23 17:51	1
Benzene	0.46	U	1.0	0.46	ug/L			09/29/23 17:51	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34

Job ID: 670-27487-1

Client Sample ID: LC34-DPT0933-013.0-20230925

Lab Sample ID: 670-27487-8

Date Collected: 09/25/23 11:40
Date Received: 09/27/23 08:00

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	0.55	U	1.0	0.55	ug/L			09/29/23 17:51	1
Bromoform	0.63	U	5.0	0.63	ug/L			09/29/23 17:51	1
Bromomethane	1.4	U	5.0	1.4	ug/L			09/29/23 17:51	1
Carbon disulfide	0.78	U	5.0	0.78	ug/L			09/29/23 17:51	1
Carbon tetrachloride	0.90	U	5.0	0.90	ug/L			09/29/23 17:51	1
Chlorobenzene	0.46	U	1.0	0.46	ug/L			09/29/23 17:51	1
Chloroethane	2.0	U	10	2.0	ug/L			09/29/23 17:51	1
Chloroform	0.46	U	1.0	0.46	ug/L			09/29/23 17:51	1
Chloromethane	2.0	U	10	2.0	ug/L			09/29/23 17:51	1
cis-1,2-Dichloroethene	**34**		1.0	0.46	ug/L			09/29/23 17:51	1
cis-1,3-Dichloropropene	1.1	U	5.0	1.1	ug/L			09/29/23 17:51	1
Cyclohexane	1.3	U	5.0	1.3	ug/L			09/29/23 17:51	1
Dibromochloromethane	0.55	U	5.0	0.55	ug/L			09/29/23 17:51	1
Dichlorodifluoromethane	0.79	U	1.0	0.79	ug/L			09/29/23 17:51	1
Ethylbenzene	0.39	U	1.0	0.39	ug/L			09/29/23 17:51	1
Isopropylbenzene	0.59	U	1.0	0.59	ug/L			09/29/23 17:51	1
m,p-Xylenes	1.2	U	10	1.2	ug/L			09/29/23 17:51	1
Methyl acetate	4.0	U	20	4.0	ug/L			09/29/23 17:51	1
Methyl tert-butyl ether	1.4	U	5.0	1.4	ug/L			09/29/23 17:51	1
Methylene Chloride	1.7	U	5.0	1.7	ug/L			09/29/23 17:51	1
o-Xylene	0.50	U	1.0	0.50	ug/L			09/29/23 17:51	1
Styrene	0.62	U	1.0	0.62	ug/L			09/29/23 17:51	1
Tetrachloroethene	0.66	U	1.0	0.66	ug/L			09/29/23 17:51	1
Toluene	0.48	U	1.0	0.48	ug/L			09/29/23 17:51	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			09/29/23 17:51	1
trans-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			09/29/23 17:51	1
Trichloroethene	0.79	U	5.0	0.79	ug/L			09/29/23 17:51	1
Trichlorofluoromethane	0.56	U	1.0	0.56	ug/L			09/29/23 17:51	1
Vinyl chloride	**100**		2.0	0.43	ug/L			09/29/23 17:51	1
Xylenes, Total	1.2	U	10	1.2	ug/L			09/29/23 17:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*63 - 144*		*09/29/23 17:51*	*1*
4-Bromofluorobenzene (Surr)	*98*		*74 - 124*		*09/29/23 17:51*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 131*		*09/29/23 17:51*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*09/29/23 17:51*	*1*

Client Sample ID: LC34-DPT0933-018.0-20230925

Lab Sample ID: 670-27487-9

Date Collected: 09/25/23 11:55
Date Received: 09/27/23 08:00

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.59	U	5.0	0.59	ug/L			09/29/23 18:12	1
1,1,2,2-Tetrachloroethane	0.47	U	1.0	0.47	ug/L			09/29/23 18:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	10	1.1	ug/L			09/29/23 18:12	1
1,1,2-Trichloroethane	0.41	U	1.0	0.41	ug/L			09/29/23 18:12	1
1,1-Dichloroethane	0.64	U	1.0	0.64	ug/L			09/29/23 18:12	1
1,1-Dichloroethene	**18**		1.0	0.74	ug/L			09/29/23 18:12	1
1,2,4-Trichlorobenzene	1.8	U	5.0	1.8	ug/L			09/29/23 18:12	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34

Job ID: 670-27487-1

Client Sample ID: LC34-DPT0933-018.0-20230925
Date Collected: 09/25/23 11:55
Date Received: 09/27/23 08:00

Lab Sample ID: 670-27487-9
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	0.67	U	5.0	0.67	ug/L			09/29/23 18:12	1
1,2-Dibromoethane (EDB)	1.0	U	5.0	1.0	ug/L			09/29/23 18:12	1
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			09/29/23 18:12	1
1,2-Dichloroethane	0.37	U	1.0	0.37	ug/L			09/29/23 18:12	1
1,2-Dichloropropane	0.56	U	5.0	0.56	ug/L			09/29/23 18:12	1
1,3-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			09/29/23 18:12	1
1,4-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			09/29/23 18:12	1
2-Butanone (MEK)	8.3	U	50	8.3	ug/L			09/29/23 18:12	1
2-Hexanone	7.4	U	50	7.4	ug/L			09/29/23 18:12	1
4-Methyl-2-pentanone	7.5	U	50	7.5	ug/L			09/29/23 18:12	1
Acetone	3.1	U	100	3.1	ug/L			09/29/23 18:12	1
Benzene	0.46	U	1.0	0.46	ug/L			09/29/23 18:12	1
Bromodichloromethane	0.55	U	1.0	0.55	ug/L			09/29/23 18:12	1
Bromoform	0.63	U	5.0	0.63	ug/L			09/29/23 18:12	1
Bromomethane	1.4	U	5.0	1.4	ug/L			09/29/23 18:12	1
Carbon disulfide	**1.1**	**I**	5.0	0.78	ug/L			09/29/23 18:12	1
Carbon tetrachloride	0.90	U	5.0	0.90	ug/L			09/29/23 18:12	1
Chlorobenzene	0.46	U	1.0	0.46	ug/L			09/29/23 18:12	1
Chloroethane	2.0	U	10	2.0	ug/L			09/29/23 18:12	1
Chloroform	0.46	U	1.0	0.46	ug/L			09/29/23 18:12	1
Chloromethane	2.0	U	10	2.0	ug/L			09/29/23 18:12	1
cis-1,3-Dichloropropene	1.1	U	5.0	1.1	ug/L			09/29/23 18:12	1
Cyclohexane	1.3	U	5.0	1.3	ug/L			09/29/23 18:12	1
Dibromochloromethane	0.55	U	5.0	0.55	ug/L			09/29/23 18:12	1
Dichlorodifluoromethane	0.79	U	1.0	0.79	ug/L			09/29/23 18:12	1
Ethylbenzene	0.39	U	1.0	0.39	ug/L			09/29/23 18:12	1
Isopropylbenzene	0.59	U	1.0	0.59	ug/L			09/29/23 18:12	1
m,p-Xylenes	1.2	U	10	1.2	ug/L			09/29/23 18:12	1
Methyl acetate	4.0	U	20	4.0	ug/L			09/29/23 18:12	1
Methyl tert-butyl ether	1.4	U	5.0	1.4	ug/L			09/29/23 18:12	1
Methylene Chloride	1.7	U	5.0	1.7	ug/L			09/29/23 18:12	1
o-Xylene	0.50	U	1.0	0.50	ug/L			09/29/23 18:12	1
Styrene	0.62	U	1.0	0.62	ug/L			09/29/23 18:12	1
Tetrachloroethene	0.66	U	1.0	0.66	ug/L			09/29/23 18:12	1
Toluene	0.48	U	1.0	0.48	ug/L			09/29/23 18:12	1
trans-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			09/29/23 18:12	1
Trichloroethene	0.79	U	5.0	0.79	ug/L			09/29/23 18:12	1
Trichlorofluoromethane	0.56	U	1.0	0.56	ug/L			09/29/23 18:12	1
Xylenes, Total	1.2	U	10	1.2	ug/L			09/29/23 18:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*63 - 144*		*09/29/23 18:12*	*1*
4-Bromofluorobenzene (Surr)	*101*		*74 - 124*		*09/29/23 18:12*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 131*		*09/29/23 18:12*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*09/29/23 18:12*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	**220**		20	7.4	ug/L			10/02/23 17:41	20

Client Sample ID: LC34-DPT0933-018.0-20230925

Lab Sample ID: 670-27487-9

Date Collected: 09/25/23 11:55

Matrix: Water

Date Received: 09/27/23 08:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*63 - 144*		*10/02/23 17:41*	*20*
4-Bromofluorobenzene (Surr)	*100*		*74 - 124*		*10/02/23 17:41*	*20*
Dibromofluoromethane (Surr)	*103*		*75 - 131*		*10/02/23 17:41*	*20*
Toluene-d8 (Surr)	*99*		*80 - 120*		*10/02/23 17:41*	*20*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL2

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**7600**		200	91	ug/L			10/02/23 18:01	200
Vinyl chloride	**3100**		400	86	ug/L			10/02/23 18:01	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*63 - 144*		*10/02/23 18:01*	*200*
4-Bromofluorobenzene (Surr)	*101*		*74 - 124*		*10/02/23 18:01*	*200*
Dibromofluoromethane (Surr)	*102*		*75 - 131*		*10/02/23 18:01*	*200*
Toluene-d8 (Surr)	*100*		*80 - 120*		*10/02/23 18:01*	*200*

Client Sample ID: LC34-DPT0933-025.0-20230925

Lab Sample ID: 670-27487-10

Date Collected: 09/25/23 12:15

Matrix: Water

Date Received: 09/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.59	U	5.0	0.59	ug/L			09/29/23 18:32	1
1,1,2,2-Tetrachloroethane	0.47	U	1.0	0.47	ug/L			09/29/23 18:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	10	1.1	ug/L			09/29/23 18:32	1
1,1,2-Trichloroethane	0.41	U	1.0	0.41	ug/L			09/29/23 18:32	1
1,1-Dichloroethane	0.64	U	1.0	0.64	ug/L			09/29/23 18:32	1
1,1-Dichloroethene	**0.81**	**I**	1.0	0.74	ug/L			09/29/23 18:32	1
1,2,4-Trichlorobenzene	1.8	U	5.0	1.8	ug/L			09/29/23 18:32	1
1,2-Dibromo-3-Chloropropane	0.67	U	5.0	0.67	ug/L			09/29/23 18:32	1
1,2-Dibromoethane (EDB)	1.0	U	5.0	1.0	ug/L			09/29/23 18:32	1
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			09/29/23 18:32	1
1,2-Dichloroethane	0.37	U	1.0	0.37	ug/L			09/29/23 18:32	1
1,2-Dichloropropane	0.56	U	5.0	0.56	ug/L			09/29/23 18:32	1
1,3-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			09/29/23 18:32	1
1,4-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			09/29/23 18:32	1
2-Butanone (MEK)	8.3	U	50	8.3	ug/L			09/29/23 18:32	1
2-Hexanone	7.4	U	50	7.4	ug/L			09/29/23 18:32	1
4-Methyl-2-pentanone	7.5	U	50	7.5	ug/L			09/29/23 18:32	1
Acetone	3.1	U	100	3.1	ug/L			09/29/23 18:32	1
Benzene	0.46	U	1.0	0.46	ug/L			09/29/23 18:32	1
Bromodichloromethane	0.55	U	1.0	0.55	ug/L			09/29/23 18:32	1
Bromoform	0.63	U	5.0	0.63	ug/L			09/29/23 18:32	1
Bromomethane	1.4	U	5.0	1.4	ug/L			09/29/23 18:32	1
Carbon disulfide	**2.6**	**I**	5.0	0.78	ug/L			09/29/23 18:32	1
Carbon tetrachloride	0.90	U	5.0	0.90	ug/L			09/29/23 18:32	1
Chlorobenzene	0.46	U	1.0	0.46	ug/L			09/29/23 18:32	1
Chloroethane	2.0	U	10	2.0	ug/L			09/29/23 18:32	1
Chloroform	0.46	U	1.0	0.46	ug/L			09/29/23 18:32	1
Chloromethane	2.0	U	10	2.0	ug/L			09/29/23 18:32	1
cis-1,3-Dichloropropene	1.1	U	5.0	1.1	ug/L			09/29/23 18:32	1

Client Sample ID: LC34-DPT0933-025.0-20230925

Lab Sample ID: 670-27487-10

Date Collected: 09/25/23 12:15

Matrix: Water

Date Received: 09/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	1.3	U	5.0	1.3	ug/L			09/29/23 18:32	1
Dibromochloromethane	0.55	U	5.0	0.55	ug/L			09/29/23 18:32	1
Dichlorodifluoromethane	0.79	U	1.0	0.79	ug/L			09/29/23 18:32	1
Ethylbenzene	0.39	U	1.0	0.39	ug/L			09/29/23 18:32	1
Isopropylbenzene	0.59	U	1.0	0.59	ug/L			09/29/23 18:32	1
m,p-Xylenes	1.2	U	10	1.2	ug/L			09/29/23 18:32	1
Methyl acetate	4.0	U	20	4.0	ug/L			09/29/23 18:32	1
Methyl tert-butyl ether	1.4	U	5.0	1.4	ug/L			09/29/23 18:32	1
Methylene Chloride	1.7	U	5.0	1.7	ug/L			09/29/23 18:32	1
o-Xylene	0.50	U	1.0	0.50	ug/L			09/29/23 18:32	1
Styrene	0.62	U	1.0	0.62	ug/L			09/29/23 18:32	1
Tetrachloroethene	0.66	U	1.0	0.66	ug/L			09/29/23 18:32	1
Toluene	0.48	U	1.0	0.48	ug/L			09/29/23 18:32	1
trans-1,2-Dichloroethene	**8.8**		1.0	0.37	ug/L			09/29/23 18:32	1
trans-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			09/29/23 18:32	1
Trichloroethene	0.79	U	5.0	0.79	ug/L			09/29/23 18:32	1
Trichlorofluoromethane	0.56	U	1.0	0.56	ug/L			09/29/23 18:32	1
Xylenes, Total	1.2	U	10	1.2	ug/L			09/29/23 18:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*63 - 144*		*09/29/23 18:32*	*1*
4-Bromofluorobenzene (Surr)	*100*		*74 - 124*		*09/29/23 18:32*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 131*		*09/29/23 18:32*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*09/29/23 18:32*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**850**		10	4.6	ug/L			10/02/23 15:58	10
Vinyl chloride	**170**		20	4.3	ug/L			10/02/23 15:58	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*63 - 144*		*10/02/23 15:58*	*10*
4-Bromofluorobenzene (Surr)	*101*		*74 - 124*		*10/02/23 15:58*	*10*
Dibromofluoromethane (Surr)	*101*		*75 - 131*		*10/02/23 15:58*	*10*
Toluene-d8 (Surr)	*101*		*80 - 120*		*10/02/23 15:58*	*10*

Client Sample ID: LC34-DPT0933-034.0-20230925

Lab Sample ID: 670-27487-11

Date Collected: 09/25/23 12:35

Matrix: Water

Date Received: 09/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.59	U	5.0	0.59	ug/L			09/29/23 18:53	1
1,1,2,2-Tetrachloroethane	0.47	U	1.0	0.47	ug/L			09/29/23 18:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	10	1.1	ug/L			09/29/23 18:53	1
1,1,2-Trichloroethane	0.41	U	1.0	0.41	ug/L			09/29/23 18:53	1
1,1-Dichloroethane	0.64	U	1.0	0.64	ug/L			09/29/23 18:53	1
1,1-Dichloroethene	0.74	U	1.0	0.74	ug/L			09/29/23 18:53	1
1,2,4-Trichlorobenzene	1.8	U	5.0	1.8	ug/L			09/29/23 18:53	1
1,2-Dibromo-3-Chloropropane	0.67	U	5.0	0.67	ug/L			09/29/23 18:53	1
1,2-Dibromoethane (EDB)	1.0	U	5.0	1.0	ug/L			09/29/23 18:53	1

Client Sample ID: LC34-DPT0933-034.0-20230925
Date Collected: 09/25/23 12:35
Date Received: 09/27/23 08:00

Lab Sample ID: 670-27487-11
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			09/29/23 18:53	1
1,2-Dichloroethane	0.37	U	1.0	0.37	ug/L			09/29/23 18:53	1
1,2-Dichloropropane	0.56	U	5.0	0.56	ug/L			09/29/23 18:53	1
1,3-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			09/29/23 18:53	1
1,4-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			09/29/23 18:53	1
2-Butanone (MEK)	8.3	U	50	8.3	ug/L			09/29/23 18:53	1
2-Hexanone	7.4	U	50	7.4	ug/L			09/29/23 18:53	1
4-Methyl-2-pentanone	7.5	U	50	7.5	ug/L			09/29/23 18:53	1
Acetone	3.1	U	100	3.1	ug/L			09/29/23 18:53	1
Benzene	0.46	U	1.0	0.46	ug/L			09/29/23 18:53	1
Bromodichloromethane	0.55	U	1.0	0.55	ug/L			09/29/23 18:53	1
Bromoform	0.63	U	5.0	0.63	ug/L			09/29/23 18:53	1
Bromomethane	1.4	U	5.0	1.4	ug/L			09/29/23 18:53	1
Carbon disulfide	0.78	U	5.0	0.78	ug/L			09/29/23 18:53	1
Carbon tetrachloride	0.90	U	5.0	0.90	ug/L			09/29/23 18:53	1
Chlorobenzene	0.46	U	1.0	0.46	ug/L			09/29/23 18:53	1
Chloroethane	2.0	U	10	2.0	ug/L			09/29/23 18:53	1
Chloroform	0.46	U	1.0	0.46	ug/L			09/29/23 18:53	1
Chloromethane	2.0	U	10	2.0	ug/L			09/29/23 18:53	1
cis-1,3-Dichloropropene	1.1	U	5.0	1.1	ug/L			09/29/23 18:53	1
Cyclohexane	1.3	U	5.0	1.3	ug/L			09/29/23 18:53	1
Dibromochloromethane	0.55	U	5.0	0.55	ug/L			09/29/23 18:53	1
Dichlorodifluoromethane	0.79	U	1.0	0.79	ug/L			09/29/23 18:53	1
Ethylbenzene	0.39	U	1.0	0.39	ug/L			09/29/23 18:53	1
Isopropylbenzene	0.59	U	1.0	0.59	ug/L			09/29/23 18:53	1
m,p-Xylenes	1.2	U	10	1.2	ug/L			09/29/23 18:53	1
Methyl acetate	4.0	U	20	4.0	ug/L			09/29/23 18:53	1
Methyl tert-butyl ether	1.4	U	5.0	1.4	ug/L			09/29/23 18:53	1
Methylene Chloride	1.7	U	5.0	1.7	ug/L			09/29/23 18:53	1
o-Xylene	0.50	U	1.0	0.50	ug/L			09/29/23 18:53	1
Styrene	0.62	U	1.0	0.62	ug/L			09/29/23 18:53	1
Tetrachloroethene	0.66	U	1.0	0.66	ug/L			09/29/23 18:53	1
Toluene	0.48	U	1.0	0.48	ug/L			09/29/23 18:53	1
trans-1,2-Dichloroethene	**0.46**	**I**	1.0	0.37	ug/L			09/29/23 18:53	1
trans-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			09/29/23 18:53	1
Trichloroethene	0.79	U	5.0	0.79	ug/L			09/29/23 18:53	1
Trichlorofluoromethane	0.56	U	1.0	0.56	ug/L			09/29/23 18:53	1
Xylenes, Total	1.2	U	10	1.2	ug/L			09/29/23 18:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*63 - 144*		*09/29/23 18:53*	*1*
4-Bromofluorobenzene (Surr)	*98*		*74 - 124*		*09/29/23 18:53*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 131*		*09/29/23 18:53*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*09/29/23 18:53*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**2.0**		1.0	0.46	ug/L			10/02/23 12:13	1
Vinyl chloride	0.43	U	2.0	0.43	ug/L			10/02/23 12:13	1

Client Sample ID: LC34-DPT0933-034.0-20230925

Lab Sample ID: 670-27487-11

Date Collected: 09/25/23 12:35

Matrix: Water

Date Received: 09/27/23 08:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*63 - 144*		*10/02/23 12:13*	*1*
4-Bromofluorobenzene (Surr)	*100*		*74 - 124*		*10/02/23 12:13*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 131*		*10/02/23 12:13*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*10/02/23 12:13*	*1*

Client Sample ID: LC34-DPT0933-038.0-20230925

Lab Sample ID: 670-27487-12

Date Collected: 09/25/23 12:55

Matrix: Water

Date Received: 09/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.59	U	5.0	0.59	ug/L			09/29/23 19:13	1
1,1,2,2-Tetrachloroethane	0.47	U	1.0	0.47	ug/L			09/29/23 19:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	10	1.1	ug/L			09/29/23 19:13	1
1,1,2-Trichloroethane	0.41	U	1.0	0.41	ug/L			09/29/23 19:13	1
1,1-Dichloroethane	0.64	U	1.0	0.64	ug/L			09/29/23 19:13	1
1,1-Dichloroethene	0.74	U	1.0	0.74	ug/L			09/29/23 19:13	1
1,2,4-Trichlorobenzene	1.8	U	5.0	1.8	ug/L			09/29/23 19:13	1
1,2-Dibromo-3-Chloropropane	0.67	U	5.0	0.67	ug/L			09/29/23 19:13	1
1,2-Dibromoethane (EDB)	1.0	U	5.0	1.0	ug/L			09/29/23 19:13	1
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			09/29/23 19:13	1
1,2-Dichloroethane	0.37	U	1.0	0.37	ug/L			09/29/23 19:13	1
1,2-Dichloropropane	0.56	U	5.0	0.56	ug/L			09/29/23 19:13	1
1,3-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			09/29/23 19:13	1
1,4-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			09/29/23 19:13	1
2-Butanone (MEK)	8.3	U	50	8.3	ug/L			09/29/23 19:13	1
2-Hexanone	7.4	U	50	7.4	ug/L			09/29/23 19:13	1
4-Methyl-2-pentanone	7.5	U	50	7.5	ug/L			09/29/23 19:13	1
Acetone	3.1	U	100	3.1	ug/L			09/29/23 19:13	1
Benzene	0.46	U	1.0	0.46	ug/L			09/29/23 19:13	1
Bromodichloromethane	0.55	U	1.0	0.55	ug/L			09/29/23 19:13	1
Bromoform	0.63	U	5.0	0.63	ug/L			09/29/23 19:13	1
Bromomethane	1.4	U	5.0	1.4	ug/L			09/29/23 19:13	1
Carbon disulfide	0.78	U	5.0	0.78	ug/L			09/29/23 19:13	1
Carbon tetrachloride	0.90	U	5.0	0.90	ug/L			09/29/23 19:13	1
Chlorobenzene	0.46	U	1.0	0.46	ug/L			09/29/23 19:13	1
Chloroethane	2.0	U	10	2.0	ug/L			09/29/23 19:13	1
Chloroform	0.46	U	1.0	0.46	ug/L			09/29/23 19:13	1
Chloromethane	2.0	U	10	2.0	ug/L			09/29/23 19:13	1
cis-1,3-Dichloropropene	1.1	U	5.0	1.1	ug/L			09/29/23 19:13	1
Cyclohexane	1.3	U	5.0	1.3	ug/L			09/29/23 19:13	1
Dibromochloromethane	0.55	U	5.0	0.55	ug/L			09/29/23 19:13	1
Dichlorodifluoromethane	0.79	U	1.0	0.79	ug/L			09/29/23 19:13	1
Ethylbenzene	0.39	U	1.0	0.39	ug/L			09/29/23 19:13	1
Isopropylbenzene	0.59	U	1.0	0.59	ug/L			09/29/23 19:13	1
m,p-Xylenes	1.2	U	10	1.2	ug/L			09/29/23 19:13	1
Methyl acetate	4.0	U	20	4.0	ug/L			09/29/23 19:13	1
Methyl tert-butyl ether	1.4	U	5.0	1.4	ug/L			09/29/23 19:13	1
Methylene Chloride	1.7	U	5.0	1.7	ug/L			09/29/23 19:13	1
o-Xylene	0.50	U	1.0	0.50	ug/L			09/29/23 19:13	1

Client Sample ID: LC34-DPT0933-038.0-20230925

Lab Sample ID: 670-27487-12

Date Collected: 09/25/23 12:55

Matrix: Water

Date Received: 09/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.62	U	1.0	0.62	ug/L			09/29/23 19:13	1
Tetrachloroethene	0.66	U	1.0	0.66	ug/L			09/29/23 19:13	1
Toluene	0.48	U	1.0	0.48	ug/L			09/29/23 19:13	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			09/29/23 19:13	1
trans-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			09/29/23 19:13	1
Trichloroethene	0.79	U	5.0	0.79	ug/L			09/29/23 19:13	1
Trichlorofluoromethane	0.56	U	1.0	0.56	ug/L			09/29/23 19:13	1
Xylenes, Total	1.2	U	10	1.2	ug/L			09/29/23 19:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*63 - 144*		*09/29/23 19:13*	*1*
4-Bromofluorobenzene (Surr)	*99*		*74 - 124*		*09/29/23 19:13*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 131*		*09/29/23 19:13*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*09/29/23 19:13*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	0.46	U	1.0	0.46	ug/L			10/02/23 12:33	1
Vinyl chloride	0.43	U	2.0	0.43	ug/L			10/02/23 12:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*63 - 144*		*10/02/23 12:33*	*1*
4-Bromofluorobenzene (Surr)	*100*		*74 - 124*		*10/02/23 12:33*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 131*		*10/02/23 12:33*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*10/02/23 12:33*	*1*

Client Sample ID: LC34-DPT0934-008.0-20230925

Lab Sample ID: 670-27487-13

Date Collected: 09/25/23 14:25

Matrix: Water

Date Received: 09/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.59	U	5.0	0.59	ug/L			09/29/23 19:34	1
1,1,2,2-Tetrachloroethane	0.47	U	1.0	0.47	ug/L			09/29/23 19:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	10	1.1	ug/L			09/29/23 19:34	1
1,1,2-Trichloroethane	0.41	U	1.0	0.41	ug/L			09/29/23 19:34	1
1,1-Dichloroethane	0.64	U	1.0	0.64	ug/L			09/29/23 19:34	1
1,1-Dichloroethene	0.74	U	1.0	0.74	ug/L			09/29/23 19:34	1
1,2,4-Trichlorobenzene	1.8	U	5.0	1.8	ug/L			09/29/23 19:34	1
1,2-Dibromo-3-Chloropropane	0.67	U	5.0	0.67	ug/L			09/29/23 19:34	1
1,2-Dibromoethane (EDB)	1.0	U	5.0	1.0	ug/L			09/29/23 19:34	1
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			09/29/23 19:34	1
1,2-Dichloroethane	0.37	U	1.0	0.37	ug/L			09/29/23 19:34	1
1,2-Dichloropropane	0.56	U	5.0	0.56	ug/L			09/29/23 19:34	1
1,3-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			09/29/23 19:34	1
1,4-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			09/29/23 19:34	1
2-Butanone (MEK)	8.3	U	50	8.3	ug/L			09/29/23 19:34	1
2-Hexanone	7.4	U	50	7.4	ug/L			09/29/23 19:34	1
4-Methyl-2-pentanone	7.5	U	50	7.5	ug/L			09/29/23 19:34	1
Acetone	3.1	U	100	3.1	ug/L			09/29/23 19:34	1
Benzene	0.46	U	1.0	0.46	ug/L			09/29/23 19:34	1

Client Sample ID: LC34-DPT0934-008.0-20230925

Lab Sample ID: 670-27487-13

Date Collected: 09/25/23 14:25

Matrix: Water

Date Received: 09/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	0.55	U	1.0	0.55	ug/L			09/29/23 19:34	1
Bromoform	0.63	U	5.0	0.63	ug/L			09/29/23 19:34	1
Bromomethane	1.4	U	5.0	1.4	ug/L			09/29/23 19:34	1
Carbon disulfide	0.78	U	5.0	0.78	ug/L			09/29/23 19:34	1
Carbon tetrachloride	0.90	U	5.0	0.90	ug/L			09/29/23 19:34	1
Chlorobenzene	0.46	U	1.0	0.46	ug/L			09/29/23 19:34	1
Chloroethane	2.0	U	10	2.0	ug/L			09/29/23 19:34	1
Chloroform	0.46	U	1.0	0.46	ug/L			09/29/23 19:34	1
Chloromethane	2.0	U	10	2.0	ug/L			09/29/23 19:34	1
cis-1,2-Dichloroethene	**40**		1.0	0.46	ug/L			09/29/23 19:34	1
cis-1,3-Dichloropropene	1.1	U	5.0	1.1	ug/L			09/29/23 19:34	1
Cyclohexane	1.3	U	5.0	1.3	ug/L			09/29/23 19:34	1
Dibromochloromethane	0.55	U	5.0	0.55	ug/L			09/29/23 19:34	1
Dichlorodifluoromethane	0.79	U	1.0	0.79	ug/L			09/29/23 19:34	1
Ethylbenzene	0.39	U	1.0	0.39	ug/L			09/29/23 19:34	1
Isopropylbenzene	0.59	U	1.0	0.59	ug/L			09/29/23 19:34	1
m,p-Xylenes	1.2	U	10	1.2	ug/L			09/29/23 19:34	1
Methyl acetate	4.0	U	20	4.0	ug/L			09/29/23 19:34	1
Methyl tert-butyl ether	1.4	U	5.0	1.4	ug/L			09/29/23 19:34	1
Methylene Chloride	1.7	U	5.0	1.7	ug/L			09/29/23 19:34	1
o-Xylene	0.50	U	1.0	0.50	ug/L			09/29/23 19:34	1
Styrene	0.62	U	1.0	0.62	ug/L			09/29/23 19:34	1
Tetrachloroethene	0.66	U	1.0	0.66	ug/L			09/29/23 19:34	1
Toluene	0.48	U	1.0	0.48	ug/L			09/29/23 19:34	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			09/29/23 19:34	1
trans-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			09/29/23 19:34	1
Trichloroethene	0.79	U	5.0	0.79	ug/L			09/29/23 19:34	1
Trichlorofluoromethane	0.56	U	1.0	0.56	ug/L			09/29/23 19:34	1
Vinyl chloride	**55**		2.0	0.43	ug/L			09/29/23 19:34	1
Xylenes, Total	1.2	U	10	1.2	ug/L			09/29/23 19:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*63 - 144*		*09/29/23 19:34*	*1*
4-Bromofluorobenzene (Surr)	*98*		*74 - 124*		*09/29/23 19:34*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 131*		*09/29/23 19:34*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*09/29/23 19:34*	*1*

Client Sample ID: LC34-DPT0934-013.0-20230925

Lab Sample ID: 670-27487-14

Date Collected: 09/25/23 14:40

Matrix: Water

Date Received: 09/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.59	U	5.0	0.59	ug/L			09/29/23 19:54	1
1,1,2,2-Tetrachloroethane	0.47	U	1.0	0.47	ug/L			09/29/23 19:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	10	1.1	ug/L			09/29/23 19:54	1
1,1,2-Trichloroethane	0.41	U	1.0	0.41	ug/L			09/29/23 19:54	1
1,1-Dichloroethane	0.64	U	1.0	0.64	ug/L			09/29/23 19:54	1
1,1-Dichloroethene	0.74	U	1.0	0.74	ug/L			09/29/23 19:54	1
1,2,4-Trichlorobenzene	1.8	U	5.0	1.8	ug/L			09/29/23 19:54	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34

Job ID: 670-27487-1

Client Sample ID: LC34-DPT0934-013.0-20230925
Date Collected: 09/25/23 14:40
Date Received: 09/27/23 08:00

Lab Sample ID: 670-27487-14
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	0.67	U	5.0	0.67	ug/L			09/29/23 19:54	1
1,2-Dibromoethane (EDB)	1.0	U	5.0	1.0	ug/L			09/29/23 19:54	1
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			09/29/23 19:54	1
1,2-Dichloroethane	0.37	U	1.0	0.37	ug/L			09/29/23 19:54	1
1,2-Dichloropropane	0.56	U	5.0	0.56	ug/L			09/29/23 19:54	1
1,3-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			09/29/23 19:54	1
1,4-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			09/29/23 19:54	1
2-Butanone (MEK)	8.3	U	50	8.3	ug/L			09/29/23 19:54	1
2-Hexanone	7.4	U	50	7.4	ug/L			09/29/23 19:54	1
4-Methyl-2-pentanone	7.5	U	50	7.5	ug/L			09/29/23 19:54	1
Acetone	3.1	U	100	3.1	ug/L			09/29/23 19:54	1
Benzene	0.46	U	1.0	0.46	ug/L			09/29/23 19:54	1
Bromodichloromethane	0.55	U	1.0	0.55	ug/L			09/29/23 19:54	1
Bromoform	0.63	U	5.0	0.63	ug/L			09/29/23 19:54	1
Bromomethane	1.4	U	5.0	1.4	ug/L			09/29/23 19:54	1
Carbon disulfide	0.78	U	5.0	0.78	ug/L			09/29/23 19:54	1
Carbon tetrachloride	0.90	U	5.0	0.90	ug/L			09/29/23 19:54	1
Chlorobenzene	0.46	U	1.0	0.46	ug/L			09/29/23 19:54	1
Chloroethane	2.0	U	10	2.0	ug/L			09/29/23 19:54	1
Chloroform	0.46	U	1.0	0.46	ug/L			09/29/23 19:54	1
Chloromethane	2.0	U	10	2.0	ug/L			09/29/23 19:54	1
cis-1,2-Dichloroethene	**63**		1.0	0.46	ug/L			09/29/23 19:54	1
cis-1,3-Dichloropropene	1.1	U	5.0	1.1	ug/L			09/29/23 19:54	1
Cyclohexane	1.3	U	5.0	1.3	ug/L			09/29/23 19:54	1
Dibromochloromethane	0.55	U	5.0	0.55	ug/L			09/29/23 19:54	1
Dichlorodifluoromethane	0.79	U	1.0	0.79	ug/L			09/29/23 19:54	1
Ethylbenzene	0.39	U	1.0	0.39	ug/L			09/29/23 19:54	1
Isopropylbenzene	0.59	U	1.0	0.59	ug/L			09/29/23 19:54	1
m,p-Xylenes	1.2	U	10	1.2	ug/L			09/29/23 19:54	1
Methyl acetate	4.0	U	20	4.0	ug/L			09/29/23 19:54	1
Methyl tert-butyl ether	1.4	U	5.0	1.4	ug/L			09/29/23 19:54	1
Methylene Chloride	1.7	U	5.0	1.7	ug/L			09/29/23 19:54	1
o-Xylene	0.50	U	1.0	0.50	ug/L			09/29/23 19:54	1
Styrene	0.62	U	1.0	0.62	ug/L			09/29/23 19:54	1
Tetrachloroethene	0.66	U	1.0	0.66	ug/L			09/29/23 19:54	1
Toluene	0.48	U	1.0	0.48	ug/L			09/29/23 19:54	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			09/29/23 19:54	1
trans-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			09/29/23 19:54	1
Trichloroethene	0.79	U	5.0	0.79	ug/L			09/29/23 19:54	1
Trichlorofluoromethane	0.56	U	1.0	0.56	ug/L			09/29/23 19:54	1
Vinyl chloride	**97**		2.0	0.43	ug/L			09/29/23 19:54	1
Xylenes, Total	1.2	U	10	1.2	ug/L			09/29/23 19:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*63 - 144*		*09/29/23 19:54*	*1*
4-Bromofluorobenzene (Surr)	*99*		*74 - 124*		*09/29/23 19:54*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 131*		*09/29/23 19:54*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*09/29/23 19:54*	*1*

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34

Job ID: 670-27487-1

Client Sample ID: LC34-DPT0934-018.0-20230925

Date Collected: 09/25/23 15:00
Date Received: 09/27/23 08:00

Lab Sample ID: 670-27487-15

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.59	U	5.0	0.59	ug/L			09/29/23 20:15	1
1,1,2,2-Tetrachloroethane	0.47	U	1.0	0.47	ug/L			09/29/23 20:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	10	1.1	ug/L			09/29/23 20:15	1
1,1,2-Trichloroethane	0.41	U	1.0	0.41	ug/L			09/29/23 20:15	1
1,1-Dichloroethane	0.64	U	1.0	0.64	ug/L			09/29/23 20:15	1
1,1-Dichloroethene	0.74	U	1.0	0.74	ug/L			09/29/23 20:15	1
1,2,4-Trichlorobenzene	1.8	U	5.0	1.8	ug/L			09/29/23 20:15	1
1,2-Dibromo-3-Chloropropane	0.67	U	5.0	0.67	ug/L			09/29/23 20:15	1
1,2-Dibromoethane (EDB)	1.0	U	5.0	1.0	ug/L			09/29/23 20:15	1
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			09/29/23 20:15	1
1,2-Dichloroethane	0.37	U	1.0	0.37	ug/L			09/29/23 20:15	1
1,2-Dichloropropane	0.56	U	5.0	0.56	ug/L			09/29/23 20:15	1
1,3-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			09/29/23 20:15	1
1,4-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			09/29/23 20:15	1
2-Butanone (MEK)	8.3	U	50	8.3	ug/L			09/29/23 20:15	1
2-Hexanone	7.4	U	50	7.4	ug/L			09/29/23 20:15	1
4-Methyl-2-pentanone	7.5	U	50	7.5	ug/L			09/29/23 20:15	1
Acetone	3.1	U	100	3.1	ug/L			09/29/23 20:15	1
Benzene	0.46	U	1.0	0.46	ug/L			09/29/23 20:15	1
Bromodichloromethane	0.55	U	1.0	0.55	ug/L			09/29/23 20:15	1
Bromoform	0.63	U	5.0	0.63	ug/L			09/29/23 20:15	1
Bromomethane	1.4	U	5.0	1.4	ug/L			09/29/23 20:15	1
Carbon disulfide	0.78	U	5.0	0.78	ug/L			09/29/23 20:15	1
Carbon tetrachloride	0.90	U	5.0	0.90	ug/L			09/29/23 20:15	1
Chlorobenzene	0.46	U	1.0	0.46	ug/L			09/29/23 20:15	1
Chloroethane	2.0	U	10	2.0	ug/L			09/29/23 20:15	1
Chloroform	0.46	U	1.0	0.46	ug/L			09/29/23 20:15	1
Chloromethane	2.0	U	10	2.0	ug/L			09/29/23 20:15	1
cis-1,2-Dichloroethene	**95**		1.0	0.46	ug/L			09/29/23 20:15	1
cis-1,3-Dichloropropene	1.1	U	5.0	1.1	ug/L			09/29/23 20:15	1
Cyclohexane	1.3	U	5.0	1.3	ug/L			09/29/23 20:15	1
Dibromochloromethane	0.55	U	5.0	0.55	ug/L			09/29/23 20:15	1
Dichlorodifluoromethane	0.79	U	1.0	0.79	ug/L			09/29/23 20:15	1
Ethylbenzene	0.39	U	1.0	0.39	ug/L			09/29/23 20:15	1
Isopropylbenzene	0.59	U	1.0	0.59	ug/L			09/29/23 20:15	1
m,p-Xylenes	1.2	U	10	1.2	ug/L			09/29/23 20:15	1
Methyl acetate	4.0	U	20	4.0	ug/L			09/29/23 20:15	1
Methyl tert-butyl ether	1.4	U	5.0	1.4	ug/L			09/29/23 20:15	1
Methylene Chloride	1.7	U	5.0	1.7	ug/L			09/29/23 20:15	1
o-Xylene	0.50	U	1.0	0.50	ug/L			09/29/23 20:15	1
Styrene	0.62	U	1.0	0.62	ug/L			09/29/23 20:15	1
Tetrachloroethene	0.66	U	1.0	0.66	ug/L			09/29/23 20:15	1
Toluene	0.48	U	1.0	0.48	ug/L			09/29/23 20:15	1
trans-1,2-Dichloroethene	**0.47**	**I**	1.0	0.37	ug/L			09/29/23 20:15	1
trans-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			09/29/23 20:15	1
Trichloroethene	0.79	U	5.0	0.79	ug/L			09/29/23 20:15	1
Trichlorofluoromethane	0.56	U	1.0	0.56	ug/L			09/29/23 20:15	1
Vinyl chloride	**120**		2.0	0.43	ug/L			09/29/23 20:15	1
Xylenes, Total	1.2	U	10	1.2	ug/L			09/29/23 20:15	1

Client Sample ID: LC34-DPT0934-018.0-20230925

Lab Sample ID: 670-27487-15

Date Collected: 09/25/23 15:00

Matrix: Water

Date Received: 09/27/23 08:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*63 - 144*		*09/29/23 20:15*	*1*
4-Bromofluorobenzene (Surr)	*102*		*74 - 124*		*09/29/23 20:15*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 131*		*09/29/23 20:15*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*09/29/23 20:15*	*1*

Client Sample ID: LC34-DPT0934-025.0-20230925

Lab Sample ID: 670-27487-16

Date Collected: 09/25/23 15:20

Matrix: Water

Date Received: 09/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.59	U	5.0	0.59	ug/L			09/29/23 20:35	1
1,1,2,2-Tetrachloroethane	0.47	U	1.0	0.47	ug/L			09/29/23 20:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	10	1.1	ug/L			09/29/23 20:35	1
1,1,2-Trichloroethane	0.41	U	1.0	0.41	ug/L			09/29/23 20:35	1
1,1-Dichloroethane	0.64	U	1.0	0.64	ug/L			09/29/23 20:35	1
1,1-Dichloroethene	0.74	U	1.0	0.74	ug/L			09/29/23 20:35	1
1,2,4-Trichlorobenzene	1.8	U	5.0	1.8	ug/L			09/29/23 20:35	1
1,2-Dibromo-3-Chloropropane	0.67	U	5.0	0.67	ug/L			09/29/23 20:35	1
1,2-Dibromoethane (EDB)	1.0	U	5.0	1.0	ug/L			09/29/23 20:35	1
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			09/29/23 20:35	1
1,2-Dichloroethane	0.37	U	1.0	0.37	ug/L			09/29/23 20:35	1
1,2-Dichloropropane	0.56	U	5.0	0.56	ug/L			09/29/23 20:35	1
1,3-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			09/29/23 20:35	1
1,4-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			09/29/23 20:35	1
2-Butanone (MEK)	8.3	U	50	8.3	ug/L			09/29/23 20:35	1
2-Hexanone	7.4	U	50	7.4	ug/L			09/29/23 20:35	1
4-Methyl-2-pentanone	7.5	U	50	7.5	ug/L			09/29/23 20:35	1
Acetone	3.1	U	100	3.1	ug/L			09/29/23 20:35	1
Benzene	0.46	U	1.0	0.46	ug/L			09/29/23 20:35	1
Bromodichloromethane	0.55	U	1.0	0.55	ug/L			09/29/23 20:35	1
Bromoform	0.63	U	5.0	0.63	ug/L			09/29/23 20:35	1
Bromomethane	1.4	U	5.0	1.4	ug/L			09/29/23 20:35	1
Carbon disulfide	0.78	U	5.0	0.78	ug/L			09/29/23 20:35	1
Carbon tetrachloride	0.90	U	5.0	0.90	ug/L			09/29/23 20:35	1
Chlorobenzene	0.46	U	1.0	0.46	ug/L			09/29/23 20:35	1
Chloroethane	2.0	U	10	2.0	ug/L			09/29/23 20:35	1
Chloroform	0.46	U	1.0	0.46	ug/L			09/29/23 20:35	1
Chloromethane	2.0	U	10	2.0	ug/L			09/29/23 20:35	1
cis-1,2-Dichloroethene	**63**		1.0	0.46	ug/L			09/29/23 20:35	1
cis-1,3-Dichloropropene	1.1	U	5.0	1.1	ug/L			09/29/23 20:35	1
Cyclohexane	1.3	U	5.0	1.3	ug/L			09/29/23 20:35	1
Dibromochloromethane	0.55	U	5.0	0.55	ug/L			09/29/23 20:35	1
Dichlorodifluoromethane	0.79	U	1.0	0.79	ug/L			09/29/23 20:35	1
Ethylbenzene	0.39	U	1.0	0.39	ug/L			09/29/23 20:35	1
Isopropylbenzene	0.59	U	1.0	0.59	ug/L			09/29/23 20:35	1
m,p-Xylenes	1.2	U	10	1.2	ug/L			09/29/23 20:35	1
Methyl acetate	4.0	U	20	4.0	ug/L			09/29/23 20:35	1
Methyl tert-butyl ether	1.4	U	5.0	1.4	ug/L			09/29/23 20:35	1
Methylene Chloride	1.7	U	5.0	1.7	ug/L			09/29/23 20:35	1

Client Sample ID: LC34-DPT0934-025.0-20230925

Lab Sample ID: 670-27487-16

Date Collected: 09/25/23 15:20

Matrix: Water

Date Received: 09/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	0.50	U	1.0	0.50	ug/L			09/29/23 20:35	1
Styrene	0.62	U	1.0	0.62	ug/L			09/29/23 20:35	1
Tetrachloroethene	0.66	U	1.0	0.66	ug/L			09/29/23 20:35	1
Toluene	0.48	U	1.0	0.48	ug/L			09/29/23 20:35	1
trans-1,2-Dichloroethene	**1.5**		1.0	0.37	ug/L			09/29/23 20:35	1
trans-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			09/29/23 20:35	1
Trichloroethene	0.79	U	5.0	0.79	ug/L			09/29/23 20:35	1
Trichlorofluoromethane	0.56	U	1.0	0.56	ug/L			09/29/23 20:35	1
Vinyl chloride	**51**		2.0	0.43	ug/L			09/29/23 20:35	1
Xylenes, Total	1.2	U	10	1.2	ug/L			09/29/23 20:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*63 - 144*		*09/29/23 20:35*	*1*
4-Bromofluorobenzene (Surr)	*102*		*74 - 124*		*09/29/23 20:35*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 131*		*09/29/23 20:35*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*09/29/23 20:35*	*1*

Client Sample ID: LC34-DPT0934-034.0-20230925

Lab Sample ID: 670-27487-17

Date Collected: 09/25/23 15:40

Matrix: Water

Date Received: 09/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.59	U	5.0	0.59	ug/L			09/29/23 20:56	1
1,1,2,2-Tetrachloroethane	0.47	U	1.0	0.47	ug/L			09/29/23 20:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	10	1.1	ug/L			09/29/23 20:56	1
1,1,2-Trichloroethane	0.41	U	1.0	0.41	ug/L			09/29/23 20:56	1
1,1-Dichloroethane	0.64	U	1.0	0.64	ug/L			09/29/23 20:56	1
1,1-Dichloroethene	0.74	U	1.0	0.74	ug/L			09/29/23 20:56	1
1,2,4-Trichlorobenzene	1.8	U	5.0	1.8	ug/L			09/29/23 20:56	1
1,2-Dibromo-3-Chloropropane	0.67	U	5.0	0.67	ug/L			09/29/23 20:56	1
1,2-Dibromoethane (EDB)	1.0	U	5.0	1.0	ug/L			09/29/23 20:56	1
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			09/29/23 20:56	1
1,2-Dichloroethane	0.37	U	1.0	0.37	ug/L			09/29/23 20:56	1
1,2-Dichloropropane	0.56	U	5.0	0.56	ug/L			09/29/23 20:56	1
1,3-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			09/29/23 20:56	1
1,4-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			09/29/23 20:56	1
2-Butanone (MEK)	8.3	U	50	8.3	ug/L			09/29/23 20:56	1
2-Hexanone	7.4	U	50	7.4	ug/L			09/29/23 20:56	1
4-Methyl-2-pentanone	7.5	U	50	7.5	ug/L			09/29/23 20:56	1
Acetone	3.1	U	100	3.1	ug/L			09/29/23 20:56	1
Benzene	0.46	U	1.0	0.46	ug/L			09/29/23 20:56	1
Bromodichloromethane	0.55	U	1.0	0.55	ug/L			09/29/23 20:56	1
Bromoform	0.63	U	5.0	0.63	ug/L			09/29/23 20:56	1
Bromomethane	1.4	U	5.0	1.4	ug/L			09/29/23 20:56	1
Carbon disulfide	**0.81**	**I**	5.0	0.78	ug/L			09/29/23 20:56	1
Carbon tetrachloride	0.90	U	5.0	0.90	ug/L			09/29/23 20:56	1
Chlorobenzene	0.46	U	1.0	0.46	ug/L			09/29/23 20:56	1
Chloroethane	2.0	U	10	2.0	ug/L			09/29/23 20:56	1
Chloroform	0.46	U	1.0	0.46	ug/L			09/29/23 20:56	1

Client Sample ID: LC34-DPT0934-034.0-20230925

Lab Sample ID: 670-27487-17

Date Collected: 09/25/23 15:40

Matrix: Water

Date Received: 09/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	2.0	U	10	2.0	ug/L			09/29/23 20:56	1
cis-1,2-Dichloroethene	**5.1**		1.0	0.46	ug/L			09/29/23 20:56	1
cis-1,3-Dichloropropene	1.1	U	5.0	1.1	ug/L			09/29/23 20:56	1
Cyclohexane	1.3	U	5.0	1.3	ug/L			09/29/23 20:56	1
Dibromochloromethane	0.55	U	5.0	0.55	ug/L			09/29/23 20:56	1
Dichlorodifluoromethane	0.79	U	1.0	0.79	ug/L			09/29/23 20:56	1
Ethylbenzene	0.39	U	1.0	0.39	ug/L			09/29/23 20:56	1
Isopropylbenzene	0.59	U	1.0	0.59	ug/L			09/29/23 20:56	1
m,p-Xylenes	1.2	U	10	1.2	ug/L			09/29/23 20:56	1
Methyl acetate	4.0	U	20	4.0	ug/L			09/29/23 20:56	1
Methyl tert-butyl ether	1.4	U	5.0	1.4	ug/L			09/29/23 20:56	1
Methylene Chloride	1.7	U	5.0	1.7	ug/L			09/29/23 20:56	1
o-Xylene	0.50	U	1.0	0.50	ug/L			09/29/23 20:56	1
Styrene	0.62	U	1.0	0.62	ug/L			09/29/23 20:56	1
Tetrachloroethene	0.66	U	1.0	0.66	ug/L			09/29/23 20:56	1
Toluene	0.48	U	1.0	0.48	ug/L			09/29/23 20:56	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			09/29/23 20:56	1
trans-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			09/29/23 20:56	1
Trichloroethene	0.79	U	5.0	0.79	ug/L			09/29/23 20:56	1
Trichlorofluoromethane	0.56	U	1.0	0.56	ug/L			09/29/23 20:56	1
Vinyl chloride	**13**		2.0	0.43	ug/L			09/29/23 20:56	1
Xylenes, Total	1.2	U	10	1.2	ug/L			09/29/23 20:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*63 - 144*		*09/29/23 20:56*	*1*
4-Bromofluorobenzene (Surr)	*100*		*74 - 124*		*09/29/23 20:56*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 131*		*09/29/23 20:56*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*09/29/23 20:56*	*1*

Client Sample ID: LC34-DPT0934-038.0-20230925

Lab Sample ID: 670-27487-18

Date Collected: 09/25/23 16:00

Matrix: Water

Date Received: 09/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.59	U	5.0	0.59	ug/L			09/29/23 21:16	1
1,1,2,2-Tetrachloroethane	0.47	U	1.0	0.47	ug/L			09/29/23 21:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	10	1.1	ug/L			09/29/23 21:16	1
1,1,2-Trichloroethane	0.41	U	1.0	0.41	ug/L			09/29/23 21:16	1
1,1-Dichloroethane	0.64	U	1.0	0.64	ug/L			09/29/23 21:16	1
1,1-Dichloroethene	0.74	U	1.0	0.74	ug/L			09/29/23 21:16	1
1,2,4-Trichlorobenzene	1.8	U	5.0	1.8	ug/L			09/29/23 21:16	1
1,2-Dibromo-3-Chloropropane	0.67	U	5.0	0.67	ug/L			09/29/23 21:16	1
1,2-Dibromoethane (EDB)	1.0	U	5.0	1.0	ug/L			09/29/23 21:16	1
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			09/29/23 21:16	1
1,2-Dichloroethane	0.37	U	1.0	0.37	ug/L			09/29/23 21:16	1
1,2-Dichloropropane	0.56	U	5.0	0.56	ug/L			09/29/23 21:16	1
1,3-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			09/29/23 21:16	1
1,4-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			09/29/23 21:16	1
2-Butanone (MEK)	8.3	U	50	8.3	ug/L			09/29/23 21:16	1

Client Sample ID: LC34-DPT0934-038.0-20230925
Date Collected: 09/25/23 16:00
Date Received: 09/27/23 08:00

Lab Sample ID: 670-27487-18
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	7.4	U	50	7.4	ug/L			09/29/23 21:16	1
4-Methyl-2-pentanone	7.5	U	50	7.5	ug/L			09/29/23 21:16	1
Acetone	3.1	U	100	3.1	ug/L			09/29/23 21:16	1
Benzene	0.46	U	1.0	0.46	ug/L			09/29/23 21:16	1
Bromodichloromethane	0.55	U	1.0	0.55	ug/L			09/29/23 21:16	1
Bromoform	0.63	U	5.0	0.63	ug/L			09/29/23 21:16	1
Bromomethane	1.4	U	5.0	1.4	ug/L			09/29/23 21:16	1
Carbon disulfide	**0.80**	**I**	5.0	0.78	ug/L			09/29/23 21:16	1
Carbon tetrachloride	0.90	U	5.0	0.90	ug/L			09/29/23 21:16	1
Chlorobenzene	0.46	U	1.0	0.46	ug/L			09/29/23 21:16	1
Chloroethane	2.0	U	10	2.0	ug/L			09/29/23 21:16	1
Chloroform	0.46	U	1.0	0.46	ug/L			09/29/23 21:16	1
Chloromethane	2.0	U	10	2.0	ug/L			09/29/23 21:16	1
cis-1,3-Dichloropropene	1.1	U	5.0	1.1	ug/L			09/29/23 21:16	1
Cyclohexane	1.3	U	5.0	1.3	ug/L			09/29/23 21:16	1
Dibromochloromethane	0.55	U	5.0	0.55	ug/L			09/29/23 21:16	1
Dichlorodifluoromethane	0.79	U	1.0	0.79	ug/L			09/29/23 21:16	1
Ethylbenzene	0.39	U	1.0	0.39	ug/L			09/29/23 21:16	1
Isopropylbenzene	0.59	U	1.0	0.59	ug/L			09/29/23 21:16	1
m,p-Xylenes	1.2	U	10	1.2	ug/L			09/29/23 21:16	1
Methyl acetate	4.0	U	20	4.0	ug/L			09/29/23 21:16	1
Methyl tert-butyl ether	1.4	U	5.0	1.4	ug/L			09/29/23 21:16	1
Methylene Chloride	1.7	U	5.0	1.7	ug/L			09/29/23 21:16	1
o-Xylene	0.50	U	1.0	0.50	ug/L			09/29/23 21:16	1
Styrene	0.62	U	1.0	0.62	ug/L			09/29/23 21:16	1
Tetrachloroethene	0.66	U	1.0	0.66	ug/L			09/29/23 21:16	1
Toluene	0.48	U	1.0	0.48	ug/L			09/29/23 21:16	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			09/29/23 21:16	1
trans-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			09/29/23 21:16	1
Trichloroethene	0.79	U	5.0	0.79	ug/L			09/29/23 21:16	1
Trichlorofluoromethane	0.56	U	1.0	0.56	ug/L			09/29/23 21:16	1
Vinyl chloride	0.43	U	2.0	0.43	ug/L			09/29/23 21:16	1
Xylenes, Total	1.2	U	10	1.2	ug/L			09/29/23 21:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*63 - 144*		*09/29/23 21:16*	*1*
4-Bromofluorobenzene (Surr)	*101*		*74 - 124*		*09/29/23 21:16*	*1*
Dibromofluoromethane (Surr)	*104*		*75 - 131*		*09/29/23 21:16*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*09/29/23 21:16*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	0.46	U	1.0	0.46	ug/L			10/02/23 12:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*63 - 144*		*10/02/23 12:54*	*1*
4-Bromofluorobenzene (Surr)	*102*		*74 - 124*		*10/02/23 12:54*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 131*		*10/02/23 12:54*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*10/02/23 12:54*	*1*

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34

Job ID: 670-27487-1

Client Sample ID: LC34-DPT0935-008.0-20230926
Date Collected: 09/26/23 07:35
Date Received: 09/27/23 08:00

Lab Sample ID: 670-27487-19
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.59	U	5.0	0.59	ug/L			09/29/23 21:37	1
1,1,2,2-Tetrachloroethane	0.47	U	1.0	0.47	ug/L			09/29/23 21:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	10	1.1	ug/L			09/29/23 21:37	1
1,1,2-Trichloroethane	0.41	U	1.0	0.41	ug/L			09/29/23 21:37	1
1,1-Dichloroethane	0.64	U	1.0	0.64	ug/L			09/29/23 21:37	1
1,1-Dichloroethene	0.74	U	1.0	0.74	ug/L			09/29/23 21:37	1
1,2,4-Trichlorobenzene	1.8	U	5.0	1.8	ug/L			09/29/23 21:37	1
1,2-Dibromo-3-Chloropropane	0.67	U	5.0	0.67	ug/L			09/29/23 21:37	1
1,2-Dibromoethane (EDB)	1.0	U	5.0	1.0	ug/L			09/29/23 21:37	1
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			09/29/23 21:37	1
1,2-Dichloroethane	0.37	U	1.0	0.37	ug/L			09/29/23 21:37	1
1,2-Dichloropropane	0.56	U	5.0	0.56	ug/L			09/29/23 21:37	1
1,3-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			09/29/23 21:37	1
1,4-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			09/29/23 21:37	1
2-Butanone (MEK)	8.3	U	50	8.3	ug/L			09/29/23 21:37	1
2-Hexanone	7.4	U	50	7.4	ug/L			09/29/23 21:37	1
4-Methyl-2-pentanone	7.5	U	50	7.5	ug/L			09/29/23 21:37	1
Acetone	3.1	U	100	3.1	ug/L			09/29/23 21:37	1
Benzene	0.46	U	1.0	0.46	ug/L			09/29/23 21:37	1
Bromodichloromethane	0.55	U	1.0	0.55	ug/L			09/29/23 21:37	1
Bromoform	0.63	U	5.0	0.63	ug/L			09/29/23 21:37	1
Bromomethane	1.4	U	5.0	1.4	ug/L			09/29/23 21:37	1
Carbon disulfide	0.78	U	5.0	0.78	ug/L			09/29/23 21:37	1
Carbon tetrachloride	0.90	U	5.0	0.90	ug/L			09/29/23 21:37	1
Chlorobenzene	0.46	U	1.0	0.46	ug/L			09/29/23 21:37	1
Chloroethane	2.0	U	10	2.0	ug/L			09/29/23 21:37	1
Chloroform	0.46	U	1.0	0.46	ug/L			09/29/23 21:37	1
Chloromethane	2.0	U	10	2.0	ug/L			09/29/23 21:37	1
cis-1,2-Dichloroethene	**19**		1.0	0.46	ug/L			09/29/23 21:37	1
cis-1,3-Dichloropropene	1.1	U	5.0	1.1	ug/L			09/29/23 21:37	1
Cyclohexane	1.3	U	5.0	1.3	ug/L			09/29/23 21:37	1
Dibromochloromethane	0.55	U	5.0	0.55	ug/L			09/29/23 21:37	1
Dichlorodifluoromethane	0.79	U	1.0	0.79	ug/L			09/29/23 21:37	1
Ethylbenzene	0.39	U	1.0	0.39	ug/L			09/29/23 21:37	1
Isopropylbenzene	0.59	U	1.0	0.59	ug/L			09/29/23 21:37	1
m,p-Xylenes	1.2	U	10	1.2	ug/L			09/29/23 21:37	1
Methyl acetate	4.0	U	20	4.0	ug/L			09/29/23 21:37	1
Methyl tert-butyl ether	1.4	U	5.0	1.4	ug/L			09/29/23 21:37	1
Methylene Chloride	1.7	U	5.0	1.7	ug/L			09/29/23 21:37	1
o-Xylene	0.50	U	1.0	0.50	ug/L			09/29/23 21:37	1
Styrene	0.62	U	1.0	0.62	ug/L			09/29/23 21:37	1
Tetrachloroethene	0.66	U	1.0	0.66	ug/L			09/29/23 21:37	1
Toluene	0.48	U	1.0	0.48	ug/L			09/29/23 21:37	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			09/29/23 21:37	1
trans-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			09/29/23 21:37	1
Trichloroethene	0.79	U	5.0	0.79	ug/L			09/29/23 21:37	1
Trichlorofluoromethane	0.56	U	1.0	0.56	ug/L			09/29/23 21:37	1
Vinyl chloride	**25**		2.0	0.43	ug/L			09/29/23 21:37	1
Xylenes, Total	1.2	U	10	1.2	ug/L			09/29/23 21:37	1

Client Sample ID: LC34-DPT0935-008.0-20230926

Lab Sample ID: 670-27487-19

Date Collected: 09/26/23 07:35

Matrix: Water

Date Received: 09/27/23 08:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*63 - 144*		*09/29/23 21:37*	*1*
4-Bromofluorobenzene (Surr)	*99*		*74 - 124*		*09/29/23 21:37*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 131*		*09/29/23 21:37*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*09/29/23 21:37*	*1*

Client Sample ID: LC34-DPT0935-013.0-20230926

Lab Sample ID: 670-27487-20

Date Collected: 09/26/23 07:50

Matrix: Water

Date Received: 09/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.59	U	5.0	0.59	ug/L			09/29/23 21:58	1
1,1,2,2-Tetrachloroethane	0.47	U	1.0	0.47	ug/L			09/29/23 21:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	10	1.1	ug/L			09/29/23 21:58	1
1,1,2-Trichloroethane	0.41	U	1.0	0.41	ug/L			09/29/23 21:58	1
1,1-Dichloroethane	0.64	U	1.0	0.64	ug/L			09/29/23 21:58	1
1,1-Dichloroethene	0.74	U	1.0	0.74	ug/L			09/29/23 21:58	1
1,2,4-Trichlorobenzene	1.8	U	5.0	1.8	ug/L			09/29/23 21:58	1
1,2-Dibromo-3-Chloropropane	0.67	U	5.0	0.67	ug/L			09/29/23 21:58	1
1,2-Dibromoethane (EDB)	1.0	U	5.0	1.0	ug/L			09/29/23 21:58	1
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			09/29/23 21:58	1
1,2-Dichloroethane	0.37	U	1.0	0.37	ug/L			09/29/23 21:58	1
1,2-Dichloropropane	0.56	U	5.0	0.56	ug/L			09/29/23 21:58	1
1,3-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			09/29/23 21:58	1
1,4-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			09/29/23 21:58	1
2-Butanone (MEK)	8.3	U	50	8.3	ug/L			09/29/23 21:58	1
2-Hexanone	7.4	U	50	7.4	ug/L			09/29/23 21:58	1
4-Methyl-2-pentanone	7.5	U	50	7.5	ug/L			09/29/23 21:58	1
Acetone	3.1	U	100	3.1	ug/L			09/29/23 21:58	1
Benzene	0.46	U	1.0	0.46	ug/L			09/29/23 21:58	1
Bromodichloromethane	0.55	U	1.0	0.55	ug/L			09/29/23 21:58	1
Bromoform	0.63	U	5.0	0.63	ug/L			09/29/23 21:58	1
Bromomethane	1.4	U	5.0	1.4	ug/L			09/29/23 21:58	1
Carbon disulfide	0.78	U	5.0	0.78	ug/L			09/29/23 21:58	1
Carbon tetrachloride	0.90	U	5.0	0.90	ug/L			09/29/23 21:58	1
Chlorobenzene	0.46	U	1.0	0.46	ug/L			09/29/23 21:58	1
Chloroethane	2.0	U	10	2.0	ug/L			09/29/23 21:58	1
Chloroform	0.46	U	1.0	0.46	ug/L			09/29/23 21:58	1
Chloromethane	2.0	U	10	2.0	ug/L			09/29/23 21:58	1
cis-1,2-Dichloroethene	**29**		1.0	0.46	ug/L			09/29/23 21:58	1
cis-1,3-Dichloropropene	1.1	U	5.0	1.1	ug/L			09/29/23 21:58	1
Cyclohexane	1.3	U	5.0	1.3	ug/L			09/29/23 21:58	1
Dibromochloromethane	0.55	U	5.0	0.55	ug/L			09/29/23 21:58	1
Dichlorodifluoromethane	0.79	U	1.0	0.79	ug/L			09/29/23 21:58	1
Ethylbenzene	0.39	U	1.0	0.39	ug/L			09/29/23 21:58	1
Isopropylbenzene	0.59	U	1.0	0.59	ug/L			09/29/23 21:58	1
m,p-Xylenes	1.2	U	10	1.2	ug/L			09/29/23 21:58	1
Methyl acetate	4.0	U	20	4.0	ug/L			09/29/23 21:58	1
Methyl tert-butyl ether	1.4	U	5.0	1.4	ug/L			09/29/23 21:58	1
Methylene Chloride	1.7	U	5.0	1.7	ug/L			09/29/23 21:58	1

Client Sample ID: LC34-DPT0935-013.0-20230926

Lab Sample ID: 670-27487-20

Date Collected: 09/26/23 07:50

Matrix: Water

Date Received: 09/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	0.50	U	1.0	0.50	ug/L			09/29/23 21:58	1
Styrene	0.62	U	1.0	0.62	ug/L			09/29/23 21:58	1
Tetrachloroethene	0.66	U	1.0	0.66	ug/L			09/29/23 21:58	1
Toluene	0.48	U	1.0	0.48	ug/L			09/29/23 21:58	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			09/29/23 21:58	1
trans-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			09/29/23 21:58	1
Trichloroethene	0.79	U	5.0	0.79	ug/L			09/29/23 21:58	1
Trichlorofluoromethane	0.56	U	1.0	0.56	ug/L			09/29/23 21:58	1
Vinyl chloride	**44**		2.0	0.43	ug/L			09/29/23 21:58	1
Xylenes, Total	1.2	U	10	1.2	ug/L			09/29/23 21:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*63 - 144*		*09/29/23 21:58*	*1*
4-Bromofluorobenzene (Surr)	*99*		*74 - 124*		*09/29/23 21:58*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 131*		*09/29/23 21:58*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*09/29/23 21:58*	*1*

Client Sample ID: LC34-DPT0935-018.0-20230926

Lab Sample ID: 670-27487-21

Date Collected: 09/26/23 08:05

Matrix: Water

Date Received: 09/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.59	U	5.0	0.59	ug/L			09/29/23 16:50	1
1,1,2,2-Tetrachloroethane	0.47	U	1.0	0.47	ug/L			09/29/23 16:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	10	1.1	ug/L			09/29/23 16:50	1
1,1,2-Trichloroethane	0.41	U	1.0	0.41	ug/L			09/29/23 16:50	1
1,1-Dichloroethane	0.64	U	1.0	0.64	ug/L			09/29/23 16:50	1
1,1-Dichloroethene	0.74	U	1.0	0.74	ug/L			09/29/23 16:50	1
1,2,4-Trichlorobenzene	1.8	U	5.0	1.8	ug/L			09/29/23 16:50	1
1,2-Dibromo-3-Chloropropane	0.67	U	5.0	0.67	ug/L			09/29/23 16:50	1
1,2-Dibromoethane (EDB)	1.0	U	5.0	1.0	ug/L			09/29/23 16:50	1
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			09/29/23 16:50	1
1,2-Dichloroethane	0.37	U	1.0	0.37	ug/L			09/29/23 16:50	1
1,2-Dichloropropane	0.56	U	5.0	0.56	ug/L			09/29/23 16:50	1
1,3-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			09/29/23 16:50	1
1,4-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			09/29/23 16:50	1
2-Butanone (MEK)	8.3	U	50	8.3	ug/L			09/29/23 16:50	1
2-Hexanone	7.4	U	50	7.4	ug/L			09/29/23 16:50	1
4-Methyl-2-pentanone	7.5	U	50	7.5	ug/L			09/29/23 16:50	1
Acetone	3.1	U	100	3.1	ug/L			09/29/23 16:50	1
Benzene	0.46	U	1.0	0.46	ug/L			09/29/23 16:50	1
Bromodichloromethane	0.55	U	1.0	0.55	ug/L			09/29/23 16:50	1
Bromoform	0.63	U	5.0	0.63	ug/L			09/29/23 16:50	1
Bromomethane	1.4	U	5.0	1.4	ug/L			09/29/23 16:50	1
Carbon disulfide	0.78	U	5.0	0.78	ug/L			09/29/23 16:50	1
Carbon tetrachloride	0.90	U	5.0	0.90	ug/L			09/29/23 16:50	1
Chlorobenzene	0.46	U	1.0	0.46	ug/L			09/29/23 16:50	1
Chloroethane	2.0	U	10	2.0	ug/L			09/29/23 16:50	1
Chloroform	0.46	U	1.0	0.46	ug/L			09/29/23 16:50	1

Client Sample ID: LC34-DPT0935-018.0-20230926

Lab Sample ID: 670-27487-21

Date Collected: 09/26/23 08:05

Matrix: Water

Date Received: 09/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	2.0	U	10	2.0	ug/L			09/29/23 16:50	1
cis-1,2-Dichloroethene	**97**		1.0	0.46	ug/L			09/29/23 16:50	1
cis-1,3-Dichloropropene	1.1	U	5.0	1.1	ug/L			09/29/23 16:50	1
Cyclohexane	1.3	U	5.0	1.3	ug/L			09/29/23 16:50	1
Dibromochloromethane	0.55	U	5.0	0.55	ug/L			09/29/23 16:50	1
Dichlorodifluoromethane	0.79	U	1.0	0.79	ug/L			09/29/23 16:50	1
Ethylbenzene	0.39	U	1.0	0.39	ug/L			09/29/23 16:50	1
Isopropylbenzene	0.59	U	1.0	0.59	ug/L			09/29/23 16:50	1
m,p-Xylenes	1.2	U	10	1.2	ug/L			09/29/23 16:50	1
Methyl acetate	4.0	U	20	4.0	ug/L			09/29/23 16:50	1
Methyl tert-butyl ether	1.4	U	5.0	1.4	ug/L			09/29/23 16:50	1
Methylene Chloride	1.7	U	5.0	1.7	ug/L			09/29/23 16:50	1
o-Xylene	0.50	U	1.0	0.50	ug/L			09/29/23 16:50	1
Styrene	0.62	U	1.0	0.62	ug/L			09/29/23 16:50	1
Tetrachloroethene	0.66	U	1.0	0.66	ug/L			09/29/23 16:50	1
Toluene	0.48	U	1.0	0.48	ug/L			09/29/23 16:50	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			09/29/23 16:50	1
trans-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			09/29/23 16:50	1
Trichloroethene	0.79	U	5.0	0.79	ug/L			09/29/23 16:50	1
Trichlorofluoromethane	0.56	U	1.0	0.56	ug/L			09/29/23 16:50	1
Vinyl chloride	**83**		2.0	0.43	ug/L			09/29/23 16:50	1
Xylenes, Total	1.2	U	10	1.2	ug/L			09/29/23 16:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*63 - 144*		*09/29/23 16:50*	*1*
4-Bromofluorobenzene (Surr)	*100*		*74 - 124*		*09/29/23 16:50*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 131*		*09/29/23 16:50*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*09/29/23 16:50*	*1*

Client Sample ID: LC34-DPT0935-025.0-20230926

Lab Sample ID: 670-27487-22

Date Collected: 09/26/23 08:20

Matrix: Water

Date Received: 09/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.59	U	5.0	0.59	ug/L			09/29/23 17:10	1
1,1,2,2-Tetrachloroethane	0.47	U	1.0	0.47	ug/L			09/29/23 17:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	10	1.1	ug/L			09/29/23 17:10	1
1,1,2-Trichloroethane	0.41	U	1.0	0.41	ug/L			09/29/23 17:10	1
1,1-Dichloroethane	0.64	U	1.0	0.64	ug/L			09/29/23 17:10	1
1,1-Dichloroethene	0.74	U	1.0	0.74	ug/L			09/29/23 17:10	1
1,2,4-Trichlorobenzene	1.8	U	5.0	1.8	ug/L			09/29/23 17:10	1
1,2-Dibromo-3-Chloropropane	0.67	U	5.0	0.67	ug/L			09/29/23 17:10	1
1,2-Dibromoethane (EDB)	1.0	U	5.0	1.0	ug/L			09/29/23 17:10	1
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			09/29/23 17:10	1
1,2-Dichloroethane	0.37	U	1.0	0.37	ug/L			09/29/23 17:10	1
1,2-Dichloropropane	0.56	U	5.0	0.56	ug/L			09/29/23 17:10	1
1,3-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			09/29/23 17:10	1
1,4-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			09/29/23 17:10	1
2-Butanone (MEK)	8.3	U	50	8.3	ug/L			09/29/23 17:10	1

Client Sample ID: LC34-DPT0935-025.0-20230926

Lab Sample ID: 670-27487-22

Date Collected: 09/26/23 08:20

Matrix: Water

Date Received: 09/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	7.4	U	50	7.4	ug/L			09/29/23 17:10	1
4-Methyl-2-pentanone	7.5	U	50	7.5	ug/L			09/29/23 17:10	1
Acetone	3.1	U	100	3.1	ug/L			09/29/23 17:10	1
Benzene	0.46	U	1.0	0.46	ug/L			09/29/23 17:10	1
Bromodichloromethane	0.55	U	1.0	0.55	ug/L			09/29/23 17:10	1
Bromoform	0.63	U	5.0	0.63	ug/L			09/29/23 17:10	1
Bromomethane	1.4	U	5.0	1.4	ug/L			09/29/23 17:10	1
Carbon disulfide	0.78	U	5.0	0.78	ug/L			09/29/23 17:10	1
Carbon tetrachloride	0.90	U	5.0	0.90	ug/L			09/29/23 17:10	1
Chlorobenzene	0.46	U	1.0	0.46	ug/L			09/29/23 17:10	1
Chloroethane	2.0	U	10	2.0	ug/L			09/29/23 17:10	1
Chloroform	0.46	U	1.0	0.46	ug/L			09/29/23 17:10	1
Chloromethane	2.0	U	10	2.0	ug/L			09/29/23 17:10	1
cis-1,2-Dichloroethene	**80**		1.0	0.46	ug/L			09/29/23 17:10	1
cis-1,3-Dichloropropene	1.1	U	5.0	1.1	ug/L			09/29/23 17:10	1
Cyclohexane	1.3	U	5.0	1.3	ug/L			09/29/23 17:10	1
Dibromochloromethane	0.55	U	5.0	0.55	ug/L			09/29/23 17:10	1
Dichlorodifluoromethane	0.79	U	1.0	0.79	ug/L			09/29/23 17:10	1
Ethylbenzene	0.39	U	1.0	0.39	ug/L			09/29/23 17:10	1
Isopropylbenzene	0.59	U	1.0	0.59	ug/L			09/29/23 17:10	1
m,p-Xylenes	1.2	U	10	1.2	ug/L			09/29/23 17:10	1
Methyl acetate	4.0	U	20	4.0	ug/L			09/29/23 17:10	1
Methyl tert-butyl ether	1.4	U	5.0	1.4	ug/L			09/29/23 17:10	1
Methylene Chloride	1.7	U	5.0	1.7	ug/L			09/29/23 17:10	1
o-Xylene	0.50	U	1.0	0.50	ug/L			09/29/23 17:10	1
Styrene	0.62	U	1.0	0.62	ug/L			09/29/23 17:10	1
Tetrachloroethene	0.66	U	1.0	0.66	ug/L			09/29/23 17:10	1
Toluene	0.48	U	1.0	0.48	ug/L			09/29/23 17:10	1
trans-1,2-Dichloroethene	**1.3**		1.0	0.37	ug/L			09/29/23 17:10	1
trans-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			09/29/23 17:10	1
Trichloroethene	0.79	U	5.0	0.79	ug/L			09/29/23 17:10	1
Trichlorofluoromethane	0.56	U	1.0	0.56	ug/L			09/29/23 17:10	1
Vinyl chloride	**73**		2.0	0.43	ug/L			09/29/23 17:10	1
Xylenes, Total	1.2	U	10	1.2	ug/L			09/29/23 17:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*63 - 144*		*09/29/23 17:10*	*1*
4-Bromofluorobenzene (Surr)	*101*		*74 - 124*		*09/29/23 17:10*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 131*		*09/29/23 17:10*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*09/29/23 17:10*	*1*

Client Sample ID: LC34-DPT0935-034.0-20230926

Lab Sample ID: 670-27487-23

Date Collected: 09/26/23 08:40

Matrix: Water

Date Received: 09/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.59	U	5.0	0.59	ug/L			09/29/23 17:31	1
1,1,2,2-Tetrachloroethane	0.47	U	1.0	0.47	ug/L			09/29/23 17:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	10	1.1	ug/L			09/29/23 17:31	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34

Job ID: 670-27487-1

Client Sample ID: LC34-DPT0935-034.0-20230926
Date Collected: 09/26/23 08:40
Date Received: 09/27/23 08:00

Lab Sample ID: 670-27487-23
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	0.41	U	1.0	0.41	ug/L			09/29/23 17:31	1
1,1-Dichloroethane	0.64	U	1.0	0.64	ug/L			09/29/23 17:31	1
1,1-Dichloroethene	0.74	U	1.0	0.74	ug/L			09/29/23 17:31	1
1,2,4-Trichlorobenzene	1.8	U	5.0	1.8	ug/L			09/29/23 17:31	1
1,2-Dibromo-3-Chloropropane	0.67	U	5.0	0.67	ug/L			09/29/23 17:31	1
1,2-Dibromoethane (EDB)	1.0	U	5.0	1.0	ug/L			09/29/23 17:31	1
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			09/29/23 17:31	1
1,2-Dichloroethane	0.37	U	1.0	0.37	ug/L			09/29/23 17:31	1
1,2-Dichloropropane	0.56	U	5.0	0.56	ug/L			09/29/23 17:31	1
1,3-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			09/29/23 17:31	1
1,4-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			09/29/23 17:31	1
2-Butanone (MEK)	8.3	U	50	8.3	ug/L			09/29/23 17:31	1
2-Hexanone	7.4	U	50	7.4	ug/L			09/29/23 17:31	1
4-Methyl-2-pentanone	7.5	U	50	7.5	ug/L			09/29/23 17:31	1
Acetone	3.1	U	100	3.1	ug/L			09/29/23 17:31	1
Benzene	0.46	U	1.0	0.46	ug/L			09/29/23 17:31	1
Bromodichloromethane	0.55	U	1.0	0.55	ug/L			09/29/23 17:31	1
Bromoform	0.63	U	5.0	0.63	ug/L			09/29/23 17:31	1
Bromomethane	1.4	U	5.0	1.4	ug/L			09/29/23 17:31	1
Carbon disulfide	0.78	U	5.0	0.78	ug/L			09/29/23 17:31	1
Carbon tetrachloride	0.90	U	5.0	0.90	ug/L			09/29/23 17:31	1
Chlorobenzene	0.46	U	1.0	0.46	ug/L			09/29/23 17:31	1
Chloroethane	2.0	U	10	2.0	ug/L			09/29/23 17:31	1
Chloroform	0.46	U	1.0	0.46	ug/L			09/29/23 17:31	1
Chloromethane	2.0	U	10	2.0	ug/L			09/29/23 17:31	1
cis-1,2-Dichloroethene	**66**		1.0	0.46	ug/L			09/29/23 17:31	1
cis-1,3-Dichloropropene	1.1	U	5.0	1.1	ug/L			09/29/23 17:31	1
Cyclohexane	1.3	U	5.0	1.3	ug/L			09/29/23 17:31	1
Dibromochloromethane	0.55	U	5.0	0.55	ug/L			09/29/23 17:31	1
Dichlorodifluoromethane	0.79	U	1.0	0.79	ug/L			09/29/23 17:31	1
Ethylbenzene	0.39	U	1.0	0.39	ug/L			09/29/23 17:31	1
Isopropylbenzene	0.59	U	1.0	0.59	ug/L			09/29/23 17:31	1
m,p-Xylenes	1.2	U	10	1.2	ug/L			09/29/23 17:31	1
Methyl acetate	4.0	U	20	4.0	ug/L			09/29/23 17:31	1
Methyl tert-butyl ether	1.4	U	5.0	1.4	ug/L			09/29/23 17:31	1
Methylene Chloride	1.7	U	5.0	1.7	ug/L			09/29/23 17:31	1
o-Xylene	0.50	U	1.0	0.50	ug/L			09/29/23 17:31	1
Styrene	0.62	U	1.0	0.62	ug/L			09/29/23 17:31	1
Tetrachloroethene	0.66	U	1.0	0.66	ug/L			09/29/23 17:31	1
Toluene	0.48	U	1.0	0.48	ug/L			09/29/23 17:31	1
trans-1,2-Dichloroethene	**0.79**	**I**	1.0	0.37	ug/L			09/29/23 17:31	1
trans-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			09/29/23 17:31	1
Trichloroethene	0.79	U	5.0	0.79	ug/L			09/29/23 17:31	1
Trichlorofluoromethane	0.56	U	1.0	0.56	ug/L			09/29/23 17:31	1
Vinyl chloride	**74**		2.0	0.43	ug/L			09/29/23 17:31	1
Xylenes, Total	1.2	U	10	1.2	ug/L			09/29/23 17:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*63 - 144*		*09/29/23 17:31*	*1*
4-Bromofluorobenzene (Surr)	*100*		*74 - 124*		*09/29/23 17:31*	*1*

Client Sample ID: LC34-DPT0935-034.0-20230926

Lab Sample ID: 670-27487-23

Date Collected: 09/26/23 08:40
Matrix: Water
Date Received: 09/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*101*		*75 - 131*		*09/29/23 17:31*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*09/29/23 17:31*	*1*

Client Sample ID: LC34-DPT0935-038.0-20230926

Lab Sample ID: 670-27487-24

Date Collected: 09/26/23 09:00
Matrix: Water
Date Received: 09/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.59	U	5.0	0.59	ug/L			09/29/23 17:51	1
1,1,2,2-Tetrachloroethane	0.47	U	1.0	0.47	ug/L			09/29/23 17:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	10	1.1	ug/L			09/29/23 17:51	1
1,1,2-Trichloroethane	0.41	U	1.0	0.41	ug/L			09/29/23 17:51	1
1,1-Dichloroethane	0.64	U	1.0	0.64	ug/L			09/29/23 17:51	1
1,1-Dichloroethene	0.74	U	1.0	0.74	ug/L			09/29/23 17:51	1
1,2,4-Trichlorobenzene	1.8	U	5.0	1.8	ug/L			09/29/23 17:51	1
1,2-Dibromo-3-Chloropropane	0.67	U	5.0	0.67	ug/L			09/29/23 17:51	1
1,2-Dibromoethane (EDB)	1.0	U	5.0	1.0	ug/L			09/29/23 17:51	1
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			09/29/23 17:51	1
1,2-Dichloroethane	0.37	U	1.0	0.37	ug/L			09/29/23 17:51	1
1,2-Dichloropropane	0.56	U	5.0	0.56	ug/L			09/29/23 17:51	1
1,3-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			09/29/23 17:51	1
1,4-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			09/29/23 17:51	1
2-Butanone (MEK)	8.3	U	50	8.3	ug/L			09/29/23 17:51	1
2-Hexanone	7.4	U	50	7.4	ug/L			09/29/23 17:51	1
4-Methyl-2-pentanone	7.5	U	50	7.5	ug/L			09/29/23 17:51	1
Acetone	3.1	U	100	3.1	ug/L			09/29/23 17:51	1
Benzene	0.46	U	1.0	0.46	ug/L			09/29/23 17:51	1
Bromodichloromethane	0.55	U	1.0	0.55	ug/L			09/29/23 17:51	1
Bromoform	0.63	U	5.0	0.63	ug/L			09/29/23 17:51	1
Bromomethane	1.4	U	5.0	1.4	ug/L			09/29/23 17:51	1
Carbon disulfide	0.78	U	5.0	0.78	ug/L			09/29/23 17:51	1
Carbon tetrachloride	0.90	U	5.0	0.90	ug/L			09/29/23 17:51	1
Chlorobenzene	0.46	U	1.0	0.46	ug/L			09/29/23 17:51	1
Chloroethane	2.0	U	10	2.0	ug/L			09/29/23 17:51	1
Chloroform	0.46	U	1.0	0.46	ug/L			09/29/23 17:51	1
Chloromethane	2.0	U	10	2.0	ug/L			09/29/23 17:51	1
cis-1,2-Dichloroethene	**9.4**		1.0	0.46	ug/L			09/29/23 17:51	1
cis-1,3-Dichloropropene	1.1	U	5.0	1.1	ug/L			09/29/23 17:51	1
Cyclohexane	1.3	U	5.0	1.3	ug/L			09/29/23 17:51	1
Dibromochloromethane	0.55	U	5.0	0.55	ug/L			09/29/23 17:51	1
Dichlorodifluoromethane	0.79	U	1.0	0.79	ug/L			09/29/23 17:51	1
Ethylbenzene	0.39	U	1.0	0.39	ug/L			09/29/23 17:51	1
Isopropylbenzene	0.59	U	1.0	0.59	ug/L			09/29/23 17:51	1
m,p-Xylenes	1.2	U	10	1.2	ug/L			09/29/23 17:51	1
Methyl acetate	4.0	U	20	4.0	ug/L			09/29/23 17:51	1
Methyl tert-butyl ether	1.4	U	5.0	1.4	ug/L			09/29/23 17:51	1
Methylene Chloride	1.7	U	5.0	1.7	ug/L			09/29/23 17:51	1
o-Xylene	0.50	U	1.0	0.50	ug/L			09/29/23 17:51	1

Client Sample ID: LC34-DPT0935-038.0-20230926

Lab Sample ID: 670-27487-24

Date Collected: 09/26/23 09:00

Matrix: Water

Date Received: 09/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.62	U	1.0	0.62	ug/L			09/29/23 17:51	1
Tetrachloroethene	0.66	U	1.0	0.66	ug/L			09/29/23 17:51	1
Toluene	0.48	U	1.0	0.48	ug/L			09/29/23 17:51	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			09/29/23 17:51	1
trans-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			09/29/23 17:51	1
Trichloroethene	0.79	U	5.0	0.79	ug/L			09/29/23 17:51	1
Trichlorofluoromethane	0.56	U	1.0	0.56	ug/L			09/29/23 17:51	1
Vinyl chloride	**4.6**		2.0	0.43	ug/L			09/29/23 17:51	1
Xylenes, Total	1.2	U	10	1.2	ug/L			09/29/23 17:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*63 - 144*		*09/29/23 17:51*	*1*
4-Bromofluorobenzene (Surr)	*101*		*74 - 124*		*09/29/23 17:51*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 131*		*09/29/23 17:51*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*09/29/23 17:51*	*1*

Client Sample ID: LC34-DPT0936-008.0-20230926

Lab Sample ID: 670-27487-25

Date Collected: 09/26/23 09:50

Matrix: Water

Date Received: 09/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.59	U	5.0	0.59	ug/L			09/29/23 18:11	1
1,1,2,2-Tetrachloroethane	0.47	U	1.0	0.47	ug/L			09/29/23 18:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	10	1.1	ug/L			09/29/23 18:11	1
1,1,2-Trichloroethane	0.41	U	1.0	0.41	ug/L			09/29/23 18:11	1
1,1-Dichloroethane	0.64	U	1.0	0.64	ug/L			09/29/23 18:11	1
1,1-Dichloroethene	0.74	U	1.0	0.74	ug/L			09/29/23 18:11	1
1,2,4-Trichlorobenzene	1.8	U	5.0	1.8	ug/L			09/29/23 18:11	1
1,2-Dibromo-3-Chloropropane	0.67	U	5.0	0.67	ug/L			09/29/23 18:11	1
1,2-Dibromoethane (EDB)	1.0	U	5.0	1.0	ug/L			09/29/23 18:11	1
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			09/29/23 18:11	1
1,2-Dichloroethane	0.37	U	1.0	0.37	ug/L			09/29/23 18:11	1
1,2-Dichloropropane	0.56	U	5.0	0.56	ug/L			09/29/23 18:11	1
1,3-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			09/29/23 18:11	1
1,4-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			09/29/23 18:11	1
2-Butanone (MEK)	8.3	U	50	8.3	ug/L			09/29/23 18:11	1
2-Hexanone	7.4	U	50	7.4	ug/L			09/29/23 18:11	1
4-Methyl-2-pentanone	7.5	U	50	7.5	ug/L			09/29/23 18:11	1
Acetone	3.1	U	100	3.1	ug/L			09/29/23 18:11	1
Benzene	0.46	U	1.0	0.46	ug/L			09/29/23 18:11	1
Bromodichloromethane	0.55	U	1.0	0.55	ug/L			09/29/23 18:11	1
Bromoform	0.63	U	5.0	0.63	ug/L			09/29/23 18:11	1
Bromomethane	1.4	U	5.0	1.4	ug/L			09/29/23 18:11	1
Carbon disulfide	0.78	U	5.0	0.78	ug/L			09/29/23 18:11	1
Carbon tetrachloride	0.90	U	5.0	0.90	ug/L			09/29/23 18:11	1
Chlorobenzene	0.46	U	1.0	0.46	ug/L			09/29/23 18:11	1
Chloroethane	2.0	U	10	2.0	ug/L			09/29/23 18:11	1
Chloroform	0.46	U	1.0	0.46	ug/L			09/29/23 18:11	1
Chloromethane	2.0	U	10	2.0	ug/L			09/29/23 18:11	1

Client Sample ID: LC34-DPT0936-008.0-20230926

Lab Sample ID: 670-27487-25

Date Collected: 09/26/23 09:50

Matrix: Water

Date Received: 09/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**23**		1.0	0.46	ug/L			09/29/23 18:11	1
cis-1,3-Dichloropropene	1.1	U	5.0	1.1	ug/L			09/29/23 18:11	1
Cyclohexane	1.3	U	5.0	1.3	ug/L			09/29/23 18:11	1
Dibromochloromethane	0.55	U	5.0	0.55	ug/L			09/29/23 18:11	1
Dichlorodifluoromethane	0.79	U	1.0	0.79	ug/L			09/29/23 18:11	1
Ethylbenzene	0.39	U	1.0	0.39	ug/L			09/29/23 18:11	1
Isopropylbenzene	0.59	U	1.0	0.59	ug/L			09/29/23 18:11	1
m,p-Xylenes	1.2	U	10	1.2	ug/L			09/29/23 18:11	1
Methyl acetate	4.0	U	20	4.0	ug/L			09/29/23 18:11	1
Methyl tert-butyl ether	1.4	U	5.0	1.4	ug/L			09/29/23 18:11	1
Methylene Chloride	1.7	U	5.0	1.7	ug/L			09/29/23 18:11	1
o-Xylene	0.50	U	1.0	0.50	ug/L			09/29/23 18:11	1
Styrene	0.62	U	1.0	0.62	ug/L			09/29/23 18:11	1
Tetrachloroethene	0.66	U	1.0	0.66	ug/L			09/29/23 18:11	1
Toluene	0.48	U	1.0	0.48	ug/L			09/29/23 18:11	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			09/29/23 18:11	1
trans-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			09/29/23 18:11	1
Trichloroethene	0.79	U	5.0	0.79	ug/L			09/29/23 18:11	1
Trichlorofluoromethane	0.56	U	1.0	0.56	ug/L			09/29/23 18:11	1
Vinyl chloride	**38**		2.0	0.43	ug/L			09/29/23 18:11	1
Xylenes, Total	1.2	U	10	1.2	ug/L			09/29/23 18:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*63 - 144*		*09/29/23 18:11*	*1*
4-Bromofluorobenzene (Surr)	*101*		*74 - 124*		*09/29/23 18:11*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 131*		*09/29/23 18:11*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*09/29/23 18:11*	*1*

Client Sample ID: LC34-DPT0936-013.0-20230926

Lab Sample ID: 670-27487-26

Date Collected: 09/26/23 10:05

Matrix: Water

Date Received: 09/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.59	U	5.0	0.59	ug/L			09/29/23 18:32	1
1,1,2,2-Tetrachloroethane	0.47	U	1.0	0.47	ug/L			09/29/23 18:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	10	1.1	ug/L			09/29/23 18:32	1
1,1,2-Trichloroethane	0.41	U	1.0	0.41	ug/L			09/29/23 18:32	1
1,1-Dichloroethane	0.64	U	1.0	0.64	ug/L			09/29/23 18:32	1
1,1-Dichloroethene	0.74	U	1.0	0.74	ug/L			09/29/23 18:32	1
1,2,4-Trichlorobenzene	1.8	U	5.0	1.8	ug/L			09/29/23 18:32	1
1,2-Dibromo-3-Chloropropane	0.67	U	5.0	0.67	ug/L			09/29/23 18:32	1
1,2-Dibromoethane (EDB)	1.0	U	5.0	1.0	ug/L			09/29/23 18:32	1
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			09/29/23 18:32	1
1,2-Dichloroethane	0.37	U	1.0	0.37	ug/L			09/29/23 18:32	1
1,2-Dichloropropane	0.56	U	5.0	0.56	ug/L			09/29/23 18:32	1
1,3-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			09/29/23 18:32	1
1,4-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			09/29/23 18:32	1
2-Butanone (MEK)	8.3	U	50	8.3	ug/L			09/29/23 18:32	1
2-Hexanone	7.4	U	50	7.4	ug/L			09/29/23 18:32	1

Client Sample ID: LC34-DPT0936-013.0-20230926
Date Collected: 09/26/23 10:05
Date Received: 09/27/23 08:00

Lab Sample ID: 670-27487-26
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone	7.5	U	50	7.5	ug/L			09/29/23 18:32	1
Acetone	3.1	U	100	3.1	ug/L			09/29/23 18:32	1
Benzene	0.46	U	1.0	0.46	ug/L			09/29/23 18:32	1
Bromodichloromethane	0.55	U	1.0	0.55	ug/L			09/29/23 18:32	1
Bromoform	0.63	U	5.0	0.63	ug/L			09/29/23 18:32	1
Bromomethane	1.4	U	5.0	1.4	ug/L			09/29/23 18:32	1
Carbon disulfide	0.78	U	5.0	0.78	ug/L			09/29/23 18:32	1
Carbon tetrachloride	0.90	U	5.0	0.90	ug/L			09/29/23 18:32	1
Chlorobenzene	0.46	U	1.0	0.46	ug/L			09/29/23 18:32	1
Chloroethane	2.0	U	10	2.0	ug/L			09/29/23 18:32	1
Chloroform	0.46	U	1.0	0.46	ug/L			09/29/23 18:32	1
Chloromethane	2.0	U	10	2.0	ug/L			09/29/23 18:32	1
cis-1,3-Dichloropropene	1.1	U	5.0	1.1	ug/L			09/29/23 18:32	1
Cyclohexane	1.3	U	5.0	1.3	ug/L			09/29/23 18:32	1
Dibromochloromethane	0.55	U	5.0	0.55	ug/L			09/29/23 18:32	1
Dichlorodifluoromethane	0.79	U	1.0	0.79	ug/L			09/29/23 18:32	1
Ethylbenzene	0.39	U	1.0	0.39	ug/L			09/29/23 18:32	1
Isopropylbenzene	0.59	U	1.0	0.59	ug/L			09/29/23 18:32	1
m,p-Xylenes	1.2	U	10	1.2	ug/L			09/29/23 18:32	1
Methyl acetate	4.0	U	20	4.0	ug/L			09/29/23 18:32	1
Methyl tert-butyl ether	1.4	U	5.0	1.4	ug/L			09/29/23 18:32	1
Methylene Chloride	1.7	U	5.0	1.7	ug/L			09/29/23 18:32	1
o-Xylene	0.50	U	1.0	0.50	ug/L			09/29/23 18:32	1
Styrene	0.62	U	1.0	0.62	ug/L			09/29/23 18:32	1
Tetrachloroethene	0.66	U	1.0	0.66	ug/L			09/29/23 18:32	1
Toluene	0.48	U	1.0	0.48	ug/L			09/29/23 18:32	1
trans-1,2-Dichloroethene	**1.2**		1.0	0.37	ug/L			09/29/23 18:32	1
trans-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			09/29/23 18:32	1
Trichloroethene	0.79	U	5.0	0.79	ug/L			09/29/23 18:32	1
Trichlorofluoromethane	0.56	U	1.0	0.56	ug/L			09/29/23 18:32	1
Xylenes, Total	1.2	U	10	1.2	ug/L			09/29/23 18:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*63 - 144*		*09/29/23 18:32*	*1*
4-Bromofluorobenzene (Surr)	*100*		*74 - 124*		*09/29/23 18:32*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 131*		*09/29/23 18:32*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*09/29/23 18:32*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**210**		5.0	2.3	ug/L			10/02/23 13:35	5
Vinyl chloride	**170**		10	2.1	ug/L			10/02/23 13:35	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*63 - 144*		*10/02/23 13:35*	*5*
4-Bromofluorobenzene (Surr)	*100*		*74 - 124*		*10/02/23 13:35*	*5*
Dibromofluoromethane (Surr)	*100*		*75 - 131*		*10/02/23 13:35*	*5*
Toluene-d8 (Surr)	*101*		*80 - 120*		*10/02/23 13:35*	*5*

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34

Job ID: 670-27487-1

Client Sample ID: LC34-DPT0936-018.0-20230926
Date Collected: 09/26/23 10:20
Date Received: 09/27/23 08:00

Lab Sample ID: 670-27487-27
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.59	U	5.0	0.59	ug/L			09/29/23 18:52	1
1,1,2,2-Tetrachloroethane	0.47	U	1.0	0.47	ug/L			09/29/23 18:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	10	1.1	ug/L			09/29/23 18:52	1
1,1,2-Trichloroethane	0.41	U	1.0	0.41	ug/L			09/29/23 18:52	1
1,1-Dichloroethane	0.64	U	1.0	0.64	ug/L			09/29/23 18:52	1
1,1-Dichloroethene	0.74	U	1.0	0.74	ug/L			09/29/23 18:52	1
1,2,4-Trichlorobenzene	1.8	U	5.0	1.8	ug/L			09/29/23 18:52	1
1,2-Dibromo-3-Chloropropane	0.67	U	5.0	0.67	ug/L			09/29/23 18:52	1
1,2-Dibromoethane (EDB)	1.0	U	5.0	1.0	ug/L			09/29/23 18:52	1
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			09/29/23 18:52	1
1,2-Dichloroethane	0.37	U	1.0	0.37	ug/L			09/29/23 18:52	1
1,2-Dichloropropane	0.56	U	5.0	0.56	ug/L			09/29/23 18:52	1
1,3-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			09/29/23 18:52	1
1,4-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			09/29/23 18:52	1
2-Butanone (MEK)	8.3	U	50	8.3	ug/L			09/29/23 18:52	1
2-Hexanone	7.4	U	50	7.4	ug/L			09/29/23 18:52	1
4-Methyl-2-pentanone	7.5	U	50	7.5	ug/L			09/29/23 18:52	1
Acetone	3.1	U	100	3.1	ug/L			09/29/23 18:52	1
Benzene	0.46	U	1.0	0.46	ug/L			09/29/23 18:52	1
Bromodichloromethane	0.55	U	1.0	0.55	ug/L			09/29/23 18:52	1
Bromoform	0.63	U	5.0	0.63	ug/L			09/29/23 18:52	1
Bromomethane	1.4	U	5.0	1.4	ug/L			09/29/23 18:52	1
Carbon disulfide	0.78	U	5.0	0.78	ug/L			09/29/23 18:52	1
Carbon tetrachloride	0.90	U	5.0	0.90	ug/L			09/29/23 18:52	1
Chlorobenzene	0.46	U	1.0	0.46	ug/L			09/29/23 18:52	1
Chloroethane	2.0	U	10	2.0	ug/L			09/29/23 18:52	1
Chloroform	0.46	U	1.0	0.46	ug/L			09/29/23 18:52	1
Chloromethane	2.0	U	10	2.0	ug/L			09/29/23 18:52	1
cis-1,3-Dichloropropene	1.1	U	5.0	1.1	ug/L			09/29/23 18:52	1
Cyclohexane	1.3	U	5.0	1.3	ug/L			09/29/23 18:52	1
Dibromochloromethane	0.55	U	5.0	0.55	ug/L			09/29/23 18:52	1
Dichlorodifluoromethane	0.79	U	1.0	0.79	ug/L			09/29/23 18:52	1
Ethylbenzene	0.39	U	1.0	0.39	ug/L			09/29/23 18:52	1
Isopropylbenzene	0.59	U	1.0	0.59	ug/L			09/29/23 18:52	1
m,p-Xylenes	1.2	U	10	1.2	ug/L			09/29/23 18:52	1
Methyl acetate	4.0	U	20	4.0	ug/L			09/29/23 18:52	1
Methyl tert-butyl ether	1.4	U	5.0	1.4	ug/L			09/29/23 18:52	1
Methylene Chloride	1.7	U	5.0	1.7	ug/L			09/29/23 18:52	1
o-Xylene	0.50	U	1.0	0.50	ug/L			09/29/23 18:52	1
Styrene	0.62	U	1.0	0.62	ug/L			09/29/23 18:52	1
Tetrachloroethene	0.66	U	1.0	0.66	ug/L			09/29/23 18:52	1
Toluene	0.48	U	1.0	0.48	ug/L			09/29/23 18:52	1
trans-1,2-Dichloroethene	**30**		1.0	0.37	ug/L			09/29/23 18:52	1
trans-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			09/29/23 18:52	1
Trichloroethene	0.79	U	5.0	0.79	ug/L			09/29/23 18:52	1
Trichlorofluoromethane	0.56	U	1.0	0.56	ug/L			09/29/23 18:52	1
Xylenes, Total	1.2	U	10	1.2	ug/L			09/29/23 18:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*63 - 144*		*09/29/23 18:52*	*1*

Client Sample ID: LC34-DPT0936-018.0-20230926

Lab Sample ID: 670-27487-27

Date Collected: 09/26/23 10:20

Matrix: Water

Date Received: 09/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*74 - 124*		*09/29/23 18:52*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 131*		*09/29/23 18:52*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*09/29/23 18:52*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**1000**		20	9.1	ug/L			10/02/23 13:55	20
Vinyl chloride	**1100**		40	8.6	ug/L			10/02/23 13:55	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*63 - 144*		*10/02/23 13:55*	*20*
4-Bromofluorobenzene (Surr)	*100*		*74 - 124*		*10/02/23 13:55*	*20*
Dibromofluoromethane (Surr)	*102*		*75 - 131*		*10/02/23 13:55*	*20*
Toluene-d8 (Surr)	*100*		*80 - 120*		*10/02/23 13:55*	*20*

Client Sample ID: LC34-DPT0936-025.0-20230926

Lab Sample ID: 670-27487-28

Date Collected: 09/26/23 10:35

Matrix: Water

Date Received: 09/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.59	U	5.0	0.59	ug/L			09/29/23 19:13	1
1,1,2,2-Tetrachloroethane	0.47	U	1.0	0.47	ug/L			09/29/23 19:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	10	1.1	ug/L			09/29/23 19:13	1
1,1,2-Trichloroethane	0.41	U	1.0	0.41	ug/L			09/29/23 19:13	1
1,1-Dichloroethane	0.64	U	1.0	0.64	ug/L			09/29/23 19:13	1
1,1-Dichloroethene	0.74	U	1.0	0.74	ug/L			09/29/23 19:13	1
1,2,4-Trichlorobenzene	1.8	U	5.0	1.8	ug/L			09/29/23 19:13	1
1,2-Dibromo-3-Chloropropane	0.67	U	5.0	0.67	ug/L			09/29/23 19:13	1
1,2-Dibromoethane (EDB)	1.0	U	5.0	1.0	ug/L			09/29/23 19:13	1
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			09/29/23 19:13	1
1,2-Dichloroethane	0.37	U	1.0	0.37	ug/L			09/29/23 19:13	1
1,2-Dichloropropane	0.56	U	5.0	0.56	ug/L			09/29/23 19:13	1
1,3-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			09/29/23 19:13	1
1,4-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			09/29/23 19:13	1
2-Butanone (MEK)	8.3	U	50	8.3	ug/L			09/29/23 19:13	1
2-Hexanone	7.4	U	50	7.4	ug/L			09/29/23 19:13	1
4-Methyl-2-pentanone	7.5	U	50	7.5	ug/L			09/29/23 19:13	1
Acetone	3.1	U	100	3.1	ug/L			09/29/23 19:13	1
Benzene	0.46	U	1.0	0.46	ug/L			09/29/23 19:13	1
Bromodichloromethane	0.55	U	1.0	0.55	ug/L			09/29/23 19:13	1
Bromoform	0.63	U	5.0	0.63	ug/L			09/29/23 19:13	1
Bromomethane	1.4	U	5.0	1.4	ug/L			09/29/23 19:13	1
Carbon disulfide	0.78	U	5.0	0.78	ug/L			09/29/23 19:13	1
Carbon tetrachloride	0.90	U	5.0	0.90	ug/L			09/29/23 19:13	1
Chlorobenzene	0.46	U	1.0	0.46	ug/L			09/29/23 19:13	1
Chloroethane	2.0	U	10	2.0	ug/L			09/29/23 19:13	1
Chloroform	0.46	U	1.0	0.46	ug/L			09/29/23 19:13	1
Chloromethane	2.0	U	10	2.0	ug/L			09/29/23 19:13	1
cis-1,2-Dichloroethene	**35**		1.0	0.46	ug/L			09/29/23 19:13	1

Client Sample ID: LC34-DPT0936-025.0-20230926

Lab Sample ID: 670-27487-28

Date Collected: 09/26/23 10:35

Matrix: Water

Date Received: 09/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	1.1	U	5.0	1.1	ug/L			09/29/23 19:13	1
Cyclohexane	1.3	U	5.0	1.3	ug/L			09/29/23 19:13	1
Dibromochloromethane	0.55	U	5.0	0.55	ug/L			09/29/23 19:13	1
Dichlorodifluoromethane	0.79	U	1.0	0.79	ug/L			09/29/23 19:13	1
Ethylbenzene	0.39	U	1.0	0.39	ug/L			09/29/23 19:13	1
Isopropylbenzene	0.59	U	1.0	0.59	ug/L			09/29/23 19:13	1
m,p-Xylenes	1.2	U	10	1.2	ug/L			09/29/23 19:13	1
Methyl acetate	4.0	U	20	4.0	ug/L			09/29/23 19:13	1
Methyl tert-butyl ether	1.4	U	5.0	1.4	ug/L			09/29/23 19:13	1
Methylene Chloride	1.7	U	5.0	1.7	ug/L			09/29/23 19:13	1
o-Xylene	0.50	U	1.0	0.50	ug/L			09/29/23 19:13	1
Styrene	0.62	U	1.0	0.62	ug/L			09/29/23 19:13	1
Tetrachloroethene	0.66	U	1.0	0.66	ug/L			09/29/23 19:13	1
Toluene	0.48	U	1.0	0.48	ug/L			09/29/23 19:13	1
trans-1,2-Dichloroethene	**17**		1.0	0.37	ug/L			09/29/23 19:13	1
trans-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			09/29/23 19:13	1
Trichloroethene	0.79	U	5.0	0.79	ug/L			09/29/23 19:13	1
Trichlorofluoromethane	0.56	U	1.0	0.56	ug/L			09/29/23 19:13	1
Xylenes, Total	1.2	U	10	1.2	ug/L			09/29/23 19:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*63 - 144*		*09/29/23 19:13*	*1*
4-Bromofluorobenzene (Surr)	*101*		*74 - 124*		*09/29/23 19:13*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 131*		*09/29/23 19:13*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*09/29/23 19:13*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	**5200**		200	43	ug/L			10/02/23 14:16	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*63 - 144*		*10/02/23 14:16*	*100*
4-Bromofluorobenzene (Surr)	*100*		*74 - 124*		*10/02/23 14:16*	*100*
Dibromofluoromethane (Surr)	*102*		*75 - 131*		*10/02/23 14:16*	*100*
Toluene-d8 (Surr)	*100*		*80 - 120*		*10/02/23 14:16*	*100*

Client Sample ID: LC34-DPT0936-034.0-20230926

Lab Sample ID: 670-27487-29

Date Collected: 09/26/23 10:55

Matrix: Water

Date Received: 09/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.59	U	5.0	0.59	ug/L			09/29/23 19:33	1
1,1,2,2-Tetrachloroethane	0.47	U	1.0	0.47	ug/L			09/29/23 19:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	10	1.1	ug/L			09/29/23 19:33	1
1,1,2-Trichloroethane	0.41	U	1.0	0.41	ug/L			09/29/23 19:33	1
1,1-Dichloroethane	0.64	U	1.0	0.64	ug/L			09/29/23 19:33	1
1,1-Dichloroethene	0.74	U	1.0	0.74	ug/L			09/29/23 19:33	1
1,2,4-Trichlorobenzene	1.8	U	5.0	1.8	ug/L			09/29/23 19:33	1
1,2-Dibromo-3-Chloropropane	0.67	U	5.0	0.67	ug/L			09/29/23 19:33	1
1,2-Dibromoethane (EDB)	1.0	U	5.0	1.0	ug/L			09/29/23 19:33	1

Client Sample ID: LC34-DPT0936-034.0-20230926
Date Collected: 09/26/23 10:55
Date Received: 09/27/23 08:00

Lab Sample ID: 670-27487-29
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			09/29/23 19:33	1
1,2-Dichloroethane	0.37	U	1.0	0.37	ug/L			09/29/23 19:33	1
1,2-Dichloropropane	0.56	U	5.0	0.56	ug/L			09/29/23 19:33	1
1,3-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			09/29/23 19:33	1
1,4-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			09/29/23 19:33	1
2-Butanone (MEK)	8.3	U	50	8.3	ug/L			09/29/23 19:33	1
2-Hexanone	7.4	U	50	7.4	ug/L			09/29/23 19:33	1
4-Methyl-2-pentanone	7.5	U	50	7.5	ug/L			09/29/23 19:33	1
Acetone	3.1	U	100	3.1	ug/L			09/29/23 19:33	1
Benzene	0.46	U	1.0	0.46	ug/L			09/29/23 19:33	1
Bromodichloromethane	0.55	U	1.0	0.55	ug/L			09/29/23 19:33	1
Bromoform	0.63	U	5.0	0.63	ug/L			09/29/23 19:33	1
Bromomethane	1.4	U	5.0	1.4	ug/L			09/29/23 19:33	1
Carbon disulfide	0.78	U	5.0	0.78	ug/L			09/29/23 19:33	1
Carbon tetrachloride	0.90	U	5.0	0.90	ug/L			09/29/23 19:33	1
Chlorobenzene	0.46	U	1.0	0.46	ug/L			09/29/23 19:33	1
Chloroethane	2.0	U	10	2.0	ug/L			09/29/23 19:33	1
Chloroform	0.46	U	1.0	0.46	ug/L			09/29/23 19:33	1
Chloromethane	2.0	U	10	2.0	ug/L			09/29/23 19:33	1
cis-1,3-Dichloropropene	1.1	U	5.0	1.1	ug/L			09/29/23 19:33	1
Cyclohexane	1.3	U	5.0	1.3	ug/L			09/29/23 19:33	1
Dibromochloromethane	0.55	U	5.0	0.55	ug/L			09/29/23 19:33	1
Dichlorodifluoromethane	0.79	U	1.0	0.79	ug/L			09/29/23 19:33	1
Ethylbenzene	0.39	U	1.0	0.39	ug/L			09/29/23 19:33	1
Isopropylbenzene	0.59	U	1.0	0.59	ug/L			09/29/23 19:33	1
m,p-Xylenes	1.2	U	10	1.2	ug/L			09/29/23 19:33	1
Methyl acetate	4.0	U	20	4.0	ug/L			09/29/23 19:33	1
Methyl tert-butyl ether	1.4	U	5.0	1.4	ug/L			09/29/23 19:33	1
Methylene Chloride	1.7	U	5.0	1.7	ug/L			09/29/23 19:33	1
o-Xylene	0.50	U	1.0	0.50	ug/L			09/29/23 19:33	1
Styrene	0.62	U	1.0	0.62	ug/L			09/29/23 19:33	1
Tetrachloroethene	0.66	U	1.0	0.66	ug/L			09/29/23 19:33	1
Toluene	0.48	U	1.0	0.48	ug/L			09/29/23 19:33	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			09/29/23 19:33	1
trans-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			09/29/23 19:33	1
Trichloroethene	0.79	U	5.0	0.79	ug/L			09/29/23 19:33	1
Trichlorofluoromethane	0.56	U	1.0	0.56	ug/L			09/29/23 19:33	1
Vinyl chloride	**82**		2.0	0.43	ug/L			09/29/23 19:33	1
Xylenes, Total	1.2	U	10	1.2	ug/L			09/29/23 19:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*63 - 144*		*09/29/23 19:33*	*1*
4-Bromofluorobenzene (Surr)	*100*		*74 - 124*		*09/29/23 19:33*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 131*		*09/29/23 19:33*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*09/29/23 19:33*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**4.3**		1.0	0.46	ug/L			10/02/23 14:49	1

Client Sample ID: LC34-DPT0936-034.0-20230926

Lab Sample ID: 670-27487-29

Date Collected: 09/26/23 10:55

Matrix: Water

Date Received: 09/27/23 08:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*120*		*63 - 144*		*10/02/23 14:49*	*1*
4-Bromofluorobenzene (Surr)	*107*		*74 - 124*		*10/02/23 14:49*	*1*
Dibromofluoromethane (Surr)	*112*		*75 - 131*		*10/02/23 14:49*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*10/02/23 14:49*	*1*

Client Sample ID: LC34-DPT0936-038.0-20230926

Lab Sample ID: 670-27487-30

Date Collected: 09/26/23 11:15

Matrix: Water

Date Received: 09/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.59	U	5.0	0.59	ug/L			09/29/23 19:54	1
1,1,2,2-Tetrachloroethane	0.47	U	1.0	0.47	ug/L			09/29/23 19:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	10	1.1	ug/L			09/29/23 19:54	1
1,1,2-Trichloroethane	0.41	U	1.0	0.41	ug/L			09/29/23 19:54	1
1,1-Dichloroethane	0.64	U	1.0	0.64	ug/L			09/29/23 19:54	1
1,1-Dichloroethene	0.74	U	1.0	0.74	ug/L			09/29/23 19:54	1
1,2,4-Trichlorobenzene	1.8	U	5.0	1.8	ug/L			09/29/23 19:54	1
1,2-Dibromo-3-Chloropropane	0.67	U	5.0	0.67	ug/L			09/29/23 19:54	1
1,2-Dibromoethane (EDB)	1.0	U	5.0	1.0	ug/L			09/29/23 19:54	1
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			09/29/23 19:54	1
1,2-Dichloroethane	0.37	U	1.0	0.37	ug/L			09/29/23 19:54	1
1,2-Dichloropropane	0.56	U	5.0	0.56	ug/L			09/29/23 19:54	1
1,3-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			09/29/23 19:54	1
1,4-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			09/29/23 19:54	1
2-Butanone (MEK)	8.3	U	50	8.3	ug/L			09/29/23 19:54	1
2-Hexanone	7.4	U	50	7.4	ug/L			09/29/23 19:54	1
4-Methyl-2-pentanone	7.5	U	50	7.5	ug/L			09/29/23 19:54	1
Acetone	3.1	U	100	3.1	ug/L			09/29/23 19:54	1
Benzene	0.46	U	1.0	0.46	ug/L			09/29/23 19:54	1
Bromodichloromethane	0.55	U	1.0	0.55	ug/L			09/29/23 19:54	1
Bromoform	0.63	U	5.0	0.63	ug/L			09/29/23 19:54	1
Bromomethane	1.4	U	5.0	1.4	ug/L			09/29/23 19:54	1
Carbon disulfide	0.78	U	5.0	0.78	ug/L			09/29/23 19:54	1
Carbon tetrachloride	0.90	U	5.0	0.90	ug/L			09/29/23 19:54	1
Chlorobenzene	0.46	U	1.0	0.46	ug/L			09/29/23 19:54	1
Chloroethane	2.0	U	10	2.0	ug/L			09/29/23 19:54	1
Chloroform	0.46	U	1.0	0.46	ug/L			09/29/23 19:54	1
Chloromethane	2.0	U	10	2.0	ug/L			09/29/23 19:54	1
cis-1,2-Dichloroethene	0.46	U	1.0	0.46	ug/L			09/29/23 19:54	1
cis-1,3-Dichloropropene	1.1	U	5.0	1.1	ug/L			09/29/23 19:54	1
Cyclohexane	1.3	U	5.0	1.3	ug/L			09/29/23 19:54	1
Dibromochloromethane	0.55	U	5.0	0.55	ug/L			09/29/23 19:54	1
Dichlorodifluoromethane	0.79	U	1.0	0.79	ug/L			09/29/23 19:54	1
Ethylbenzene	0.39	U	1.0	0.39	ug/L			09/29/23 19:54	1
Isopropylbenzene	0.59	U	1.0	0.59	ug/L			09/29/23 19:54	1
m,p-Xylenes	1.2	U	10	1.2	ug/L			09/29/23 19:54	1
Methyl acetate	4.0	U	20	4.0	ug/L			09/29/23 19:54	1
Methyl tert-butyl ether	1.4	U	5.0	1.4	ug/L			09/29/23 19:54	1
Methylene Chloride	1.7	U	5.0	1.7	ug/L			09/29/23 19:54	1

Client Sample ID: LC34-DPT0936-038.0-20230926

Lab Sample ID: 670-27487-30

Date Collected: 09/26/23 11:15

Matrix: Water

Date Received: 09/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	0.50	U	1.0	0.50	ug/L			09/29/23 19:54	1
Styrene	0.62	U	1.0	0.62	ug/L			09/29/23 19:54	1
Tetrachloroethene	0.66	U	1.0	0.66	ug/L			09/29/23 19:54	1
Toluene	0.48	U	1.0	0.48	ug/L			09/29/23 19:54	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			09/29/23 19:54	1
trans-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			09/29/23 19:54	1
Trichloroethene	0.79	U	5.0	0.79	ug/L			09/29/23 19:54	1
Trichlorofluoromethane	0.56	U	1.0	0.56	ug/L			09/29/23 19:54	1
Xylenes, Total	1.2	U	10	1.2	ug/L			09/29/23 19:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*63 - 144*		*09/29/23 19:54*	*1*
4-Bromofluorobenzene (Surr)	*100*		*74 - 124*		*09/29/23 19:54*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 131*		*09/29/23 19:54*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*09/29/23 19:54*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	**2.4**		2.0	0.43	ug/L			10/02/23 13:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*63 - 144*		*10/02/23 13:14*	*1*
4-Bromofluorobenzene (Surr)	*100*		*74 - 124*		*10/02/23 13:14*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 131*		*10/02/23 13:14*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*10/02/23 13:14*	*1*

Client Sample ID: LC34-DPT0937-008.0-20230926

Lab Sample ID: 670-27487-31

Date Collected: 09/26/23 11:55

Matrix: Water

Date Received: 09/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.59	U	5.0	0.59	ug/L			09/29/23 20:15	1
1,1,2,2-Tetrachloroethane	0.47	U	1.0	0.47	ug/L			09/29/23 20:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	10	1.1	ug/L			09/29/23 20:15	1
1,1,2-Trichloroethane	0.41	U	1.0	0.41	ug/L			09/29/23 20:15	1
1,1-Dichloroethane	0.64	U	1.0	0.64	ug/L			09/29/23 20:15	1
1,1-Dichloroethene	0.74	U	1.0	0.74	ug/L			09/29/23 20:15	1
1,2,4-Trichlorobenzene	1.8	U	5.0	1.8	ug/L			09/29/23 20:15	1
1,2-Dibromo-3-Chloropropane	0.67	U	5.0	0.67	ug/L			09/29/23 20:15	1
1,2-Dibromoethane (EDB)	1.0	U	5.0	1.0	ug/L			09/29/23 20:15	1
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			09/29/23 20:15	1
1,2-Dichloroethane	0.37	U	1.0	0.37	ug/L			09/29/23 20:15	1
1,2-Dichloropropane	0.56	U	5.0	0.56	ug/L			09/29/23 20:15	1
1,3-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			09/29/23 20:15	1
1,4-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			09/29/23 20:15	1
2-Butanone (MEK)	8.3	U	50	8.3	ug/L			09/29/23 20:15	1
2-Hexanone	7.4	U	50	7.4	ug/L			09/29/23 20:15	1
4-Methyl-2-pentanone	7.5	U	50	7.5	ug/L			09/29/23 20:15	1
Acetone	3.1	U	100	3.1	ug/L			09/29/23 20:15	1
Benzene	0.46	U	1.0	0.46	ug/L			09/29/23 20:15	1

Client Sample ID: LC34-DPT0937-008.0-20230926

Lab Sample ID: 670-27487-31

Date Collected: 09/26/23 11:55

Matrix: Water

Date Received: 09/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	0.55	U	1.0	0.55	ug/L			09/29/23 20:15	1
Bromoform	0.63	U	5.0	0.63	ug/L			09/29/23 20:15	1
Bromomethane	1.4	U	5.0	1.4	ug/L			09/29/23 20:15	1
Carbon disulfide	0.78	U	5.0	0.78	ug/L			09/29/23 20:15	1
Carbon tetrachloride	0.90	U	5.0	0.90	ug/L			09/29/23 20:15	1
Chlorobenzene	0.46	U	1.0	0.46	ug/L			09/29/23 20:15	1
Chloroethane	2.0	U	10	2.0	ug/L			09/29/23 20:15	1
Chloroform	0.46	U	1.0	0.46	ug/L			09/29/23 20:15	1
Chloromethane	2.0	U	10	2.0	ug/L			09/29/23 20:15	1
cis-1,2-Dichloroethene	**28**		1.0	0.46	ug/L			09/29/23 20:15	1
cis-1,3-Dichloropropene	1.1	U	5.0	1.1	ug/L			09/29/23 20:15	1
Cyclohexane	1.3	U	5.0	1.3	ug/L			09/29/23 20:15	1
Dibromochloromethane	0.55	U	5.0	0.55	ug/L			09/29/23 20:15	1
Dichlorodifluoromethane	0.79	U	1.0	0.79	ug/L			09/29/23 20:15	1
Ethylbenzene	0.39	U	1.0	0.39	ug/L			09/29/23 20:15	1
Isopropylbenzene	0.59	U	1.0	0.59	ug/L			09/29/23 20:15	1
m,p-Xylenes	1.2	U	10	1.2	ug/L			09/29/23 20:15	1
Methyl acetate	4.0	U	20	4.0	ug/L			09/29/23 20:15	1
Methyl tert-butyl ether	1.4	U	5.0	1.4	ug/L			09/29/23 20:15	1
Methylene Chloride	1.7	U	5.0	1.7	ug/L			09/29/23 20:15	1
o-Xylene	0.50	U	1.0	0.50	ug/L			09/29/23 20:15	1
Styrene	0.62	U	1.0	0.62	ug/L			09/29/23 20:15	1
Tetrachloroethene	0.66	U	1.0	0.66	ug/L			09/29/23 20:15	1
Toluene	0.48	U	1.0	0.48	ug/L			09/29/23 20:15	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			09/29/23 20:15	1
trans-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			09/29/23 20:15	1
Trichloroethene	0.79	U	5.0	0.79	ug/L			09/29/23 20:15	1
Trichlorofluoromethane	0.56	U	1.0	0.56	ug/L			09/29/23 20:15	1
Vinyl chloride	**58**		2.0	0.43	ug/L			09/29/23 20:15	1
Xylenes, Total	1.2	U	10	1.2	ug/L			09/29/23 20:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*63 - 144*		*09/29/23 20:15*	*1*
4-Bromofluorobenzene (Surr)	*100*		*74 - 124*		*09/29/23 20:15*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 131*		*09/29/23 20:15*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*09/29/23 20:15*	*1*

Client Sample ID: LC34-DPT0937-013.0-20230926

Lab Sample ID: 670-27487-32

Date Collected: 09/26/23 12:10

Matrix: Water

Date Received: 09/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.59	U	5.0	0.59	ug/L			09/29/23 20:35	1
1,1,2,2-Tetrachloroethane	0.47	U	1.0	0.47	ug/L			09/29/23 20:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	10	1.1	ug/L			09/29/23 20:35	1
1,1,2-Trichloroethane	0.41	U	1.0	0.41	ug/L			09/29/23 20:35	1
1,1-Dichloroethane	0.64	U	1.0	0.64	ug/L			09/29/23 20:35	1
1,1-Dichloroethene	0.74	U	1.0	0.74	ug/L			09/29/23 20:35	1
1,2,4-Trichlorobenzene	1.8	U	5.0	1.8	ug/L			09/29/23 20:35	1

Client Sample ID: LC34-DPT0937-013.0-20230926
Date Collected: 09/26/23 12:10
Date Received: 09/27/23 08:00

Lab Sample ID: 670-27487-32
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	0.67	U	5.0	0.67	ug/L			09/29/23 20:35	1
1,2-Dibromoethane (EDB)	1.0	U	5.0	1.0	ug/L			09/29/23 20:35	1
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			09/29/23 20:35	1
1,2-Dichloroethane	0.37	U	1.0	0.37	ug/L			09/29/23 20:35	1
1,2-Dichloropropane	0.56	U	5.0	0.56	ug/L			09/29/23 20:35	1
1,3-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			09/29/23 20:35	1
1,4-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			09/29/23 20:35	1
2-Butanone (MEK)	8.3	U	50	8.3	ug/L			09/29/23 20:35	1
2-Hexanone	7.4	U	50	7.4	ug/L			09/29/23 20:35	1
4-Methyl-2-pentanone	7.5	U	50	7.5	ug/L			09/29/23 20:35	1
Acetone	3.1	U	100	3.1	ug/L			09/29/23 20:35	1
Benzene	0.46	U	1.0	0.46	ug/L			09/29/23 20:35	1
Bromodichloromethane	0.55	U	1.0	0.55	ug/L			09/29/23 20:35	1
Bromoform	0.63	U	5.0	0.63	ug/L			09/29/23 20:35	1
Bromomethane	1.4	U	5.0	1.4	ug/L			09/29/23 20:35	1
Carbon disulfide	0.78	U	5.0	0.78	ug/L			09/29/23 20:35	1
Carbon tetrachloride	0.90	U	5.0	0.90	ug/L			09/29/23 20:35	1
Chlorobenzene	0.46	U	1.0	0.46	ug/L			09/29/23 20:35	1
Chloroethane	2.0	U	10	2.0	ug/L			09/29/23 20:35	1
Chloroform	0.46	U	1.0	0.46	ug/L			09/29/23 20:35	1
Chloromethane	2.0	U	10	2.0	ug/L			09/29/23 20:35	1
cis-1,3-Dichloropropene	1.1	U	5.0	1.1	ug/L			09/29/23 20:35	1
Cyclohexane	1.3	U	5.0	1.3	ug/L			09/29/23 20:35	1
Dibromochloromethane	0.55	U	5.0	0.55	ug/L			09/29/23 20:35	1
Dichlorodifluoromethane	0.79	U	1.0	0.79	ug/L			09/29/23 20:35	1
Ethylbenzene	0.39	U	1.0	0.39	ug/L			09/29/23 20:35	1
Isopropylbenzene	0.59	U	1.0	0.59	ug/L			09/29/23 20:35	1
m,p-Xylenes	1.2	U	10	1.2	ug/L			09/29/23 20:35	1
Methyl acetate	4.0	U	20	4.0	ug/L			09/29/23 20:35	1
Methyl tert-butyl ether	1.4	U	5.0	1.4	ug/L			09/29/23 20:35	1
Methylene Chloride	1.7	U	5.0	1.7	ug/L			09/29/23 20:35	1
o-Xylene	0.50	U	1.0	0.50	ug/L			09/29/23 20:35	1
Styrene	0.62	U	1.0	0.62	ug/L			09/29/23 20:35	1
Tetrachloroethene	0.66	U	1.0	0.66	ug/L			09/29/23 20:35	1
Toluene	0.48	U	1.0	0.48	ug/L			09/29/23 20:35	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			09/29/23 20:35	1
trans-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			09/29/23 20:35	1
Trichloroethene	0.79	U	5.0	0.79	ug/L			09/29/23 20:35	1
Trichlorofluoromethane	0.56	U	1.0	0.56	ug/L			09/29/23 20:35	1
Xylenes, Total	1.2	U	10	1.2	ug/L			09/29/23 20:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*63 - 144*		*09/29/23 20:35*	*1*
4-Bromofluorobenzene (Surr)	*99*		*74 - 124*		*09/29/23 20:35*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 131*		*09/29/23 20:35*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*09/29/23 20:35*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**320**		5.0	2.3	ug/L			10/02/23 14:36	5

Client Sample ID: LC34-DPT0937-013.0-20230926

Lab Sample ID: 670-27487-32

Date Collected: 09/26/23 12:10

Matrix: Water

Date Received: 09/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	310		10	2.1	ug/L			10/02/23 14:36	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*63 - 144*		*10/02/23 14:36*	*5*
4-Bromofluorobenzene (Surr)	*101*		*74 - 124*		*10/02/23 14:36*	*5*
Dibromofluoromethane (Surr)	*100*		*75 - 131*		*10/02/23 14:36*	*5*
Toluene-d8 (Surr)	*99*		*80 - 120*		*10/02/23 14:36*	*5*

Client Sample ID: LC34-DPT0937-018.0-20230926

Lab Sample ID: 670-27487-33

Date Collected: 09/26/23 12:25

Matrix: Water

Date Received: 09/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.59	U	5.0	0.59	ug/L			09/29/23 21:16	1
1,1,2,2-Tetrachloroethane	0.47	U	1.0	0.47	ug/L			09/29/23 21:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	10	1.1	ug/L			09/29/23 21:16	1
1,1,2-Trichloroethane	0.41	U	1.0	0.41	ug/L			09/29/23 21:16	1
1,1-Dichloroethane	0.64	U	1.0	0.64	ug/L			09/29/23 21:16	1
1,1-Dichloroethene	0.74	U	1.0	0.74	ug/L			09/29/23 21:16	1
1,2,4-Trichlorobenzene	1.8	U	5.0	1.8	ug/L			09/29/23 21:16	1
1,2-Dibromo-3-Chloropropane	0.67	U	5.0	0.67	ug/L			09/29/23 21:16	1
1,2-Dibromoethane (EDB)	1.0	U	5.0	1.0	ug/L			09/29/23 21:16	1
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			09/29/23 21:16	1
1,2-Dichloroethane	0.37	U	1.0	0.37	ug/L			09/29/23 21:16	1
1,2-Dichloropropane	0.56	U	5.0	0.56	ug/L			09/29/23 21:16	1
1,3-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			09/29/23 21:16	1
1,4-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			09/29/23 21:16	1
2-Butanone (MEK)	8.3	U	50	8.3	ug/L			09/29/23 21:16	1
2-Hexanone	7.4	U	50	7.4	ug/L			09/29/23 21:16	1
4-Methyl-2-pentanone	7.5	U	50	7.5	ug/L			09/29/23 21:16	1
Acetone	3.1	U	100	3.1	ug/L			09/29/23 21:16	1
Benzene	0.46	U	1.0	0.46	ug/L			09/29/23 21:16	1
Bromodichloromethane	0.55	U	1.0	0.55	ug/L			09/29/23 21:16	1
Bromoform	0.63	U	5.0	0.63	ug/L			09/29/23 21:16	1
Bromomethane	1.4	U	5.0	1.4	ug/L			09/29/23 21:16	1
Carbon disulfide	0.78	U	5.0	0.78	ug/L			09/29/23 21:16	1
Carbon tetrachloride	0.90	U	5.0	0.90	ug/L			09/29/23 21:16	1
Chlorobenzene	0.46	U	1.0	0.46	ug/L			09/29/23 21:16	1
Chloroethane	2.0	U	10	2.0	ug/L			09/29/23 21:16	1
Chloroform	0.46	U	1.0	0.46	ug/L			09/29/23 21:16	1
Chloromethane	2.0	U	10	2.0	ug/L			09/29/23 21:16	1
cis-1,3-Dichloropropene	1.1	U	5.0	1.1	ug/L			09/29/23 21:16	1
Cyclohexane	1.3	U	5.0	1.3	ug/L			09/29/23 21:16	1
Dibromochloromethane	0.55	U	5.0	0.55	ug/L			09/29/23 21:16	1
Dichlorodifluoromethane	0.79	U	1.0	0.79	ug/L			09/29/23 21:16	1
Ethylbenzene	0.39	U	1.0	0.39	ug/L			09/29/23 21:16	1
Isopropylbenzene	0.59	U	1.0	0.59	ug/L			09/29/23 21:16	1
m,p-Xylenes	1.2	U	10	1.2	ug/L			09/29/23 21:16	1
Methyl acetate	4.0	U	20	4.0	ug/L			09/29/23 21:16	1

Client Sample ID: LC34-DPT0937-018.0-20230926

Lab Sample ID: 670-27487-33

Date Collected: 09/26/23 12:25

Matrix: Water

Date Received: 09/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	1.4	U	5.0	1.4	ug/L			09/29/23 21:16	1
Methylene Chloride	1.7	U	5.0	1.7	ug/L			09/29/23 21:16	1
o-Xylene	0.50	U	1.0	0.50	ug/L			09/29/23 21:16	1
Styrene	0.62	U	1.0	0.62	ug/L			09/29/23 21:16	1
Tetrachloroethene	0.66	U	1.0	0.66	ug/L			09/29/23 21:16	1
Toluene	0.48	U	1.0	0.48	ug/L			09/29/23 21:16	1
trans-1,2-Dichloroethene	**42**		1.0	0.37	ug/L			09/29/23 21:16	1
trans-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			09/29/23 21:16	1
Trichloroethene	0.79	U	5.0	0.79	ug/L			09/29/23 21:16	1
Trichlorofluoromethane	0.56	U	1.0	0.56	ug/L			09/29/23 21:16	1
Xylenes, Total	1.2	U	10	1.2	ug/L			09/29/23 21:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*63 - 144*		*09/29/23 21:16*	*1*
4-Bromofluorobenzene (Surr)	*101*		*74 - 124*		*09/29/23 21:16*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 131*		*09/29/23 21:16*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*09/29/23 21:16*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**700**		25	11	ug/L			10/02/23 14:57	25
Vinyl chloride	**2100**		50	11	ug/L			10/02/23 14:57	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*63 - 144*		*10/02/23 14:57*	*25*
4-Bromofluorobenzene (Surr)	*101*		*74 - 124*		*10/02/23 14:57*	*25*
Dibromofluoromethane (Surr)	*101*		*75 - 131*		*10/02/23 14:57*	*25*
Toluene-d8 (Surr)	*101*		*80 - 120*		*10/02/23 14:57*	*25*

Client Sample ID: LC34-DPT0937-025.0-20230926

Lab Sample ID: 670-27487-34

Date Collected: 09/26/23 12:45

Matrix: Water

Date Received: 09/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.59	U	5.0	0.59	ug/L			09/29/23 21:37	1
1,1,2,2-Tetrachloroethane	0.47	U	1.0	0.47	ug/L			09/29/23 21:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	10	1.1	ug/L			09/29/23 21:37	1
1,1,2-Trichloroethane	0.41	U	1.0	0.41	ug/L			09/29/23 21:37	1
1,1-Dichloroethane	0.64	U	1.0	0.64	ug/L			09/29/23 21:37	1
1,1-Dichloroethene	0.74	U	1.0	0.74	ug/L			09/29/23 21:37	1
1,2,4-Trichlorobenzene	1.8	U	5.0	1.8	ug/L			09/29/23 21:37	1
1,2-Dibromo-3-Chloropropane	0.67	U	5.0	0.67	ug/L			09/29/23 21:37	1
1,2-Dibromoethane (EDB)	1.0	U	5.0	1.0	ug/L			09/29/23 21:37	1
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			09/29/23 21:37	1
1,2-Dichloroethane	0.37	U	1.0	0.37	ug/L			09/29/23 21:37	1
1,2-Dichloropropane	0.56	U	5.0	0.56	ug/L			09/29/23 21:37	1
1,3-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			09/29/23 21:37	1
1,4-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			09/29/23 21:37	1
2-Butanone (MEK)	8.3	U	50	8.3	ug/L			09/29/23 21:37	1
2-Hexanone	7.4	U	50	7.4	ug/L			09/29/23 21:37	1

Client Sample ID: LC34-DPT0937-025.0-20230926
Date Collected: 09/26/23 12:45
Date Received: 09/27/23 08:00

Lab Sample ID: 670-27487-34
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone	7.5	U	50	7.5	ug/L			09/29/23 21:37	1
Acetone	3.1	U	100	3.1	ug/L			09/29/23 21:37	1
Benzene	0.46	U	1.0	0.46	ug/L			09/29/23 21:37	1
Bromodichloromethane	0.55	U	1.0	0.55	ug/L			09/29/23 21:37	1
Bromoform	0.63	U	5.0	0.63	ug/L			09/29/23 21:37	1
Bromomethane	1.4	U	5.0	1.4	ug/L			09/29/23 21:37	1
Carbon disulfide	**3.2**	**I**	5.0	0.78	ug/L			09/29/23 21:37	1
Carbon tetrachloride	0.90	U	5.0	0.90	ug/L			09/29/23 21:37	1
Chlorobenzene	0.46	U	1.0	0.46	ug/L			09/29/23 21:37	1
Chloroethane	2.0	U	10	2.0	ug/L			09/29/23 21:37	1
Chloroform	0.46	U	1.0	0.46	ug/L			09/29/23 21:37	1
Chloromethane	2.0	U	10	2.0	ug/L			09/29/23 21:37	1
cis-1,2-Dichloroethene	**2.4**		1.0	0.46	ug/L			09/29/23 21:37	1
cis-1,3-Dichloropropene	1.1	U	5.0	1.1	ug/L			09/29/23 21:37	1
Cyclohexane	1.3	U	5.0	1.3	ug/L			09/29/23 21:37	1
Dibromochloromethane	0.55	U	5.0	0.55	ug/L			09/29/23 21:37	1
Dichlorodifluoromethane	0.79	U	1.0	0.79	ug/L			09/29/23 21:37	1
Ethylbenzene	0.39	U	1.0	0.39	ug/L			09/29/23 21:37	1
Isopropylbenzene	0.59	U	1.0	0.59	ug/L			09/29/23 21:37	1
m,p-Xylenes	1.2	U	10	1.2	ug/L			09/29/23 21:37	1
Methyl acetate	4.0	U	20	4.0	ug/L			09/29/23 21:37	1
Methyl tert-butyl ether	1.4	U	5.0	1.4	ug/L			09/29/23 21:37	1
Methylene Chloride	1.7	U	5.0	1.7	ug/L			09/29/23 21:37	1
o-Xylene	0.50	U	1.0	0.50	ug/L			09/29/23 21:37	1
Styrene	0.62	U	1.0	0.62	ug/L			09/29/23 21:37	1
Tetrachloroethene	0.66	U	1.0	0.66	ug/L			09/29/23 21:37	1
Toluene	0.48	U	1.0	0.48	ug/L			09/29/23 21:37	1
trans-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			09/29/23 21:37	1
Trichloroethene	0.79	U	5.0	0.79	ug/L			09/29/23 21:37	1
Trichlorofluoromethane	0.56	U	1.0	0.56	ug/L			09/29/23 21:37	1
Xylenes, Total	1.2	U	10	1.2	ug/L			09/29/23 21:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*63 - 144*		*09/29/23 21:37*	*1*
4-Bromofluorobenzene (Surr)	*101*		*74 - 124*		*09/29/23 21:37*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 131*		*09/29/23 21:37*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*09/29/23 21:37*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	**440**		100	37	ug/L			10/02/23 15:17	100
Vinyl chloride	**9500**		200	43	ug/L			10/02/23 15:17	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*63 - 144*		*10/02/23 15:17*	*100*
4-Bromofluorobenzene (Surr)	*101*		*74 - 124*		*10/02/23 15:17*	*100*
Dibromofluoromethane (Surr)	*101*		*75 - 131*		*10/02/23 15:17*	*100*
Toluene-d8 (Surr)	*99*		*80 - 120*		*10/02/23 15:17*	*100*

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34

Job ID: 670-27487-1

Client Sample ID: LC34-DPT0937-034.0-20230926
Date Collected: 09/26/23 13:05
Date Received: 09/27/23 08:00

Lab Sample ID: 670-27487-35
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2.9	U	25	2.9	ug/L			10/03/23 16:49	5
1,1,2,2-Tetrachloroethane	2.4	U	5.0	2.4	ug/L			10/03/23 16:49	5
1,1,2-Trichloro-1,2,2-trifluoroethane	5.6	U	50	5.6	ug/L			10/03/23 16:49	5
1,1,2-Trichloroethane	2.1	U	5.0	2.1	ug/L			10/03/23 16:49	5
1,1-Dichloroethane	3.2	U	5.0	3.2	ug/L			10/03/23 16:49	5
1,1-Dichloroethene	3.7	U	5.0	3.7	ug/L			10/03/23 16:49	5
1,2,4-Trichlorobenzene	8.8	U	25	8.8	ug/L			10/03/23 16:49	5
1,2-Dibromo-3-Chloropropane	3.4	U	25	3.4	ug/L			10/03/23 16:49	5
1,2-Dibromoethane (EDB)	5.0	U	25	5.0	ug/L			10/03/23 16:49	5
1,2-Dichlorobenzene	2.1	U	5.0	2.1	ug/L			10/03/23 16:49	5
1,2-Dichloroethane	1.9	U	5.0	1.9	ug/L			10/03/23 16:49	5
1,2-Dichloropropane	2.8	U	25	2.8	ug/L			10/03/23 16:49	5
1,3-Dichlorobenzene	2.1	U	5.0	2.1	ug/L			10/03/23 16:49	5
1,4-Dichlorobenzene	2.2	U	5.0	2.2	ug/L			10/03/23 16:49	5
2-Butanone (MEK)	41	U	250	41	ug/L			10/03/23 16:49	5
2-Hexanone	37	U	250	37	ug/L			10/03/23 16:49	5
4-Methyl-2-pentanone	37	U	250	37	ug/L			10/03/23 16:49	5
Acetone	15	U	500	15	ug/L			10/03/23 16:49	5
Benzene	2.3	U	5.0	2.3	ug/L			10/03/23 16:49	5
Bromodichloromethane	2.8	U	5.0	2.8	ug/L			10/03/23 16:49	5
Bromoform	3.2	U	25	3.2	ug/L			10/03/23 16:49	5
Bromomethane	7.1	U	25	7.1	ug/L			10/03/23 16:49	5
Carbon disulfide	3.9	U	25	3.9	ug/L			10/03/23 16:49	5
Carbon tetrachloride	4.5	U	25	4.5	ug/L			10/03/23 16:49	5
Chlorobenzene	2.3	U	5.0	2.3	ug/L			10/03/23 16:49	5
Chloroethane	9.9	U	50	9.9	ug/L			10/03/23 16:49	5
Chloroform	2.3	U	5.0	2.3	ug/L			10/03/23 16:49	5
Chloromethane	10	U	50	10	ug/L			10/03/23 16:49	5
cis-1,2-Dichloroethene	**4.3**	**I**	5.0	2.3	ug/L			10/03/23 16:49	5
cis-1,3-Dichloropropene	5.3	U	25	5.3	ug/L			10/03/23 16:49	5
Cyclohexane	6.4	U	25	6.4	ug/L			10/03/23 16:49	5
Dibromochloromethane	2.7	U	25	2.7	ug/L			10/03/23 16:49	5
Dichlorodifluoromethane	3.9	U	5.0	3.9	ug/L			10/03/23 16:49	5
Ethylbenzene	1.9	U	5.0	1.9	ug/L			10/03/23 16:49	5
Isopropylbenzene	3.0	U	5.0	3.0	ug/L			10/03/23 16:49	5
m,p-Xylenes	6.2	U	50	6.2	ug/L			10/03/23 16:49	5
Methyl acetate	20	U	100	20	ug/L			10/03/23 16:49	5
Methyl tert-butyl ether	7.0	U	25	7.0	ug/L			10/03/23 16:49	5
Methylene Chloride	8.6	U	25	8.6	ug/L			10/03/23 16:49	5
o-Xylene	2.5	U	5.0	2.5	ug/L			10/03/23 16:49	5
Styrene	3.1	U	5.0	3.1	ug/L			10/03/23 16:49	5
Tetrachloroethene	3.3	U	5.0	3.3	ug/L			10/03/23 16:49	5
Toluene	2.4	U	5.0	2.4	ug/L			10/03/23 16:49	5
trans-1,2-Dichloroethene	1.8	U	5.0	1.8	ug/L			10/03/23 16:49	5
trans-1,3-Dichloropropene	6.3	U	25	6.3	ug/L			10/03/23 16:49	5
Trichloroethene	4.0	U	25	4.0	ug/L			10/03/23 16:49	5
Trichlorofluoromethane	2.8	U	5.0	2.8	ug/L			10/03/23 16:49	5
Vinyl chloride	**420**		10	2.1	ug/L			10/03/23 16:49	5
Xylenes, Total	6.2	U	50	6.2	ug/L			10/03/23 16:49	5

Client Sample ID: LC34-DPT0937-034.0-20230926

Lab Sample ID: 670-27487-35

Date Collected: 09/26/23 13:05

Matrix: Water

Date Received: 09/27/23 08:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*63 - 144*		*10/03/23 16:49*	*5*
4-Bromofluorobenzene (Surr)	*101*		*74 - 124*		*10/03/23 16:49*	*5*
Dibromofluoromethane (Surr)	*102*		*75 - 131*		*10/03/23 16:49*	*5*
Toluene-d8 (Surr)	*101*		*80 - 120*		*10/03/23 16:49*	*5*

Client Sample ID: LC34-DPT0937-038.0-20230926

Lab Sample ID: 670-27487-36

Date Collected: 09/26/23 13:25

Matrix: Water

Date Received: 09/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.59	U	5.0	0.59	ug/L			09/29/23 22:18	1
1,1,2,2-Tetrachloroethane	0.47	U	1.0	0.47	ug/L			09/29/23 22:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	10	1.1	ug/L			09/29/23 22:18	1
1,1,2-Trichloroethane	0.41	U	1.0	0.41	ug/L			09/29/23 22:18	1
1,1-Dichloroethane	0.64	U	1.0	0.64	ug/L			09/29/23 22:18	1
1,1-Dichloroethene	0.74	U	1.0	0.74	ug/L			09/29/23 22:18	1
1,2,4-Trichlorobenzene	1.8	U	5.0	1.8	ug/L			09/29/23 22:18	1
1,2-Dibromo-3-Chloropropane	0.67	U	5.0	0.67	ug/L			09/29/23 22:18	1
1,2-Dibromoethane (EDB)	1.0	U	5.0	1.0	ug/L			09/29/23 22:18	1
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			09/29/23 22:18	1
1,2-Dichloroethane	0.37	U	1.0	0.37	ug/L			09/29/23 22:18	1
1,2-Dichloropropane	0.56	U	5.0	0.56	ug/L			09/29/23 22:18	1
1,3-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			09/29/23 22:18	1
1,4-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			09/29/23 22:18	1
2-Butanone (MEK)	8.3	U	50	8.3	ug/L			09/29/23 22:18	1
2-Hexanone	7.4	U	50	7.4	ug/L			09/29/23 22:18	1
4-Methyl-2-pentanone	7.5	U	50	7.5	ug/L			09/29/23 22:18	1
Acetone	3.1	U	100	3.1	ug/L			09/29/23 22:18	1
Benzene	0.46	U	1.0	0.46	ug/L			09/29/23 22:18	1
Bromodichloromethane	0.55	U	1.0	0.55	ug/L			09/29/23 22:18	1
Bromoform	0.63	U	5.0	0.63	ug/L			09/29/23 22:18	1
Bromomethane	1.4	U	5.0	1.4	ug/L			09/29/23 22:18	1
Carbon disulfide	0.78	U	5.0	0.78	ug/L			09/29/23 22:18	1
Carbon tetrachloride	0.90	U	5.0	0.90	ug/L			09/29/23 22:18	1
Chlorobenzene	0.46	U	1.0	0.46	ug/L			09/29/23 22:18	1
Chloroethane	2.0	U	10	2.0	ug/L			09/29/23 22:18	1
Chloroform	0.46	U	1.0	0.46	ug/L			09/29/23 22:18	1
Chloromethane	2.0	U	10	2.0	ug/L			09/29/23 22:18	1
cis-1,2-Dichloroethene	0.46	U	1.0	0.46	ug/L			09/29/23 22:18	1
cis-1,3-Dichloropropene	1.1	U	5.0	1.1	ug/L			09/29/23 22:18	1
Cyclohexane	1.3	U	5.0	1.3	ug/L			09/29/23 22:18	1
Dibromochloromethane	0.55	U	5.0	0.55	ug/L			09/29/23 22:18	1
Dichlorodifluoromethane	0.79	U	1.0	0.79	ug/L			09/29/23 22:18	1
Ethylbenzene	0.39	U	1.0	0.39	ug/L			09/29/23 22:18	1
Isopropylbenzene	0.59	U	1.0	0.59	ug/L			09/29/23 22:18	1
m,p-Xylenes	1.2	U	10	1.2	ug/L			09/29/23 22:18	1
Methyl acetate	4.0	U	20	4.0	ug/L			09/29/23 22:18	1
Methyl tert-butyl ether	1.4	U	5.0	1.4	ug/L			09/29/23 22:18	1
Methylene Chloride	1.7	U	5.0	1.7	ug/L			09/29/23 22:18	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34

Job ID: 670-27487-1

Client Sample ID: LC34-DPT0937-038.0-20230926

Date Collected: 09/26/23 13:25
Date Received: 09/27/23 08:00

Lab Sample ID: 670-27487-36

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	0.50	U	1.0	0.50	ug/L			09/29/23 22:18	1
Styrene	0.62	U	1.0	0.62	ug/L			09/29/23 22:18	1
Tetrachloroethene	0.66	U	1.0	0.66	ug/L			09/29/23 22:18	1
Toluene	0.48	U	1.0	0.48	ug/L			09/29/23 22:18	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			09/29/23 22:18	1
trans-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			09/29/23 22:18	1
Trichloroethene	0.79	U	5.0	0.79	ug/L			09/29/23 22:18	1
Trichlorofluoromethane	0.56	U	1.0	0.56	ug/L			09/29/23 22:18	1
Xylenes, Total	1.2	U	10	1.2	ug/L			09/29/23 22:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*63 - 144*		*09/29/23 22:18*	*1*
4-Bromofluorobenzene (Surr)	*100*		*74 - 124*		*09/29/23 22:18*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 131*		*09/29/23 22:18*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*09/29/23 22:18*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	0.43	U	2.0	0.43	ug/L			10/02/23 13:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*63 - 144*		*10/02/23 13:45*	*1*
4-Bromofluorobenzene (Surr)	*95*		*74 - 124*		*10/02/23 13:45*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 131*		*10/02/23 13:45*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*10/02/23 13:45*	*1*

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34

Job ID: 670-27487-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	DCA (63-144)	DCA (63-144)	BFB (74-124)	BFB (74-124)	DBFM (75-131)	DBFM (75-131)	TOL (80-120)	TOL (80-120)
670-27487-1	LC34-DPT0932-008.0-2023092	105	105	97	97	102	102	98	98
670-27487-1 MS	LC34-DPT0932-008.0-20230925	97	97	105	105	99	99	103	103
670-27487-2	LC34-DPT0932-013.0-20230925	104	104	103	103	101	101	100	100
670-27487-2 - DL	LC34-DPT0932-013.0-20230925	102	102	99	99	101	101	99	99
670-27487-3	LC34-DPT0932-018.0-20230925	103	103	99	99	100	100	99	99
670-27487-3 - DL	LC34-DPT0932-018.0-20230925	103	103	100	100	102	102	100	100
670-27487-3 - DL2	LC34-DPT0932-018.0-20230925	102	102	101	101	100	100	100	100
670-27487-4	LC34-DPT0932-025.0-20230925	104	104	98	98	101	101	100	100
670-27487-4 - DL	LC34-DPT0932-025.0-20230925	102	102	100	100	100	100	100	100
670-27487-5	LC34-DPT0932-034.0-20230925	106	106	98	98	103	103	98	98
670-27487-5	LC34-DPT0932-034.0-20230925	107	107	103	103	107	107	106	106
670-27487-5 MS	LC34-DPT0932-034.0-20230925	96	96	105	105	98	98	105	105
670-27487-6	LC34-DPT0932-038.0-20230925	106	106	99	99	103	103	101	101
670-27487-6 - RA	LC34-DPT0932-038.0-20230925	100	100	99	99	103	103	97	97
670-27487-6 MS	LC34-DPT0932-038.0-20230925	98	98	98	98	105	105	96	96
670-27487-7	LC34-DPT0933-008.0-20230925	105	105	99	99	104	104	99	99
670-27487-7	LC34-DPT0933-008.0-20230925	102	102	100	100	102	102	100	100
670-27487-7 MS	LC34-DPT0933-008.0-20230925	96	96	99	99	102	102	98	98
670-27487-8	LC34-DPT0933-013.0-20230925	104	104	98	98	101	101	98	98
670-27487-9	LC34-DPT0933-018.0-20230925	104	104	101	101	100	100	100	100
670-27487-9 - DL	LC34-DPT0933-018.0-20230925	103	103	100	100	103	103	99	99
670-27487-9 - DL2	LC34-DPT0933-018.0-20230925	103	103	101	101	102	102	100	100
670-27487-10	LC34-DPT0933-025.0-20230925	105	105	100	100	101	101	100	100
670-27487-10 - DL	LC34-DPT0933-025.0-20230925	103	103	101	101	101	101	101	101
670-27487-11	LC34-DPT0933-034.0-20230925	108	108	98	98	103	103	101	101
670-27487-11 - RA	LC34-DPT0933-034.0-20230925	102	102	100	100	102	102	100	100
670-27487-12	LC34-DPT0933-038.0-20230925	107	107	99	99	101	101	100	100
670-27487-12 - RA	LC34-DPT0933-038.0-20230925	103	103	100	100	101	101	100	100

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34

Job ID: 670-27487-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	DCA (63-144)	DCA (63-144)	BFB (74-124)	BFB (74-124)	DBFM (75-131)	DBFM (75-131)	TOL (80-120)	TOL (80-120)
670-27487-13	LC34-DPT0934-008.0-20230925	107	107	98	98	102	102	101	101
670-27487-14	LC34-DPT0934-013.0-20230925	105	105	99	99	103	103	100	100
670-27487-15	LC34-DPT0934-018.0-20230925	107	107	102	102	101	101	100	100
670-27487-16	LC34-DPT0934-025.0-20230925	105	105	102	102	103	103	103	103
670-27487-17	LC34-DPT0934-034.0-20230925	107	107	100	100	102	102	103	103
670-27487-18	LC34-DPT0934-038.0-20230925	107	107	101	101	104	104	101	101
670-27487-18 - RA	LC34-DPT0934-038.0-20230925	102	102	102	102	103	103	101	101
670-27487-19	LC34-DPT0935-008.0-20230926	107	107	99	99	103	103	99	99
670-27487-20	LC34-DPT0935-013.0-20230926	106	106	99	99	103	103	101	101
670-27487-21	LC34-DPT0935-018.0-20230926	101	101	100	100	101	101	99	99
670-27487-22	LC34-DPT0935-025.0-20230926	101	101	101	101	102	102	100	100
670-27487-23	LC34-DPT0935-034.0-20230926	101	101	100	100	101	101	100	100
670-27487-24	LC34-DPT0935-038.0-20230926	101	101	101	101	102	102	101	101
670-27487-25	LC34-DPT0936-008.0-20230926	101	101	101	101	100	100	99	99
670-27487-26	LC34-DPT0936-013.0-20230926	102	102	100	100	101	101	99	99
670-27487-26 - DL	LC34-DPT0936-013.0-20230926	103	103	100	100	100	100	101	101
670-27487-27	LC34-DPT0936-018.0-20230926	101	101	99	99	102	102	100	100
670-27487-27 - DL	LC34-DPT0936-018.0-20230926	102	102	100	100	102	102	100	100
670-27487-28	LC34-DPT0936-025.0-20230926	101	101	101	101	100	100	99	99
670-27487-28 - DL	LC34-DPT0936-025.0-20230926	101	101	100	100	102	102	100	100
670-27487-29	LC34-DPT0936-034.0-20230926	101	101	100	100	100	100	99	99
670-27487-29 - RA	LC34-DPT0936-034.0-20230926	120	120	107	107	112	112	104	104
670-27487-30	LC34-DPT0936-038.0-20230926	102	102	100	100	102	102	99	99
670-27487-30 - RA	LC34-DPT0936-038.0-20230926	101	101	100	100	101	101	100	100
670-27487-31	LC34-DPT0937-008.0-20230926	101	101	100	100	101	101	100	100
670-27487-32	LC34-DPT0937-013.0-20230926	100	100	99	99	99	99	100	100
670-27487-32 - DL	LC34-DPT0937-013.0-20230926	101	101	101	101	100	100	99	99
670-27487-33	LC34-DPT0937-018.0-20230926	101	101	101	101	100	100	100	100
670-27487-33 - DL	LC34-DPT0937-018.0-20230926	102	102	101	101	101	101	101	101

Surrogate Summary

Client: Tetra Tech, Inc.
Job ID: 670-27487-1
Project/Site: NASA KSC LC34

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Matrix: Water
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)							
		DCA	DCA	BFB	BFB	DBFM	DBFM	TOL	TOL
Lab Sample ID	Client Sample ID	(63-144)	(63-144)	(74-124)	(74-124)	(75-131)	(75-131)	(80-120)	(80-120)
670-27487-34	LC34-DPT0937-025.0-2023092(	101	101	101	101	101	101	101	101
670-27487-34 - DL	LC34-DPT0937-025.0-20230926	102	102	101	101	101	101	99	99
670-27487-35	LC34-DPT0937-034.0-20230926	102	102	101	101	102	102	101	101
670-27487-36	LC34-DPT0937-038.0-20230926	101	101	100	100	101	101	101	101
670-27487-36 - RA	LC34-DPT0937-038.0-20230926	97	97	95	95	102	102	93	93
860-58200-B-19 MS	Matrix Spike	95	95	100	100	96	96	98	98
860-58200-B-19 MSD	Matrix Spike Duplicate	97	97	100	100	97	97	98	98
860-58231-E-2 MS	Matrix Spike	97	97	100	100	100	100	99	99
880-33722-D-1 MS	Matrix Spike	96	96	100	100	101	101	99	99
LCS 860-124024/3	Lab Control Sample	96	96	98	98	101	101	98	98
LCS 860-124041/1011	Lab Control Sample	98	98	103	103	98	98	102	102
LCS 860-124262/3	Lab Control Sample	95	95	99	99	101	101	99	99
LCS 860-124265/3	Lab Control Sample	96	96	102	102	98	98	103	103
LCS 860-124268/3	Lab Control Sample	97	97	97	97	103	103	96	96
LCS 860-124308/3	Lab Control Sample	98	98	99	99	96	96	99	99
LCS 860-124479/3	Lab Control Sample	97	97	100	100	101	101	99	99
LCSD 860-124024/4	Lab Control Sample Dup	96	96	100	100	100	100	100	100
LCSD 860-124041/12	Lab Control Sample Dup	97	97	100	100	98	98	99	99
LCSD 860-124262/4	Lab Control Sample Dup	96	96	99	99	99	99	99	99
LCSD 860-124265/4	Lab Control Sample Dup	97	97	101	101	98	98	104	104
LCSD 860-124268/4	Lab Control Sample Dup	95	95	96	96	105	105	95	95
LCSD 860-124308/4	Lab Control Sample Dup	96	96	96	96	94	94	98	98
LCSD 860-124479/4	Lab Control Sample Dup	98	98	99	99	101	101	99	99
MB 860-124024/10	Method Blank	101	101	100	100	101	101	100	100
MB 860-124041/16	Method Blank	104	104	100	100	100	100	99	99
MB 860-124262/8	Method Blank	101	101	101	101	100	100	99	99
MB 860-124265/9	Method Blank	104	104	109	109	105	105	110	110
MB 860-124268/9	Method Blank	99	99	96	96	101	101	95	95
MB 860-124308/10	Method Blank	114	114	108	108	109	109	102	102
MB 860-124479/9	Method Blank	102	102	103	103	101	101	102	102

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34

Job ID: 670-27487-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 860-124024/10
Matrix: Water
Analysis Batch: 124024

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.59	U	5.0	0.59	ug/L			09/29/23 15:28	1
1,1,2,2-Tetrachloroethane	0.47	U	1.0	0.47	ug/L			09/29/23 15:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	10	1.1	ug/L			09/29/23 15:28	1
1,1,2-Trichloroethane	0.41	U	1.0	0.41	ug/L			09/29/23 15:28	1
1,1-Dichloroethane	0.64	U	1.0	0.64	ug/L			09/29/23 15:28	1
1,1-Dichloroethene	0.74	U	1.0	0.74	ug/L			09/29/23 15:28	1
1,2,4-Trichlorobenzene	1.8	U	5.0	1.8	ug/L			09/29/23 15:28	1
1,2-Dibromo-3-Chloropropane	0.67	U	5.0	0.67	ug/L			09/29/23 15:28	1
1,2-Dibromoethane (EDB)	1.0	U	5.0	1.0	ug/L			09/29/23 15:28	1
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			09/29/23 15:28	1
1,2-Dichloroethane	0.37	U	1.0	0.37	ug/L			09/29/23 15:28	1
1,2-Dichloropropane	0.56	U	5.0	0.56	ug/L			09/29/23 15:28	1
1,3-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			09/29/23 15:28	1
1,4-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			09/29/23 15:28	1
2-Butanone (MEK)	8.3	U	50	8.3	ug/L			09/29/23 15:28	1
2-Hexanone	7.4	U	50	7.4	ug/L			09/29/23 15:28	1
4-Methyl-2-pentanone	7.5	U	50	7.5	ug/L			09/29/23 15:28	1
Acetone	3.1	U	100	3.1	ug/L			09/29/23 15:28	1
Benzene	0.46	U	1.0	0.46	ug/L			09/29/23 15:28	1
Bromodichloromethane	0.55	U	1.0	0.55	ug/L			09/29/23 15:28	1
Bromoform	0.63	U	5.0	0.63	ug/L			09/29/23 15:28	1
Bromomethane	1.4	U	5.0	1.4	ug/L			09/29/23 15:28	1
Carbon disulfide	0.78	U	5.0	0.78	ug/L			09/29/23 15:28	1
Carbon tetrachloride	0.90	U	5.0	0.90	ug/L			09/29/23 15:28	1
Chlorobenzene	0.46	U	1.0	0.46	ug/L			09/29/23 15:28	1
Chloroethane	2.0	U	10	2.0	ug/L			09/29/23 15:28	1
Chloroform	0.46	U	1.0	0.46	ug/L			09/29/23 15:28	1
Chloromethane	2.0	U	10	2.0	ug/L			09/29/23 15:28	1
cis-1,2-Dichloroethene	0.46	U	1.0	0.46	ug/L			09/29/23 15:28	1
cis-1,3-Dichloropropene	1.1	U	5.0	1.1	ug/L			09/29/23 15:28	1
Cyclohexane	1.3	U	5.0	1.3	ug/L			09/29/23 15:28	1
Dibromochloromethane	0.55	U	5.0	0.55	ug/L			09/29/23 15:28	1
Dichlorodifluoromethane	0.79	U	1.0	0.79	ug/L			09/29/23 15:28	1
Ethylbenzene	0.39	U	1.0	0.39	ug/L			09/29/23 15:28	1
Isopropylbenzene	0.59	U	1.0	0.59	ug/L			09/29/23 15:28	1
m,p-Xylenes	1.2	U	10	1.2	ug/L			09/29/23 15:28	1
Methyl acetate	4.0	U	20	4.0	ug/L			09/29/23 15:28	1
Methyl tert-butyl ether	1.4	U	5.0	1.4	ug/L			09/29/23 15:28	1
Methylene Chloride	1.7	U	5.0	1.7	ug/L			09/29/23 15:28	1
o-Xylene	0.50	U	1.0	0.50	ug/L			09/29/23 15:28	1
Styrene	0.62	U	1.0	0.62	ug/L			09/29/23 15:28	1
Tetrachloroethene	0.66	U	1.0	0.66	ug/L			09/29/23 15:28	1
Toluene	0.48	U	1.0	0.48	ug/L			09/29/23 15:28	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			09/29/23 15:28	1
trans-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			09/29/23 15:28	1
Trichloroethene	0.79	U	5.0	0.79	ug/L			09/29/23 15:28	1
Trichlorofluoromethane	0.56	U	1.0	0.56	ug/L			09/29/23 15:28	1
Vinyl chloride	0.43	U	2.0	0.43	ug/L			09/29/23 15:28	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 860-124024/10
Matrix: Water
Analysis Batch: 124024

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	1.2	U	10	1.2	ug/L			09/29/23 15:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*63 - 144*		*09/29/23 15:28*	*1*
4-Bromofluorobenzene (Surr)	*100*		*74 - 124*		*09/29/23 15:28*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 131*		*09/29/23 15:28*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*09/29/23 15:28*	*1*

Lab Sample ID: LCS 860-124024/3
Matrix: Water
Analysis Batch: 124024

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	47.6		ug/L		95	70 - 130
1,1,2,2-Tetrachloroethane	50.0	39.0		ug/L		78	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	49.0		ug/L		98	60 - 140
1,1,2-Trichloroethane	50.0	43.1		ug/L		86	70 - 130
1,1-Dichloroethane	50.0	44.0		ug/L		88	70 - 130
1,1-Dichloroethene	50.0	47.6		ug/L		95	50 - 150
1,2,4-Trichlorobenzene	50.0	47.0		ug/L		94	75 - 135
1,2-Dibromo-3-Chloropropane	50.0	41.2		ug/L		82	59 - 125
1,2-Dibromoethane (EDB)	50.0	44.4		ug/L		89	73 - 125
1,2-Dichlorobenzene	50.0	43.6		ug/L		87	75 - 125
1,2-Dichloroethane	50.0	44.6		ug/L		89	72 - 130
1,2-Dichloropropane	50.0	44.1		ug/L		88	74 - 125
1,3-Dichlorobenzene	50.0	44.5		ug/L		89	75 - 125
1,4-Dichlorobenzene	50.0	44.2		ug/L		88	75 - 125
2-Butanone (MEK)	250	203		ug/L		81	60 - 140
2-Hexanone	250	204		ug/L		82	60 - 140
4-Methyl-2-pentanone	250	203		ug/L		81	60 - 140
Acetone	250	208		ug/L		83	60 - 140
Benzene	50.0	44.3		ug/L		89	75 - 125
Bromodichloromethane	50.0	44.8		ug/L		90	75 - 125
Bromoform	50.0	45.2		ug/L		90	70 - 130
Bromomethane	50.0	56.8		ug/L		114	60 - 140
Carbon disulfide	50.0	46.9		ug/L		94	60 - 140
Carbon tetrachloride	50.0	45.6		ug/L		91	70 - 130
Chlorobenzene	50.0	44.4		ug/L		89	65 - 135
Chloroethane	50.0	41.8		ug/L		84	60 - 140
Chloroform	50.0	44.8		ug/L		90	70 - 121
Chloromethane	50.0	49.5		ug/L		99	60 - 140
cis-1,2-Dichloroethene	50.0	43.8		ug/L		88	75 - 125
cis-1,3-Dichloropropene	50.0	45.7		ug/L		91	74 - 125
Cyclohexane	50.0	47.2		ug/L		94	70 - 130
Dibromochloromethane	50.0	45.7		ug/L		91	73 - 125
Dichlorodifluoromethane	50.0	52.3		ug/L		105	50 - 150
Ethylbenzene	50.0	44.6		ug/L		89	75 - 125
Isopropylbenzene	50.0	45.4		ug/L		91	75 - 125

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-124024/3
Matrix: Water
Analysis Batch: 124024

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
m,p-Xylenes	50.0	44.8		ug/L		90	75 - 125
Methyl acetate	100	79.1		ug/L		79	60 - 140
Methyl tert-butyl ether	50.0	47.1		ug/L		94	65 - 135
Methylene Chloride	50.0	43.3		ug/L		87	71 - 125
o-Xylene	50.0	44.2		ug/L		88	75 - 125
Styrene	50.0	45.3		ug/L		91	75 - 125
Tetrachloroethene	50.0	47.4		ug/L		95	71 - 125
Toluene	50.0	44.8		ug/L		90	70 - 130
trans-1,2-Dichloroethene	50.0	50.1		ug/L		100	75 - 125
trans-1,3-Dichloropropene	50.0	46.3		ug/L		93	66 - 125
Trichloroethene	50.0	48.1		ug/L		96	75 - 135
Trichlorofluoromethane	50.0	57.9		ug/L		116	60 - 140
Vinyl chloride	50.0	45.4		ug/L		91	60 - 140
Xylenes, Total	100	89.0		ug/L		89	75 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*63 - 144*
4-Bromofluorobenzene (Surr)	*98*		*74 - 124*
Dibromofluoromethane (Surr)	*101*		*75 - 131*
Toluene-d8 (Surr)	*98*		*80 - 120*

Lab Sample ID: LCSD 860-124024/4
Matrix: Water
Analysis Batch: 124024

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	50.0	45.3		ug/L		91	70 - 130	5	25
1,1,2,2-Tetrachloroethane	50.0	42.8		ug/L		86	74 - 125	9	25
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	46.1		ug/L		92	60 - 140	6	25
1,1,2-Trichloroethane	50.0	44.4		ug/L		89	70 - 130	3	25
1,1-Dichloroethane	50.0	42.4		ug/L		85	70 - 130	4	25
1,1-Dichloroethene	50.0	44.8		ug/L		90	50 - 150	6	25
1,2,4-Trichlorobenzene	50.0	48.0		ug/L		96	75 - 135	2	25
1,2-Dibromo-3-Chloropropane	50.0	47.0		ug/L		94	59 - 125	13	25
1,2-Dibromoethane (EDB)	50.0	46.6		ug/L		93	73 - 125	5	25
1,2-Dichlorobenzene	50.0	44.3		ug/L		89	75 - 125	2	25
1,2-Dichloroethane	50.0	45.1		ug/L		90	72 - 130	1	25
1,2-Dichloropropane	50.0	43.4		ug/L		87	74 - 125	2	25
1,3-Dichlorobenzene	50.0	44.5		ug/L		89	75 - 125	0	25
1,4-Dichlorobenzene	50.0	44.8		ug/L		90	75 - 125	1	25
2-Butanone (MEK)	250	217		ug/L		87	60 - 140	7	25
2-Hexanone	250	225		ug/L		90	60 - 140	10	25
4-Methyl-2-pentanone	250	221		ug/L		88	60 - 140	9	25
Acetone	250	220		ug/L		88	60 - 140	6	25
Benzene	50.0	43.6		ug/L		87	75 - 125	2	25
Bromodichloromethane	50.0	45.2		ug/L		90	75 - 125	1	25
Bromoform	50.0	47.4		ug/L		95	70 - 130	5	25
Bromomethane	50.0	56.0		ug/L		112	60 - 140	1	25

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-124024/4
Matrix: Water
Analysis Batch: 124024

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon disulfide			50.0	44.5		ug/L		89	60 - 140	5	25
Carbon tetrachloride			50.0	43.5		ug/L		87	70 - 130	5	25
Chlorobenzene			50.0	44.0		ug/L		88	65 - 135	1	25
Chloroethane			50.0	41.2		ug/L		82	60 - 140	1	25
Chloroform			50.0	43.5		ug/L		87	70 - 121	3	25
Chloromethane			50.0	48.9		ug/L		98	60 - 140	1	25
cis-1,2-Dichloroethene			50.0	42.7		ug/L		85	75 - 125	3	25
cis-1,3-Dichloropropene			50.0	45.6		ug/L		91	74 - 125	0	25
Cyclohexane			50.0	44.6		ug/L		89	70 - 130	6	25
Dibromochloromethane			50.0	46.2		ug/L		92	73 - 125	1	25
Dichlorodifluoromethane			50.0	50.6		ug/L		101	50 - 150	3	25
Ethylbenzene			50.0	43.5		ug/L		87	75 - 125	2	25
Isopropylbenzene			50.0	44.4		ug/L		89	75 - 125	2	25
m,p-Xylenes			50.0	43.6		ug/L		87	75 - 125	3	25
Methyl acetate			100	86.1		ug/L		86	60 - 140	9	25
Methyl tert-butyl ether			50.0	47.9		ug/L		96	65 - 135	2	25
Methylene Chloride			50.0	42.4		ug/L		85	71 - 125	2	25
o-Xylene			50.0	43.6		ug/L		87	75 - 125	2	25
Styrene			50.0	44.7		ug/L		89	75 - 125	1	25
Tetrachloroethene			50.0	46.4		ug/L		93	71 - 125	2	25
Toluene			50.0	43.8		ug/L		88	70 - 130	2	25
trans-1,2-Dichloroethene			50.0	48.1		ug/L		96	75 - 125	4	25
trans-1,3-Dichloropropene			50.0	46.9		ug/L		94	66 - 125	1	25
Trichloroethene			50.0	46.8		ug/L		94	75 - 135	3	25
Trichlorofluoromethane			50.0	55.7		ug/L		111	60 - 140	4	25
Vinyl chloride			50.0	44.3		ug/L		89	60 - 140	2	25
Xylenes, Total			100	87.2		ug/L		87	75 - 125	2	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*63 - 144*
4-Bromofluorobenzene (Surr)	*100*		*74 - 124*
Dibromofluoromethane (Surr)	*100*		*75 - 131*
Toluene-d8 (Surr)	*100*		*80 - 120*

Lab Sample ID: 880-33722-D-1 MS
Matrix: Water
Analysis Batch: 124024

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.59	U	50.0	50.6		ug/L		101	75 - 125
1,1,2,2-Tetrachloroethane	0.47	U	50.0	47.7		ug/L		95	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	50.0	51.3		ug/L		103	60 - 140
1,1,2-Trichloroethane	0.41	U	50.0	49.3		ug/L		99	75 - 127
1,1-Dichloroethane	0.64	U	50.0	47.3		ug/L		95	72 - 125
1,1-Dichloroethene	0.74	U	50.0	50.7		ug/L		101	59 - 172
1,2,4-Trichlorobenzene	1.8	U	50.0	53.2		ug/L		106	75 - 135
1,2-Dibromo-3-Chloropropane	0.67	U	50.0	50.9		ug/L		102	59 - 125
1,2-Dibromoethane (EDB)	1.0	U	50.0	51.5		ug/L		103	73 - 125

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 880-33722-D-1 MS
Matrix: Water
Analysis Batch: 124024

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichlorobenzene	0.43	U	50.0	49.6		ug/L		99	75 - 125
1,2-Dichloroethane	0.37	U	50.0	49.9		ug/L		100	68 - 127
1,2-Dichloropropane	0.56	U	50.0	47.7		ug/L		95	74 - 125
1,3-Dichlorobenzene	0.41	U	50.0	50.2		ug/L		100	75 - 125
1,4-Dichlorobenzene	0.45	U	50.0	50.2		ug/L		100	75 - 125
2-Butanone (MEK)	8.3	U	250	237		ug/L		95	60 - 140
2-Hexanone	7.4	U	250	247		ug/L		99	60 - 140
4-Methyl-2-pentanone	7.5	U	250	244		ug/L		97	60 - 140
Acetone	3.1	U	250	234		ug/L		94	60 - 140
Benzene	0.46	U	50.0	47.6		ug/L		95	66 - 142
Bromodichloromethane	0.55	U	50.0	49.4		ug/L		99	75 - 125
Bromoform	0.63	U	50.0	52.2		ug/L		104	75 - 125
Bromomethane	1.4	U	50.0	61.2		ug/L		122	60 - 140
Carbon disulfide	0.78	U	50.0	50.1		ug/L		100	60 - 140
Carbon tetrachloride	0.90	U	50.0	49.1		ug/L		98	62 - 125
Chlorobenzene	0.46	U	50.0	48.8		ug/L		98	60 - 133
Chloroethane	2.0	U	50.0	44.3		ug/L		89	60 - 140
Chloroform	0.46	U	50.0	48.6		ug/L		97	70 - 130
Chloromethane	2.0	U	50.0	53.9		ug/L		108	60 - 140
cis-1,2-Dichloroethene	0.46	U	50.0	47.6		ug/L		95	75 - 125
cis-1,3-Dichloropropene	1.1	U	50.0	50.7		ug/L		101	74 - 125
Cyclohexane	1.3	U	50.0	49.9		ug/L		100	70 - 130
Dibromochloromethane	0.55	U	50.0	51.3		ug/L		103	73 - 125
Dichlorodifluoromethane	0.79	U	50.0	55.3		ug/L		111	70 - 130
Ethylbenzene	0.39	U	50.0	48.1		ug/L		96	75 - 125
Isopropylbenzene	0.59	U	50.0	49.1		ug/L		98	75 - 125
m,p-Xylenes	1.2	U	50.0	48.6		ug/L		97	75 - 125
Methyl acetate	4.0	U	100	96.3		ug/L		96	60 - 140
Methyl tert-butyl ether	1.4	U	50.0	53.7		ug/L		107	65 - 135
Methylene Chloride	1.7	U	50.0	46.3		ug/L		93	75 - 125
o-Xylene	0.50	U	50.0	48.1		ug/L		96	75 - 125
Styrene	0.62	U	50.0	49.6		ug/L		99	75 - 125
Tetrachloroethene	0.66	U	50.0	51.5		ug/L		103	71 - 125
Toluene	0.48	U	50.0	48.4		ug/L		97	59 - 139
trans-1,2-Dichloroethene	0.37	U	50.0	53.4		ug/L		107	75 - 125
trans-1,3-Dichloropropene	1.3	U	50.0	52.3		ug/L		105	66 - 125
Trichloroethene	0.79	U	50.0	51.3		ug/L		103	62 - 137
Trichlorofluoromethane	0.56	U	50.0	61.4		ug/L		123	60 - 140
Vinyl chloride	0.43	U	50.0	48.4		ug/L		97	60 - 140
Xylenes, Total	1.2	U	100	96.7		ug/L		97	75 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*63 - 144*
4-Bromofluorobenzene (Surr)	*100*		*74 - 124*
Dibromofluoromethane (Surr)	*101*		*75 - 131*
Toluene-d8 (Surr)	*99*		*80 - 120*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 860-124041/16
Matrix: Water
Analysis Batch: 124041

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.59	U	5.0	0.59	ug/L			09/29/23 15:07	1
1,1,2,2-Tetrachloroethane	0.47	U	1.0	0.47	ug/L			09/29/23 15:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	10	1.1	ug/L			09/29/23 15:07	1
1,1,2-Trichloroethane	0.41	U	1.0	0.41	ug/L			09/29/23 15:07	1
1,1-Dichloroethane	0.64	U	1.0	0.64	ug/L			09/29/23 15:07	1
1,1-Dichloroethene	0.74	U	1.0	0.74	ug/L			09/29/23 15:07	1
1,2,4-Trichlorobenzene	1.8	U	5.0	1.8	ug/L			09/29/23 15:07	1
1,2-Dibromo-3-Chloropropane	0.67	U	5.0	0.67	ug/L			09/29/23 15:07	1
1,2-Dibromoethane (EDB)	1.0	U	5.0	1.0	ug/L			09/29/23 15:07	1
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			09/29/23 15:07	1
1,2-Dichloroethane	0.37	U	1.0	0.37	ug/L			09/29/23 15:07	1
1,2-Dichloropropane	0.56	U	5.0	0.56	ug/L			09/29/23 15:07	1
1,3-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			09/29/23 15:07	1
1,4-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			09/29/23 15:07	1
2-Butanone (MEK)	8.3	U	50	8.3	ug/L			09/29/23 15:07	1
2-Hexanone	7.4	U	50	7.4	ug/L			09/29/23 15:07	1
4-Methyl-2-pentanone	7.5	U	50	7.5	ug/L			09/29/23 15:07	1
Acetone	3.1	U	100	3.1	ug/L			09/29/23 15:07	1
Benzene	0.46	U	1.0	0.46	ug/L			09/29/23 15:07	1
Bromodichloromethane	0.55	U	1.0	0.55	ug/L			09/29/23 15:07	1
Bromoform	0.63	U	5.0	0.63	ug/L			09/29/23 15:07	1
Bromomethane	1.4	U	5.0	1.4	ug/L			09/29/23 15:07	1
Carbon disulfide	0.78	U	5.0	0.78	ug/L			09/29/23 15:07	1
Carbon tetrachloride	0.90	U	5.0	0.90	ug/L			09/29/23 15:07	1
Chlorobenzene	0.46	U	1.0	0.46	ug/L			09/29/23 15:07	1
Chloroethane	2.0	U	10	2.0	ug/L			09/29/23 15:07	1
Chloroform	0.46	U	1.0	0.46	ug/L			09/29/23 15:07	1
Chloromethane	2.0	U	10	2.0	ug/L			09/29/23 15:07	1
cis-1,2-Dichloroethene	0.46	U	1.0	0.46	ug/L			09/29/23 15:07	1
cis-1,3-Dichloropropene	1.1	U	5.0	1.1	ug/L			09/29/23 15:07	1
Cyclohexane	1.3	U	5.0	1.3	ug/L			09/29/23 15:07	1
Dibromochloromethane	0.55	U	5.0	0.55	ug/L			09/29/23 15:07	1
Dichlorodifluoromethane	0.79	U	1.0	0.79	ug/L			09/29/23 15:07	1
Ethylbenzene	0.39	U	1.0	0.39	ug/L			09/29/23 15:07	1
Isopropylbenzene	0.59	U	1.0	0.59	ug/L			09/29/23 15:07	1
m,p-Xylenes	1.2	U	10	1.2	ug/L			09/29/23 15:07	1
Methyl acetate	4.0	U	20	4.0	ug/L			09/29/23 15:07	1
Methyl tert-butyl ether	1.4	U	5.0	1.4	ug/L			09/29/23 15:07	1
Methylene Chloride	1.7	U	5.0	1.7	ug/L			09/29/23 15:07	1
o-Xylene	0.50	U	1.0	0.50	ug/L			09/29/23 15:07	1
Styrene	0.62	U	1.0	0.62	ug/L			09/29/23 15:07	1
Tetrachloroethene	0.66	U	1.0	0.66	ug/L			09/29/23 15:07	1
Toluene	0.48	U	1.0	0.48	ug/L			09/29/23 15:07	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			09/29/23 15:07	1
trans-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			09/29/23 15:07	1
Trichloroethene	0.79	U	5.0	0.79	ug/L			09/29/23 15:07	1
Trichlorofluoromethane	0.56	U	1.0	0.56	ug/L			09/29/23 15:07	1
Vinyl chloride	0.43	U	2.0	0.43	ug/L			09/29/23 15:07	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 860-124041/16
Matrix: Water
Analysis Batch: 124041

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	1.2	U	10	1.2	ug/L			09/29/23 15:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*63 - 144*		*09/29/23 15:07*	*1*
4-Bromofluorobenzene (Surr)	*100*		*74 - 124*		*09/29/23 15:07*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 131*		*09/29/23 15:07*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*09/29/23 15:07*	*1*

Lab Sample ID: LCS 860-124041/1011
Matrix: Water
Analysis Batch: 124041

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	45.4		ug/L		91	70 - 130
1,1,2,2-Tetrachloroethane	50.0	51.9		ug/L		104	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	45.1		ug/L		90	60 - 140
1,1,2-Trichloroethane	50.0	50.4		ug/L		101	70 - 130
1,1-Dichloroethane	50.0	44.7		ug/L		89	70 - 130
1,1-Dichloroethene	50.0	46.9		ug/L		94	50 - 150
1,2,4-Trichlorobenzene	50.0	52.9		ug/L		106	75 - 135
1,2-Dibromo-3-Chloropropane	50.0	54.1		ug/L		108	59 - 125
1,2-Dibromoethane (EDB)	50.0	51.6		ug/L		103	73 - 125
1,2-Dichlorobenzene	50.0	51.7		ug/L		103	75 - 125
1,2-Dichloroethane	50.0	48.2		ug/L		96	72 - 130
1,2-Dichloropropane	50.0	47.9		ug/L		96	74 - 125
1,3-Dichlorobenzene	50.0	51.6		ug/L		103	75 - 125
1,4-Dichlorobenzene	50.0	50.6		ug/L		101	75 - 125
2-Butanone (MEK)	250	248		ug/L		99	60 - 140
2-Hexanone	250	266		ug/L		106	60 - 140
4-Methyl-2-pentanone	250	260		ug/L		104	60 - 140
Acetone	250	219		ug/L		87	60 - 140
Benzene	50.0	47.3		ug/L		95	75 - 125
Bromodichloromethane	50.0	48.4		ug/L		97	75 - 125
Bromoform	50.0	51.4		ug/L		103	70 - 130
Bromomethane	50.0	48.9		ug/L		98	60 - 140
Carbon disulfide	50.0	44.9		ug/L		90	60 - 140
Carbon tetrachloride	50.0	46.1		ug/L		92	70 - 130
Chlorobenzene	50.0	48.7		ug/L		97	65 - 135
Chloroethane	50.0	50.9		ug/L		102	60 - 140
Chloroform	50.0	47.0		ug/L		94	70 - 121
Chloromethane	50.0	49.7		ug/L		99	60 - 140
cis-1,2-Dichloroethene	50.0	46.6		ug/L		93	75 - 125
cis-1,3-Dichloropropene	50.0	49.5		ug/L		99	74 - 125
Cyclohexane	50.0	44.7		ug/L		89	70 - 130
Dibromochloromethane	50.0	50.6		ug/L		101	73 - 125
Dichlorodifluoromethane	50.0	47.9		ug/L		96	50 - 150
Ethylbenzene	50.0	50.0		ug/L		100	75 - 125
Isopropylbenzene	50.0	51.6		ug/L		103	75 - 125

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-124041/1011
Matrix: Water
Analysis Batch: 124041

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
m,p-Xylenes	50.0	50.1		ug/L		100	75 - 125
Methyl acetate	100	98.9		ug/L		99	60 - 140
Methyl tert-butyl ether	50.0	49.0		ug/L		98	65 - 135
Methylene Chloride	50.0	43.9		ug/L		88	71 - 125
o-Xylene	50.0	50.9		ug/L		102	75 - 125
Styrene	50.0	51.8		ug/L		104	75 - 125
Tetrachloroethene	50.0	48.4		ug/L		97	71 - 125
Toluene	50.0	47.4		ug/L		95	70 - 130
trans-1,2-Dichloroethene	50.0	45.6		ug/L		91	75 - 125
trans-1,3-Dichloropropene	50.0	51.4		ug/L		103	66 - 125
Trichloroethene	50.0	47.5		ug/L		95	75 - 135
Trichlorofluoromethane	50.0	48.8		ug/L		98	60 - 140
Vinyl chloride	50.0	49.0		ug/L		98	60 - 140
Xylenes, Total	100	101		ug/L		101	75 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*63 - 144*
4-Bromofluorobenzene (Surr)	*103*		*74 - 124*
Dibromofluoromethane (Surr)	*98*		*75 - 131*
Toluene-d8 (Surr)	*102*		*80 - 120*

Lab Sample ID: LCSD 860-124041/12
Matrix: Water
Analysis Batch: 124041

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	50.0	46.7		ug/L		93	70 - 130	3	25
1,1,2,2-Tetrachloroethane	50.0	48.6		ug/L		97	74 - 125	6	25
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	44.1		ug/L		88	60 - 140	2	25
1,1,2-Trichloroethane	50.0	48.3		ug/L		97	70 - 130	4	25
1,1-Dichloroethane	50.0	48.6		ug/L		97	70 - 130	8	25
1,1-Dichloroethene	50.0	48.6		ug/L		97	50 - 150	4	25
1,2,4-Trichlorobenzene	50.0	49.6		ug/L		99	75 - 135	6	25
1,2-Dibromo-3-Chloropropane	50.0	51.4		ug/L		103	59 - 125	5	25
1,2-Dibromoethane (EDB)	50.0	49.7		ug/L		99	73 - 125	4	25
1,2-Dichlorobenzene	50.0	47.9		ug/L		96	75 - 125	8	25
1,2-Dichloroethane	50.0	47.9		ug/L		96	72 - 130	1	25
1,2-Dichloropropane	50.0	48.6		ug/L		97	74 - 125	1	25
1,3-Dichlorobenzene	50.0	48.0		ug/L		96	75 - 125	7	25
1,4-Dichlorobenzene	50.0	48.3		ug/L		97	75 - 125	5	25
2-Butanone (MEK)	250	242		ug/L		97	60 - 140	2	25
2-Hexanone	250	253		ug/L		101	60 - 140	5	25
4-Methyl-2-pentanone	250	254		ug/L		102	60 - 140	2	25
Acetone	250	209		ug/L		83	60 - 140	5	25
Benzene	50.0	48.4		ug/L		97	75 - 125	2	25
Bromodichloromethane	50.0	48.5		ug/L		97	75 - 125	0	25
Bromoform	50.0	49.6		ug/L		99	70 - 130	4	25
Bromomethane	50.0	48.6		ug/L		97	60 - 140	1	25

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-124041/12
Matrix: Water
Analysis Batch: 124041

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon disulfide	50.0	46.7		ug/L		93	60 - 140	4	25
Carbon tetrachloride	50.0	48.1		ug/L		96	70 - 130	4	25
Chlorobenzene	50.0	48.2		ug/L		96	65 - 135	1	25
Chloroethane	50.0	49.1		ug/L		98	60 - 140	4	25
Chloroform	50.0	47.7		ug/L		95	70 - 121	1	25
Chloromethane	50.0	50.4		ug/L		101	60 - 140	1	25
cis-1,2-Dichloroethene	50.0	47.8		ug/L		96	75 - 125	3	25
cis-1,3-Dichloropropene	50.0	50.1		ug/L		100	74 - 125	1	25
Cyclohexane	50.0	43.6		ug/L		87	70 - 130	3	25
Dibromochloromethane	50.0	49.0		ug/L		98	73 - 125	3	25
Dichlorodifluoromethane	50.0	42.0		ug/L		84	50 - 150	13	25
Ethylbenzene	50.0	49.5		ug/L		99	75 - 125	1	25
Isopropylbenzene	50.0	50.6		ug/L		101	75 - 125	2	25
m,p-Xylenes	50.0	49.4		ug/L		99	75 - 125	2	25
Methyl acetate	100	96.9		ug/L		97	60 - 140	2	25
Methyl tert-butyl ether	50.0	48.7		ug/L		97	65 - 135	1	25
Methylene Chloride	50.0	44.7		ug/L		89	71 - 125	2	25
o-Xylene	50.0	50.2		ug/L		100	75 - 125	1	25
Styrene	50.0	50.9		ug/L		102	75 - 125	2	25
Tetrachloroethene	50.0	47.2		ug/L		94	71 - 125	3	25
Toluene	50.0	47.4		ug/L		95	70 - 130	0	25
trans-1,2-Dichloroethene	50.0	48.0		ug/L		96	75 - 125	5	25
trans-1,3-Dichloropropene	50.0	50.1		ug/L		100	66 - 125	3	25
Trichloroethene	50.0	48.2		ug/L		96	75 - 135	2	25
Trichlorofluoromethane	50.0	46.1		ug/L		92	60 - 140	6	25
Vinyl chloride	50.0	48.3		ug/L		97	60 - 140	1	25
Xylenes, Total	100	99.6		ug/L		100	75 - 125	1	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*63 - 144*
4-Bromofluorobenzene (Surr)	*100*		*74 - 124*
Dibromofluoromethane (Surr)	*98*		*75 - 131*
Toluene-d8 (Surr)	*99*		*80 - 120*

Lab Sample ID: 670-27487-1 MS
Matrix: Water
Analysis Batch: 124041

Client Sample ID: LC34-DPT0932-008.0-20230925
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.59	U	50.0	47.8		ug/L		96	75 - 125
1,1,1-Trichloroethane	0.59	U	50.0	47.8		ug/L		96	75 - 125
1,1,2,2-Tetrachloroethane	0.47	U	50.0	54.4		ug/L		109	74 - 125
1,1,2,2-Tetrachloroethane	0.47	U	50.0	54.4		ug/L		109	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	50.0	48.9		ug/L		98	60 - 140
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	50.0	48.9		ug/L		98	60 - 140
1,1,2-Trichloroethane	0.41	U	50.0	51.6		ug/L		103	75 - 127
1,1,2-Trichloroethane	0.41	U	50.0	51.6		ug/L		103	75 - 127

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 670-27487-1 MS
Matrix: Water
Analysis Batch: 124041

Client Sample ID: LC34-DPT0932-008.0-20230925
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethane	0.64	U	50.0	46.0		ug/L		92	72 - 125
1,1-Dichloroethane	0.64	U	50.0	46.0		ug/L		92	72 - 125
1,1-Dichloroethene	0.74	U	50.0	48.7		ug/L		97	59 - 172
1,1-Dichloroethene	0.74	U	50.0	48.7		ug/L		97	59 - 172
1,2,4-Trichlorobenzene	1.8	U	50.0	55.2		ug/L		110	75 - 135
1,2,4-Trichlorobenzene	1.8	U	50.0	55.2		ug/L		110	75 - 135
1,2-Dibromo-3-Chloropropane	0.67	U	50.0	58.0		ug/L		116	59 - 125
1,2-Dibromo-3-Chloropropane	0.67	U	50.0	58.0		ug/L		116	59 - 125
1,2-Dibromoethane (EDB)	1.0	U	50.0	52.2		ug/L		104	73 - 125
1,2-Dibromoethane (EDB)	1.0	U	50.0	52.2		ug/L		104	73 - 125
1,2-Dichlorobenzene	0.43	U	50.0	54.0		ug/L		108	75 - 125
1,2-Dichlorobenzene	0.43	U	50.0	54.0		ug/L		108	75 - 125
1,2-Dichloroethane	0.37	U	50.0	48.1		ug/L		96	68 - 127
1,2-Dichloroethane	0.37	U	50.0	48.1		ug/L		96	68 - 127
1,2-Dichloropropane	0.56	U	50.0	48.8		ug/L		98	74 - 125
1,2-Dichloropropane	0.56	U	50.0	48.8		ug/L		98	74 - 125
1,3-Dichlorobenzene	0.41	U	50.0	54.1		ug/L		108	75 - 125
1,3-Dichlorobenzene	0.41	U	50.0	54.1		ug/L		108	75 - 125
1,4-Dichlorobenzene	0.45	U	50.0	53.6		ug/L		107	75 - 125
1,4-Dichlorobenzene	0.45	U	50.0	53.6		ug/L		107	75 - 125
2-Butanone (MEK)	8.3	U	250	249		ug/L		100	60 - 140
2-Butanone (MEK)	8.3	U	250	249		ug/L		100	60 - 140
2-Hexanone	7.4	U	250	270		ug/L		108	60 - 140
2-Hexanone	7.4	U	250	270		ug/L		108	60 - 140
4-Methyl-2-pentanone	7.5	U	250	256		ug/L		102	60 - 140
4-Methyl-2-pentanone	7.5	U	250	256		ug/L		102	60 - 140
Acetone	3.1	U	250	212		ug/L		85	60 - 140
Acetone	3.1	U	250	212		ug/L		85	60 - 140
Benzene	0.46	U	50.0	49.0		ug/L		98	66 - 142
Benzene	0.46	U	50.0	49.0		ug/L		98	66 - 142
Bromodichloromethane	0.55	U	50.0	49.2		ug/L		98	75 - 125
Bromodichloromethane	0.55	U	50.0	49.2		ug/L		98	75 - 125
Bromoform	0.63	U	50.0	52.3		ug/L		105	75 - 125
Bromoform	0.63	U	50.0	52.3		ug/L		105	75 - 125
Bromomethane	1.4	U	50.0	44.3		ug/L		89	60 - 140
Bromomethane	1.4	U	50.0	44.3		ug/L		89	60 - 140
Carbon disulfide	0.78	U	50.0	48.1		ug/L		96	60 - 140
Carbon disulfide	0.78	U	50.0	48.1		ug/L		96	60 - 140
Carbon tetrachloride	0.90	U	50.0	51.5		ug/L		103	62 - 125
Carbon tetrachloride	0.90	U	50.0	51.5		ug/L		103	62 - 125
Chlorobenzene	0.46	U	50.0	51.1		ug/L		102	60 - 133
Chlorobenzene	0.46	U	50.0	51.1		ug/L		102	60 - 133
Chloroethane	2.0	U	50.0	46.6		ug/L		93	60 - 140
Chloroethane	2.0	U	50.0	46.6		ug/L		93	60 - 140
Chloroform	0.46	U	50.0	48.5		ug/L		97	70 - 130
Chloroform	0.46	U	50.0	48.5		ug/L		97	70 - 130
Chloromethane	2.0	U	50.0	47.1		ug/L		94	60 - 140
Chloromethane	2.0	U	50.0	47.1		ug/L		94	60 - 140
cis-1,2-Dichloroethene	19		50.0	67.3		ug/L		96	75 - 125

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 670-27487-1 MS
Matrix: Water
Analysis Batch: 124041

Client Sample ID: LC34-DPT0932-008.0-20230925
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
cis-1,2-Dichloroethene	19		50.0	67.3		ug/L		96	75 - 125
cis-1,3-Dichloropropene	1.1	U	50.0	50.9		ug/L		102	74 - 125
cis-1,3-Dichloropropene	1.1	U	50.0	50.9		ug/L		102	74 - 125
Cyclohexane	1.3	U	50.0	47.8		ug/L		96	70 - 130
Cyclohexane	1.3	U	50.0	47.8		ug/L		96	70 - 130
Dibromochloromethane	0.55	U	50.0	51.5		ug/L		103	73 - 125
Dibromochloromethane	0.55	U	50.0	51.5		ug/L		103	73 - 125
Dichlorodifluoromethane	0.79	U	50.0	47.7		ug/L		95	70 - 130
Dichlorodifluoromethane	0.79	U	50.0	47.7		ug/L		95	70 - 130
Ethylbenzene	0.39	U	50.0	53.0		ug/L		106	75 - 125
Ethylbenzene	0.39	U	50.0	53.0		ug/L		106	75 - 125
Isopropylbenzene	0.59	U	50.0	53.9		ug/L		108	75 - 125
Isopropylbenzene	0.59	U	50.0	53.9		ug/L		108	75 - 125
m,p-Xylenes	1.2	U	50.0	52.8		ug/L		106	75 - 125
m,p-Xylenes	1.2	U	50.0	52.8		ug/L		106	75 - 125
Methyl acetate	4.0	U	100	95.4		ug/L		95	60 - 140
Methyl acetate	4.0	U	100	95.4		ug/L		95	60 - 140
Methyl tert-butyl ether	1.4	U	50.0	48.7		ug/L		97	65 - 135
Methyl tert-butyl ether	1.4	U	50.0	48.7		ug/L		97	65 - 135
Methylene Chloride	1.7	U	50.0	44.8		ug/L		90	75 - 125
Methylene Chloride	1.7	U	50.0	44.8		ug/L		90	75 - 125
o-Xylene	0.50	U	50.0	53.6		ug/L		107	75 - 125
o-Xylene	0.50	U	50.0	53.6		ug/L		107	75 - 125
Styrene	0.62	U	50.0	54.2		ug/L		108	75 - 125
Styrene	0.62	U	50.0	54.2		ug/L		108	75 - 125
Tetrachloroethene	0.66	U	50.0	51.7		ug/L		103	71 - 125
Tetrachloroethene	0.66	U	50.0	51.7		ug/L		103	71 - 125
Toluene	0.48	U	50.0	50.6		ug/L		101	59 - 139
Toluene	0.48	U	50.0	50.6		ug/L		101	59 - 139
trans-1,2-Dichloroethene	0.37	U	50.0	48.3		ug/L		97	75 - 125
trans-1,2-Dichloroethene	0.37	U	50.0	48.3		ug/L		97	75 - 125
trans-1,3-Dichloropropene	1.3	U	50.0	53.6		ug/L		107	66 - 125
trans-1,3-Dichloropropene	1.3	U	50.0	53.6		ug/L		107	66 - 125
Trichloroethene	0.79	U	50.0	49.2		ug/L		98	62 - 137
Trichloroethene	0.79	U	50.0	49.2		ug/L		98	62 - 137
Trichlorofluoromethane	0.56	U	50.0	51.3		ug/L		103	60 - 140
Trichlorofluoromethane	0.56	U	50.0	51.3		ug/L		103	60 - 140
Vinyl chloride	79		50.0	124		ug/L		90	60 - 140
Vinyl chloride	79		50.0	124		ug/L		90	60 - 140
Xylenes, Total	1.2	U	100	106		ug/L		106	75 - 125
Xylenes, Total	1.2	U	100	106		ug/L		106	75 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*63 - 144*
1,2-Dichloroethane-d4 (Surr)	*97*		*63 - 144*
4-Bromofluorobenzene (Surr)	*105*		*74 - 124*
4-Bromofluorobenzene (Surr)	*105*		*74 - 124*
Dibromofluoromethane (Surr)	*99*		*75 - 131*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 670-27487-1 MS
Matrix: Water
Analysis Batch: 124041

Client Sample ID: LC34-DPT0932-008.0-20230925
Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
Dibromofluoromethane (Surr)	*99*		*75 - 131*
Toluene-d8 (Surr)	*103*		*80 - 120*
Toluene-d8 (Surr)	*103*		*80 - 120*

Lab Sample ID: MB 860-124262/8
Matrix: Water
Analysis Batch: 124262

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.59	U	5.0	0.59	ug/L			10/02/23 11:12	1
1,1,2,2-Tetrachloroethane	0.47	U	1.0	0.47	ug/L			10/02/23 11:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	10	1.1	ug/L			10/02/23 11:12	1
1,1,2-Trichloroethane	0.41	U	1.0	0.41	ug/L			10/02/23 11:12	1
1,1-Dichloroethane	0.64	U	1.0	0.64	ug/L			10/02/23 11:12	1
1,1-Dichloroethene	0.74	U	1.0	0.74	ug/L			10/02/23 11:12	1
1,2,4-Trichlorobenzene	1.8	U	5.0	1.8	ug/L			10/02/23 11:12	1
1,2-Dibromo-3-Chloropropane	0.67	U	5.0	0.67	ug/L			10/02/23 11:12	1
1,2-Dibromoethane (EDB)	1.0	U	5.0	1.0	ug/L			10/02/23 11:12	1
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			10/02/23 11:12	1
1,2-Dichloroethane	0.37	U	1.0	0.37	ug/L			10/02/23 11:12	1
1,2-Dichloropropane	0.56	U	5.0	0.56	ug/L			10/02/23 11:12	1
1,3-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			10/02/23 11:12	1
1,4-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			10/02/23 11:12	1
2-Butanone (MEK)	8.3	U	50	8.3	ug/L			10/02/23 11:12	1
2-Hexanone	7.4	U	50	7.4	ug/L			10/02/23 11:12	1
4-Methyl-2-pentanone	7.5	U	50	7.5	ug/L			10/02/23 11:12	1
Acetone	3.1	U	100	3.1	ug/L			10/02/23 11:12	1
Benzene	0.46	U	1.0	0.46	ug/L			10/02/23 11:12	1
Bromodichloromethane	0.55	U	1.0	0.55	ug/L			10/02/23 11:12	1
Bromoform	0.63	U	5.0	0.63	ug/L			10/02/23 11:12	1
Bromomethane	1.4	U	5.0	1.4	ug/L			10/02/23 11:12	1
Carbon disulfide	0.78	U	5.0	0.78	ug/L			10/02/23 11:12	1
Carbon tetrachloride	0.90	U	5.0	0.90	ug/L			10/02/23 11:12	1
Chlorobenzene	0.46	U	1.0	0.46	ug/L			10/02/23 11:12	1
Chloroethane	2.0	U	10	2.0	ug/L			10/02/23 11:12	1
Chloroform	0.46	U	1.0	0.46	ug/L			10/02/23 11:12	1
Chloromethane	2.0	U	10	2.0	ug/L			10/02/23 11:12	1
cis-1,2-Dichloroethene	0.46	U	1.0	0.46	ug/L			10/02/23 11:12	1
cis-1,3-Dichloropropene	1.1	U	5.0	1.1	ug/L			10/02/23 11:12	1
Cyclohexane	1.3	U	5.0	1.3	ug/L			10/02/23 11:12	1
Dibromochloromethane	0.55	U	5.0	0.55	ug/L			10/02/23 11:12	1
Dichlorodifluoromethane	0.79	U	1.0	0.79	ug/L			10/02/23 11:12	1
Ethylbenzene	0.39	U	1.0	0.39	ug/L			10/02/23 11:12	1
Isopropylbenzene	0.59	U	1.0	0.59	ug/L			10/02/23 11:12	1
m,p-Xylenes	1.2	U	10	1.2	ug/L			10/02/23 11:12	1
Methyl acetate	4.0	U	20	4.0	ug/L			10/02/23 11:12	1
Methyl tert-butyl ether	1.4	U	5.0	1.4	ug/L			10/02/23 11:12	1
Methylene Chloride	1.7	U	5.0	1.7	ug/L			10/02/23 11:12	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 860-124262/8
Matrix: Water
Analysis Batch: 124262

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	0.50	U	1.0	0.50	ug/L			10/02/23 11:12	1
Styrene	0.62	U	1.0	0.62	ug/L			10/02/23 11:12	1
Tetrachloroethene	0.66	U	1.0	0.66	ug/L			10/02/23 11:12	1
Toluene	0.48	U	1.0	0.48	ug/L			10/02/23 11:12	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			10/02/23 11:12	1
trans-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			10/02/23 11:12	1
Trichloroethene	0.79	U	5.0	0.79	ug/L			10/02/23 11:12	1
Trichlorofluoromethane	0.56	U	1.0	0.56	ug/L			10/02/23 11:12	1
Vinyl chloride	0.43	U	2.0	0.43	ug/L			10/02/23 11:12	1
Xylenes, Total	1.2	U	10	1.2	ug/L			10/02/23 11:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*63 - 144*		*10/02/23 11:12*	*1*
4-Bromofluorobenzene (Surr)	*101*		*74 - 124*		*10/02/23 11:12*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 131*		*10/02/23 11:12*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*10/02/23 11:12*	*1*

Lab Sample ID: LCS 860-124262/3
Matrix: Water
Analysis Batch: 124262

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	49.2		ug/L		98	70 - 130
1,1,2,2-Tetrachloroethane	50.0	42.2		ug/L		84	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	51.2		ug/L		102	60 - 140
1,1,2-Trichloroethane	50.0	45.5		ug/L		91	70 - 130
1,1-Dichloroethane	50.0	46.3		ug/L		93	70 - 130
1,1-Dichloroethene	50.0	49.4		ug/L		99	50 - 150
1,2,4-Trichlorobenzene	50.0	49.8		ug/L		100	75 - 135
1,2-Dibromo-3-Chloropropane	50.0	43.5		ug/L		87	59 - 125
1,2-Dibromoethane (EDB)	50.0	47.2		ug/L		94	73 - 125
1,2-Dichlorobenzene	50.0	46.5		ug/L		93	75 - 125
1,2-Dichloroethane	50.0	47.2		ug/L		94	72 - 130
1,2-Dichloropropane	50.0	46.0		ug/L		92	74 - 125
1,3-Dichlorobenzene	50.0	47.5		ug/L		95	75 - 125
1,4-Dichlorobenzene	50.0	47.2		ug/L		94	75 - 125
2-Butanone (MEK)	250	211		ug/L		84	60 - 140
2-Hexanone	250	216		ug/L		87	60 - 140
4-Methyl-2-pentanone	250	214		ug/L		86	60 - 140
Acetone	250	221		ug/L		88	60 - 140
Benzene	50.0	46.5		ug/L		93	75 - 125
Bromodichloromethane	50.0	47.3		ug/L		95	75 - 125
Bromoform	50.0	47.9		ug/L		96	70 - 130
Bromomethane	50.0	60.3		ug/L		121	60 - 140
Carbon disulfide	50.0	48.9		ug/L		98	60 - 140
Carbon tetrachloride	50.0	47.6		ug/L		95	70 - 130
Chlorobenzene	50.0	46.8		ug/L		94	65 - 135
Chloroethane	50.0	52.8		ug/L		106	60 - 140

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-124262/3
Matrix: Water
Analysis Batch: 124262

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloroform	50.0	46.8		ug/L		94	70 - 121
Chloromethane	50.0	53.5		ug/L		107	60 - 140
cis-1,2-Dichloroethene	50.0	46.0		ug/L		92	75 - 125
cis-1,3-Dichloropropene	50.0	48.3		ug/L		97	74 - 125
Cyclohexane	50.0	49.4		ug/L		99	70 - 130
Dibromochloromethane	50.0	48.0		ug/L		96	73 - 125
Dichlorodifluoromethane	50.0	56.8		ug/L		114	50 - 150
Ethylbenzene	50.0	46.9		ug/L		94	75 - 125
Isopropylbenzene	50.0	47.7		ug/L		95	75 - 125
m,p-Xylenes	50.0	47.2		ug/L		94	75 - 125
Methyl acetate	100	84.8		ug/L		85	60 - 140
Methyl tert-butyl ether	50.0	49.5		ug/L		99	65 - 135
Methylene Chloride	50.0	45.1		ug/L		90	71 - 125
o-Xylene	50.0	46.7		ug/L		93	75 - 125
Styrene	50.0	47.4		ug/L		95	75 - 125
Tetrachloroethene	50.0	49.6		ug/L		99	71 - 125
Toluene	50.0	47.2		ug/L		94	70 - 130
trans-1,2-Dichloroethene	50.0	52.4		ug/L		105	75 - 125
trans-1,3-Dichloropropene	50.0	49.3		ug/L		99	66 - 125
Trichloroethene	50.0	50.2		ug/L		100	75 - 135
Trichlorofluoromethane	50.0	64.5		ug/L		129	60 - 140
Vinyl chloride	50.0	50.4		ug/L		101	60 - 140
Xylenes, Total	100	93.9		ug/L		94	75 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*63 - 144*
4-Bromofluorobenzene (Surr)	*99*		*74 - 124*
Dibromofluoromethane (Surr)	*101*		*75 - 131*
Toluene-d8 (Surr)	*99*		*80 - 120*

Lab Sample ID: LCSD 860-124262/4
Matrix: Water
Analysis Batch: 124262

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	50.0	48.1		ug/L		96	70 - 130	2	25
1,1,2,2-Tetrachloroethane	50.0	42.3		ug/L		85	74 - 125	0	25
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	48.7		ug/L		97	60 - 140	5	25
1,1,2-Trichloroethane	50.0	45.5		ug/L		91	70 - 130	0	25
1,1-Dichloroethane	50.0	44.4		ug/L		89	70 - 130	4	25
1,1-Dichloroethene	50.0	48.8		ug/L		98	50 - 150	1	25
1,2,4-Trichlorobenzene	50.0	49.0		ug/L		98	75 - 135	2	25
1,2-Dibromo-3-Chloropropane	50.0	44.0		ug/L		88	59 - 125	1	25
1,2-Dibromoethane (EDB)	50.0	47.0		ug/L		94	73 - 125	0	25
1,2-Dichlorobenzene	50.0	45.7		ug/L		91	75 - 125	2	25
1,2-Dichloroethane	50.0	46.2		ug/L		92	72 - 130	2	25
1,2-Dichloropropane	50.0	44.7		ug/L		89	74 - 125	3	25
1,3-Dichlorobenzene	50.0	46.3		ug/L		93	75 - 125	3	25

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-124262/4
Matrix: Water
Analysis Batch: 124262

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dichlorobenzene			50.0	45.9		ug/L		92	75 - 125	3	25
2-Butanone (MEK)			250	215		ug/L		86	60 - 140	2	25
2-Hexanone			250	219		ug/L		88	60 - 140	1	25
4-Methyl-2-pentanone			250	218		ug/L		87	60 - 140	2	25
Acetone			250	221		ug/L		88	60 - 140	0	25
Benzene			50.0	45.3		ug/L		91	75 - 125	3	25
Bromodichloromethane			50.0	46.1		ug/L		92	75 - 125	3	25
Bromoform			50.0	47.7		ug/L		95	70 - 130	0	25
Bromomethane			50.0	57.9		ug/L		116	60 - 140	4	25
Carbon disulfide			50.0	47.3		ug/L		95	60 - 140	3	25
Carbon tetrachloride			50.0	46.7		ug/L		93	70 - 130	2	25
Chlorobenzene			50.0	45.7		ug/L		91	65 - 135	2	25
Chloroethane			50.0	48.8		ug/L		98	60 - 140	8	25
Chloroform			50.0	45.5		ug/L		91	70 - 121	3	25
Chloromethane			50.0	52.2		ug/L		104	60 - 140	2	25
cis-1,2-Dichloroethene			50.0	44.8		ug/L		90	75 - 125	3	25
cis-1,3-Dichloropropene			50.0	47.0		ug/L		94	74 - 125	3	25
Cyclohexane			50.0	48.5		ug/L		97	70 - 130	2	25
Dibromochloromethane			50.0	47.7		ug/L		95	73 - 125	1	25
Dichlorodifluoromethane			50.0	55.6		ug/L		111	50 - 150	2	25
Ethylbenzene			50.0	45.7		ug/L		91	75 - 125	3	25
Isopropylbenzene			50.0	47.0		ug/L		94	75 - 125	1	25
m,p-Xylenes			50.0	46.2		ug/L		92	75 - 125	2	25
Methyl acetate			100	83.6		ug/L		84	60 - 140	1	25
Methyl tert-butyl ether			50.0	49.0		ug/L		98	65 - 135	1	25
Methylene Chloride			50.0	43.5		ug/L		87	71 - 125	3	25
o-Xylene			50.0	45.6		ug/L		91	75 - 125	2	25
Styrene			50.0	46.2		ug/L		92	75 - 125	2	25
Tetrachloroethene			50.0	49.1		ug/L		98	71 - 125	1	25
Toluene			50.0	45.8		ug/L		92	70 - 130	3	25
trans-1,2-Dichloroethene			50.0	49.8		ug/L		100	75 - 125	5	25
trans-1,3-Dichloropropene			50.0	48.3		ug/L		97	66 - 125	2	25
Trichloroethene			50.0	48.7		ug/L		97	75 - 135	3	25
Trichlorofluoromethane			50.0	62.4		ug/L		125	60 - 140	3	25
Vinyl chloride			50.0	49.5		ug/L		99	60 - 140	2	25
Xylenes, Total			100	91.8		ug/L		92	75 - 125	2	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*63 - 144*
4-Bromofluorobenzene (Surr)	*99*		*74 - 124*
Dibromofluoromethane (Surr)	*99*		*75 - 131*
Toluene-d8 (Surr)	*99*		*80 - 120*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 670-27487-7 MS
Matrix: Water
Analysis Batch: 124262

Client Sample ID: LC34-DPT0933-008.0-20230925
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.59	U	50.0	40.7		ug/L		81	75 - 125
1,1,1-Trichloroethane	0.59	U	50.0	40.7		ug/L		81	75 - 125
1,1,2,2-Tetrachloroethane	0.47	U J3	50.0	35.8	J3	ug/L		72	74 - 125
1,1,2,2-Tetrachloroethane	0.47	U J3	50.0	35.8	J3	ug/L		72	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	50.0	39.4		ug/L		79	60 - 140
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	50.0	39.4		ug/L		79	60 - 140
1,1,2-Trichloroethane	0.41	U	50.0	38.5		ug/L		77	75 - 127
1,1,2-Trichloroethane	0.41	U	50.0	38.5		ug/L		77	75 - 127
1,1-Dichloroethane	0.64	U	50.0	38.2		ug/L		76	72 - 125
1,1-Dichloroethane	0.64	U	50.0	38.2		ug/L		76	72 - 125
1,1-Dichloroethene	0.74	U	50.0	40.8		ug/L		82	59 - 172
1,1-Dichloroethene	0.74	U	50.0	40.8		ug/L		82	59 - 172
1,2,4-Trichlorobenzene	1.8	U	50.0	42.0		ug/L		84	75 - 135
1,2,4-Trichlorobenzene	1.8	U	50.0	42.0		ug/L		84	75 - 135
1,2-Dibromo-3-Chloropropane	0.67	U	50.0	37.1		ug/L		74	59 - 125
1,2-Dibromo-3-Chloropropane	0.67	U	50.0	37.1		ug/L		74	59 - 125
1,2-Dibromoethane (EDB)	1.0	U	50.0	39.5		ug/L		79	73 - 125
1,2-Dibromoethane (EDB)	1.0	U	50.0	39.5		ug/L		79	73 - 125
1,2-Dichlorobenzene	0.43	U	50.0	39.8		ug/L		80	75 - 125
1,2-Dichlorobenzene	0.43	U	50.0	39.8		ug/L		80	75 - 125
1,2-Dichloroethane	0.37	U	50.0	40.2		ug/L		80	68 - 127
1,2-Dichloroethane	0.37	U	50.0	40.2		ug/L		80	68 - 127
1,2-Dichloropropane	0.56	U	50.0	38.5		ug/L		77	74 - 125
1,2-Dichloropropane	0.56	U	50.0	38.5		ug/L		77	74 - 125
1,3-Dichlorobenzene	0.41	U	50.0	40.2		ug/L		80	75 - 125
1,3-Dichlorobenzene	0.41	U	50.0	40.2		ug/L		80	75 - 125
1,4-Dichlorobenzene	0.45	U	50.0	39.8		ug/L		80	75 - 125
1,4-Dichlorobenzene	0.45	U	50.0	39.8		ug/L		80	75 - 125
2-Butanone (MEK)	8.3	U	250	174		ug/L		70	60 - 140
2-Butanone (MEK)	8.3	U	250	174		ug/L		70	60 - 140
2-Hexanone	7.4	U	250	180		ug/L		72	60 - 140
2-Hexanone	7.4	U	250	180		ug/L		72	60 - 140
4-Methyl-2-pentanone	7.5	U	250	185		ug/L		74	60 - 140
4-Methyl-2-pentanone	7.5	U	250	185		ug/L		74	60 - 140
Acetone	3.1	U	250	170		ug/L		68	60 - 140
Acetone	3.1	U	250	170		ug/L		68	60 - 140
Benzene	0.46	U	50.0	39.2		ug/L		78	66 - 142
Benzene	0.46	U	50.0	39.2		ug/L		78	66 - 142
Bromodichloromethane	0.55	U	50.0	39.9		ug/L		80	75 - 125
Bromodichloromethane	0.55	U	50.0	39.9		ug/L		80	75 - 125
Bromoform	0.63	U	50.0	40.2		ug/L		80	75 - 125
Bromoform	0.63	U	50.0	40.2		ug/L		80	75 - 125
Bromomethane	1.4	U	50.0	50.6		ug/L		101	60 - 140
Bromomethane	1.4	U	50.0	50.6		ug/L		101	60 - 140
Carbon disulfide	0.78	U	50.0	39.8		ug/L		80	60 - 140
Carbon disulfide	0.78	U	50.0	39.8		ug/L		80	60 - 140
Carbon tetrachloride	0.90	U	50.0	39.4		ug/L		79	62 - 125

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 670-27487-7 MS
Matrix: Water
Analysis Batch: 124262

Client Sample ID: LC34-DPT0933-008.0-20230925
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Carbon tetrachloride	0.90	U	50.0	39.4		ug/L		79	62 - 125
Chlorobenzene	0.46	U	50.0	38.9		ug/L		78	60 - 133
Chlorobenzene	0.46	U	50.0	38.9		ug/L		78	60 - 133
Chloroethane	2.0	U	50.0	51.2		ug/L		102	60 - 140
Chloroethane	2.0	U	50.0	51.2		ug/L		102	60 - 140
Chloroform	0.46	U	50.0	39.7		ug/L		79	70 - 130
Chloroform	0.46	U	50.0	39.7		ug/L		79	70 - 130
Chloromethane	2.0	U	50.0	46.2		ug/L		92	60 - 140
Chloromethane	2.0	U	50.0	46.2		ug/L		92	60 - 140
cis-1,2-Dichloroethene	0.46	U	50.0	39.0		ug/L		78	75 - 125
cis-1,2-Dichloroethene	0.46	U	50.0	39.0		ug/L		78	75 - 125
cis-1,3-Dichloropropene	1.1	U	50.0	40.9		ug/L		82	74 - 125
cis-1,3-Dichloropropene	1.1	U	50.0	40.9		ug/L		82	74 - 125
Cyclohexane	1.3	U	50.0	39.6		ug/L		79	70 - 130
Cyclohexane	1.3	U	50.0	39.6		ug/L		79	70 - 130
Dibromochloromethane	0.55	U	50.0	40.0		ug/L		80	73 - 125
Dibromochloromethane	0.55	U	50.0	40.0		ug/L		80	73 - 125
Dichlorodifluoromethane	0.79	U	50.0	44.9		ug/L		90	70 - 130
Dichlorodifluoromethane	0.79	U	50.0	44.9		ug/L		90	70 - 130
Ethylbenzene	0.39	U	50.0	39.0		ug/L		78	75 - 125
Ethylbenzene	0.39	U	50.0	39.0		ug/L		78	75 - 125
Isopropylbenzene	0.59	U	50.0	39.5		ug/L		79	75 - 125
Isopropylbenzene	0.59	U	50.0	39.5		ug/L		79	75 - 125
m,p-Xylenes	1.2	U	50.0	39.2		ug/L		78	75 - 125
m,p-Xylenes	1.2	U	50.0	39.2		ug/L		78	75 - 125
Methyl acetate	4.0	U	100	73.1		ug/L		73	60 - 140
Methyl acetate	4.0	U	100	73.1		ug/L		73	60 - 140
Methyl tert-butyl ether	1.4	U	50.0	41.5		ug/L		83	65 - 135
Methyl tert-butyl ether	1.4	U	50.0	41.5		ug/L		83	65 - 135
Methylene Chloride	1.7	U	50.0	38.1		ug/L		76	75 - 125
Methylene Chloride	1.7	U	50.0	38.1		ug/L		76	75 - 125
o-Xylene	0.50	U	50.0	38.9		ug/L		78	75 - 125
o-Xylene	0.50	U	50.0	38.9		ug/L		78	75 - 125
Styrene	0.62	U	50.0	39.8		ug/L		80	75 - 125
Styrene	0.62	U	50.0	39.8		ug/L		80	75 - 125
Tetrachloroethene	0.66	U	50.0	40.6		ug/L		81	71 - 125
Tetrachloroethene	0.66	U	50.0	40.6		ug/L		81	71 - 125
Toluene	0.48	U	50.0	39.1		ug/L		78	59 - 139
Toluene	0.48	U	50.0	39.1		ug/L		78	59 - 139
trans-1,2-Dichloroethene	0.37	U	50.0	42.7		ug/L		85	75 - 125
trans-1,2-Dichloroethene	0.37	U	50.0	42.7		ug/L		85	75 - 125
trans-1,3-Dichloropropene	1.3	U	50.0	41.2		ug/L		82	66 - 125
trans-1,3-Dichloropropene	1.3	U	50.0	41.2		ug/L		82	66 - 125
Trichloroethene	0.79	U	50.0	41.2		ug/L		82	62 - 137
Trichloroethene	0.79	U	50.0	41.2		ug/L		82	62 - 137
Trichlorofluoromethane	0.56	U	50.0	52.7		ug/L		105	60 - 140
Trichlorofluoromethane	0.56	U	50.0	52.7		ug/L		105	60 - 140
Vinyl chloride	19		50.0	61.9		ug/L		85	60 - 140
Vinyl chloride	19		50.0	61.9		ug/L		85	60 - 140

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 670-27487-7 MS
Matrix: Water
Analysis Batch: 124262

Client Sample ID: LC34-DPT0933-008.0-20230925
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Xylenes, Total	1.2	U	100	78.1		ug/L		78	75 - 125
Xylenes, Total	1.2	U	100	78.1		ug/L		78	75 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*63 - 144*
1,2-Dichloroethane-d4 (Surr)	*96*		*63 - 144*
4-Bromofluorobenzene (Surr)	*99*		*74 - 124*
4-Bromofluorobenzene (Surr)	*99*		*74 - 124*
Dibromofluoromethane (Surr)	*102*		*75 - 131*
Dibromofluoromethane (Surr)	*102*		*75 - 131*
Toluene-d8 (Surr)	*98*		*80 - 120*
Toluene-d8 (Surr)	*98*		*80 - 120*

Lab Sample ID: MB 860-124265/9
Matrix: Water
Analysis Batch: 124265

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.59	U	5.0	0.59	ug/L			10/02/23 09:42	1
1,1,2,2-Tetrachloroethane	0.47	U	1.0	0.47	ug/L			10/02/23 09:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	10	1.1	ug/L			10/02/23 09:42	1
1,1,2-Trichloroethane	0.41	U	1.0	0.41	ug/L			10/02/23 09:42	1
1,1-Dichloroethane	0.64	U	1.0	0.64	ug/L			10/02/23 09:42	1
1,1-Dichloroethene	0.74	U	1.0	0.74	ug/L			10/02/23 09:42	1
1,2,4-Trichlorobenzene	1.8	U	5.0	1.8	ug/L			10/02/23 09:42	1
1,2-Dibromo-3-Chloropropane	0.67	U	5.0	0.67	ug/L			10/02/23 09:42	1
1,2-Dibromoethane (EDB)	1.0	U	5.0	1.0	ug/L			10/02/23 09:42	1
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			10/02/23 09:42	1
1,2-Dichloroethane	0.37	U	1.0	0.37	ug/L			10/02/23 09:42	1
1,2-Dichloropropane	0.56	U	5.0	0.56	ug/L			10/02/23 09:42	1
1,3-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			10/02/23 09:42	1
1,4-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			10/02/23 09:42	1
2-Butanone (MEK)	8.3	U	50	8.3	ug/L			10/02/23 09:42	1
2-Hexanone	7.4	U	50	7.4	ug/L			10/02/23 09:42	1
4-Methyl-2-pentanone	7.5	U	50	7.5	ug/L			10/02/23 09:42	1
Acetone	3.1	U	100	3.1	ug/L			10/02/23 09:42	1
Benzene	0.46	U	1.0	0.46	ug/L			10/02/23 09:42	1
Bromodichloromethane	0.55	U	1.0	0.55	ug/L			10/02/23 09:42	1
Bromoform	0.63	U	5.0	0.63	ug/L			10/02/23 09:42	1
Bromomethane	1.4	U	5.0	1.4	ug/L			10/02/23 09:42	1
Carbon disulfide	0.78	U	5.0	0.78	ug/L			10/02/23 09:42	1
Carbon tetrachloride	0.90	U	5.0	0.90	ug/L			10/02/23 09:42	1
Chlorobenzene	0.46	U	1.0	0.46	ug/L			10/02/23 09:42	1
Chloroethane	2.0	U	10	2.0	ug/L			10/02/23 09:42	1
Chloroform	0.46	U	1.0	0.46	ug/L			10/02/23 09:42	1
Chloromethane	2.0	U	10	2.0	ug/L			10/02/23 09:42	1
cis-1,2-Dichloroethene	0.46	U	1.0	0.46	ug/L			10/02/23 09:42	1
cis-1,3-Dichloropropene	1.1	U	5.0	1.1	ug/L			10/02/23 09:42	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 860-124265/9
Matrix: Water
Analysis Batch: 124265

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	1.3	U	5.0	1.3	ug/L			10/02/23 09:42	1
Dibromochloromethane	0.55	U	5.0	0.55	ug/L			10/02/23 09:42	1
Dichlorodifluoromethane	0.79	U	1.0	0.79	ug/L			10/02/23 09:42	1
Ethylbenzene	0.39	U	1.0	0.39	ug/L			10/02/23 09:42	1
Isopropylbenzene	0.59	U	1.0	0.59	ug/L			10/02/23 09:42	1
m,p-Xylenes	1.2	U	10	1.2	ug/L			10/02/23 09:42	1
Methyl acetate	4.0	U	20	4.0	ug/L			10/02/23 09:42	1
Methyl tert-butyl ether	1.4	U	5.0	1.4	ug/L			10/02/23 09:42	1
Methylene Chloride	1.7	U	5.0	1.7	ug/L			10/02/23 09:42	1
o-Xylene	0.50	U	1.0	0.50	ug/L			10/02/23 09:42	1
Styrene	0.62	U	1.0	0.62	ug/L			10/02/23 09:42	1
Tetrachloroethene	0.66	U	1.0	0.66	ug/L			10/02/23 09:42	1
Toluene	0.48	U	1.0	0.48	ug/L			10/02/23 09:42	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			10/02/23 09:42	1
trans-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			10/02/23 09:42	1
Trichloroethene	0.79	U	5.0	0.79	ug/L			10/02/23 09:42	1
Trichlorofluoromethane	0.56	U	1.0	0.56	ug/L			10/02/23 09:42	1
Vinyl chloride	0.43	U	2.0	0.43	ug/L			10/02/23 09:42	1
Xylenes, Total	1.2	U	10	1.2	ug/L			10/02/23 09:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*63 - 144*		*10/02/23 09:42*	*1*
4-Bromofluorobenzene (Surr)	*109*		*74 - 124*		*10/02/23 09:42*	*1*
Dibromofluoromethane (Surr)	*105*		*75 - 131*		*10/02/23 09:42*	*1*
Toluene-d8 (Surr)	*110*		*80 - 120*		*10/02/23 09:42*	*1*

Lab Sample ID: LCS 860-124265/3
Matrix: Water
Analysis Batch: 124265

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	47.7		ug/L		95	70 - 130
1,1,2,2-Tetrachloroethane	50.0	49.7		ug/L		99	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	46.4		ug/L		93	60 - 140
1,1,2-Trichloroethane	50.0	49.2		ug/L		98	70 - 130
1,1-Dichloroethane	50.0	48.8		ug/L		98	70 - 130
1,1-Dichloroethene	50.0	46.6		ug/L		93	50 - 150
1,2,4-Trichlorobenzene	50.0	51.1		ug/L		102	75 - 135
1,2-Dibromo-3-Chloropropane	50.0	53.2		ug/L		106	59 - 125
1,2-Dibromoethane (EDB)	50.0	49.9		ug/L		100	73 - 125
1,2-Dichlorobenzene	50.0	51.3		ug/L		103	75 - 125
1,2-Dichloroethane	50.0	49.3		ug/L		99	72 - 130
1,2-Dichloropropane	50.0	49.1		ug/L		98	74 - 125
1,3-Dichlorobenzene	50.0	51.0		ug/L		102	75 - 125
1,4-Dichlorobenzene	50.0	51.0		ug/L		102	75 - 125
2-Butanone (MEK)	250	240		ug/L		96	60 - 140
2-Hexanone	250	249		ug/L		100	60 - 140
4-Methyl-2-pentanone	250	250		ug/L		100	60 - 140

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-124265/3
Matrix: Water
Analysis Batch: 124265

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	250	215		ug/L		86	60 - 140
Benzene	50.0	49.0		ug/L		98	75 - 125
Bromodichloromethane	50.0	50.4		ug/L		101	75 - 125
Bromoform	50.0	52.1		ug/L		104	70 - 130
Bromomethane	50.0	49.9		ug/L		100	60 - 140
Carbon disulfide	50.0	46.6		ug/L		93	60 - 140
Carbon tetrachloride	50.0	50.0		ug/L		100	70 - 130
Chlorobenzene	50.0	49.2		ug/L		98	65 - 135
Chloroethane	50.0	51.4		ug/L		103	60 - 140
Chloroform	50.0	48.8		ug/L		98	70 - 121
Chloromethane	50.0	50.5		ug/L		101	60 - 140
cis-1,2-Dichloroethene	50.0	48.6		ug/L		97	75 - 125
cis-1,3-Dichloropropene	50.0	51.6		ug/L		103	74 - 125
Cyclohexane	50.0	47.8		ug/L		96	70 - 130
Dibromochloromethane	50.0	51.7		ug/L		103	73 - 125
Dichlorodifluoromethane	50.0	54.4		ug/L		109	50 - 150
Ethylbenzene	50.0	50.4		ug/L		101	75 - 125
Isopropylbenzene	50.0	52.0		ug/L		104	75 - 125
m,p-Xylenes	50.0	50.1		ug/L		100	75 - 125
Methyl acetate	100	96.6		ug/L		97	60 - 140
Methyl tert-butyl ether	50.0	48.4		ug/L		97	65 - 135
Methylene Chloride	50.0	45.1		ug/L		90	71 - 125
o-Xylene	50.0	50.8		ug/L		102	75 - 125
Styrene	50.0	52.0		ug/L		104	75 - 125
Tetrachloroethene	50.0	48.2		ug/L		96	71 - 125
Toluene	50.0	47.8		ug/L		96	70 - 130
trans-1,2-Dichloroethene	50.0	48.3		ug/L		97	75 - 125
trans-1,3-Dichloropropene	50.0	51.9		ug/L		104	66 - 125
Trichloroethene	50.0	49.3		ug/L		99	75 - 135
Trichlorofluoromethane	50.0	52.0		ug/L		104	60 - 140
Vinyl chloride	50.0	49.4		ug/L		99	60 - 140
Xylenes, Total	100	101		ug/L		101	75 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*63 - 144*
4-Bromofluorobenzene (Surr)	*102*		*74 - 124*
Dibromofluoromethane (Surr)	*98*		*75 - 131*
Toluene-d8 (Surr)	*103*		*80 - 120*

Lab Sample ID: LCSD 860-124265/4
Matrix: Water
Analysis Batch: 124265

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	50.0	46.2		ug/L		92	70 - 130	3	25
1,1,2,2-Tetrachloroethane	50.0	49.8		ug/L		100	74 - 125	0	25
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	44.7		ug/L		89	60 - 140	4	25
1,1,2-Trichloroethane	50.0	49.2		ug/L		98	70 - 130	0	25

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-124265/4
Matrix: Water
Analysis Batch: 124265

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1-Dichloroethane			50.0	44.9		ug/L		90	70 - 130	8	25
1,1-Dichloroethene			50.0	45.5		ug/L		91	50 - 150	2	25
1,2,4-Trichlorobenzene			50.0	51.3		ug/L		103	75 - 135	0	25
1,2-Dibromo-3-Chloropropane			50.0	53.4		ug/L		107	59 - 125	0	25
1,2-Dibromoethane (EDB)			50.0	49.8		ug/L		100	73 - 125	0	25
1,2-Dichlorobenzene			50.0	50.5		ug/L		101	75 - 125	2	25
1,2-Dichloroethane			50.0	48.3		ug/L		97	72 - 130	2	25
1,2-Dichloropropane			50.0	47.9		ug/L		96	74 - 125	2	25
1,3-Dichlorobenzene			50.0	50.5		ug/L		101	75 - 125	1	25
1,4-Dichlorobenzene			50.0	49.9		ug/L		100	75 - 125	2	25
2-Butanone (MEK)			250	242		ug/L		97	60 - 140	0	25
2-Hexanone			250	251		ug/L		100	60 - 140	1	25
4-Methyl-2-pentanone			250	249		ug/L		99	60 - 140	1	25
Acetone			250	214		ug/L		85	60 - 140	0	25
Benzene			50.0	47.0		ug/L		94	75 - 125	4	25
Bromodichloromethane			50.0	49.0		ug/L		98	75 - 125	3	25
Bromoform			50.0	51.6		ug/L		103	70 - 130	1	25
Bromomethane			50.0	47.7		ug/L		95	60 - 140	5	25
Carbon disulfide			50.0	44.4		ug/L		89	60 - 140	5	25
Carbon tetrachloride			50.0	48.7		ug/L		97	70 - 130	3	25
Chlorobenzene			50.0	48.0		ug/L		96	65 - 135	2	25
Chloroethane			50.0	48.2		ug/L		96	60 - 140	6	25
Chloroform			50.0	47.2		ug/L		94	70 - 121	3	25
Chloromethane			50.0	48.3		ug/L		97	60 - 140	5	25
cis-1,2-Dichloroethene			50.0	47.1		ug/L		94	75 - 125	3	25
cis-1,3-Dichloropropene			50.0	50.0		ug/L		100	74 - 125	3	25
Cyclohexane			50.0	45.2		ug/L		90	70 - 130	5	25
Dibromochloromethane			50.0	51.1		ug/L		102	73 - 125	1	25
Dichlorodifluoromethane			50.0	52.0		ug/L		104	50 - 150	5	25
Ethylbenzene			50.0	49.2		ug/L		98	75 - 125	2	25
Isopropylbenzene			50.0	50.7		ug/L		101	75 - 125	3	25
m,p-Xylenes			50.0	49.2		ug/L		98	75 - 125	2	25
Methyl acetate			100	95.8		ug/L		96	60 - 140	1	25
Methyl tert-butyl ether			50.0	47.3		ug/L		95	65 - 135	2	25
Methylene Chloride			50.0	43.4		ug/L		87	71 - 125	4	25
o-Xylene			50.0	50.2		ug/L		100	75 - 125	1	25
Styrene			50.0	51.3		ug/L		103	75 - 125	1	25
Tetrachloroethene			50.0	47.4		ug/L		95	71 - 125	2	25
Toluene			50.0	46.8		ug/L		94	70 - 130	2	25
trans-1,2-Dichloroethene			50.0	44.9		ug/L		90	75 - 125	7	25
trans-1,3-Dichloropropene			50.0	51.3		ug/L		103	66 - 125	1	25
Trichloroethene			50.0	47.4		ug/L		95	75 - 135	4	25
Trichlorofluoromethane			50.0	49.3		ug/L		99	60 - 140	5	25
Vinyl chloride			50.0	47.2		ug/L		94	60 - 140	5	25
Xylenes, Total			100	99.4		ug/L		99	75 - 125	1	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*63 - 144*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-124265/4
Matrix: Water
Analysis Batch: 124265

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	*101*		*74 - 124*
Dibromofluoromethane (Surr)	*98*		*75 - 131*
Toluene-d8 (Surr)	*104*		*80 - 120*

Lab Sample ID: 670-27487-5 MS
Matrix: Water
Analysis Batch: 124265

Client Sample ID: LC34-DPT0932-034.0-20230925
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.59	U	50.0	51.7		ug/L		103	75 - 125
1,1,1-Trichloroethane	0.59	U	50.0	51.7		ug/L		103	75 - 125
1,1,2,2-Tetrachloroethane	0.47	U	50.0	57.1		ug/L		114	74 - 125
1,1,2,2-Tetrachloroethane	0.47	U	50.0	57.1		ug/L		114	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	50.0	48.3		ug/L		97	60 - 140
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	50.0	48.3		ug/L		97	60 - 140
1,1,2-Trichloroethane	0.41	U	50.0	55.0		ug/L		110	75 - 127
1,1,2-Trichloroethane	0.41	U	50.0	55.0		ug/L		110	75 - 127
1,1-Dichloroethane	0.64	U	50.0	52.5		ug/L		105	72 - 125
1,1-Dichloroethane	0.64	U	50.0	52.5		ug/L		105	72 - 125
1,1-Dichloroethene	0.74	U	50.0	48.9		ug/L		98	59 - 172
1,1-Dichloroethene	0.74	U	50.0	48.9		ug/L		98	59 - 172
1,2,4-Trichlorobenzene	1.8	U	50.0	60.7		ug/L		121	75 - 135
1,2,4-Trichlorobenzene	1.8	U	50.0	60.7		ug/L		121	75 - 135
1,2-Dibromo-3-Chloropropane	0.67	U	50.0	57.6		ug/L		115	59 - 125
1,2-Dibromo-3-Chloropropane	0.67	U	50.0	57.6		ug/L		115	59 - 125
1,2-Dibromoethane (EDB)	1.0	U	50.0	55.2		ug/L		110	73 - 125
1,2-Dibromoethane (EDB)	1.0	U	50.0	55.2		ug/L		110	73 - 125
1,2-Dichlorobenzene	0.43	U	50.0	60.4		ug/L		121	75 - 125
1,2-Dichlorobenzene	0.43	U	50.0	60.4		ug/L		121	75 - 125
1,2-Dichloroethane	0.37	U	50.0	53.9		ug/L		108	68 - 127
1,2-Dichloroethane	0.37	U	50.0	53.9		ug/L		108	68 - 127
1,2-Dichloropropane	0.56	U	50.0	54.3		ug/L		109	74 - 125
1,2-Dichloropropane	0.56	U	50.0	54.3		ug/L		109	74 - 125
1,3-Dichlorobenzene	0.41	U	50.0	60.5		ug/L		121	75 - 125
1,3-Dichlorobenzene	0.41	U	50.0	60.5		ug/L		121	75 - 125
1,4-Dichlorobenzene	0.45	U	50.0	59.8		ug/L		120	75 - 125
1,4-Dichlorobenzene	0.45	U	50.0	59.8		ug/L		120	75 - 125
2-Butanone (MEK)	8.3	U	250	241		ug/L		97	60 - 140
2-Butanone (MEK)	8.3	U	250	241		ug/L		97	60 - 140
2-Hexanone	7.4	U	250	261		ug/L		104	60 - 140
2-Hexanone	7.4	U	250	261		ug/L		104	60 - 140
4-Methyl-2-pentanone	7.5	U	250	257		ug/L		103	60 - 140
4-Methyl-2-pentanone	7.5	U	250	257		ug/L		103	60 - 140
Acetone	3.1	U	250	210		ug/L		84	60 - 140
Acetone	3.1	U	250	210		ug/L		84	60 - 140
Benzene	0.46	U	50.0	53.5		ug/L		107	66 - 142
Benzene	0.46	U	50.0	53.5		ug/L		107	66 - 142

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 670-27487-5 MS
Matrix: Water
Analysis Batch: 124265

Client Sample ID: LC34-DPT0932-034.0-20230925
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Bromodichloromethane	0.55	U	50.0	55.3		ug/L		111	75 - 125
Bromodichloromethane	0.55	U	50.0	55.3		ug/L		111	75 - 125
Bromoform	0.63	U	50.0	56.5		ug/L		113	75 - 125
Bromoform	0.63	U	50.0	56.5		ug/L		113	75 - 125
Bromomethane	1.4	U	50.0	43.5		ug/L		87	60 - 140
Bromomethane	1.4	U	50.0	43.5		ug/L		87	60 - 140
Carbon disulfide	1.4	I	50.0	48.4		ug/L		94	60 - 140
Carbon disulfide	1.4	I	50.0	48.4		ug/L		94	60 - 140
Carbon tetrachloride	0.90	U	50.0	54.2		ug/L		108	62 - 125
Carbon tetrachloride	0.90	U	50.0	54.2		ug/L		108	62 - 125
Chlorobenzene	0.46	U	50.0	56.7		ug/L		113	60 - 133
Chlorobenzene	0.46	U	50.0	56.7		ug/L		113	60 - 133
Chloroethane	2.0	U	50.0	44.6		ug/L		89	60 - 140
Chloroethane	2.0	U	50.0	44.6		ug/L		89	60 - 140
Chloroform	0.46	U	50.0	52.7		ug/L		105	70 - 130
Chloroform	0.46	U	50.0	52.7		ug/L		105	70 - 130
Chloromethane	2.0	U	50.0	47.1		ug/L		94	60 - 140
Chloromethane	2.0	U	50.0	47.1		ug/L		94	60 - 140
cis-1,2-Dichloroethene	1.1		50.0	53.9		ug/L		106	75 - 125
cis-1,2-Dichloroethene	1.1		50.0	53.9		ug/L		106	75 - 125
cis-1,3-Dichloropropene	1.1	U	50.0	56.7		ug/L		113	74 - 125
cis-1,3-Dichloropropene	1.1	U	50.0	56.7		ug/L		113	74 - 125
Cyclohexane	1.3	U	50.0	49.6		ug/L		99	70 - 130
Cyclohexane	1.3	U	50.0	49.6		ug/L		99	70 - 130
Dibromochloromethane	0.55	U	50.0	57.5		ug/L		115	73 - 125
Dibromochloromethane	0.55	U	50.0	57.5		ug/L		115	73 - 125
Dichlorodifluoromethane	0.79	U	50.0	41.2		ug/L		82	70 - 130
Dichlorodifluoromethane	0.79	U	50.0	41.2		ug/L		82	70 - 130
Ethylbenzene	0.39	U	50.0	58.0		ug/L		116	75 - 125
Ethylbenzene	0.39	U	50.0	58.0		ug/L		116	75 - 125
Isopropylbenzene	0.59	U	50.0	59.9		ug/L		120	75 - 125
Isopropylbenzene	0.59	U	50.0	59.9		ug/L		120	75 - 125
m,p-Xylenes	1.2	U	50.0	58.0		ug/L		116	75 - 125
m,p-Xylenes	1.2	U	50.0	58.0		ug/L		116	75 - 125
Methyl acetate	4.0	U	100	96.3		ug/L		96	60 - 140
Methyl acetate	4.0	U	100	96.3		ug/L		96	60 - 140
Methyl tert-butyl ether	1.4	U	50.0	51.5		ug/L		103	65 - 135
Methyl tert-butyl ether	1.4	U	50.0	51.5		ug/L		103	65 - 135
Methylene Chloride	1.7	U	50.0	49.0		ug/L		98	75 - 125
Methylene Chloride	1.7	U	50.0	49.0		ug/L		98	75 - 125
o-Xylene	0.50	U	50.0	58.9		ug/L		118	75 - 125
o-Xylene	0.50	U	50.0	58.9		ug/L		118	75 - 125
Styrene	0.62	U	50.0	59.6		ug/L		119	75 - 125
Styrene	0.62	U	50.0	59.6		ug/L		119	75 - 125
Tetrachloroethene	0.66	U	50.0	55.6		ug/L		111	71 - 125
Tetrachloroethene	0.66	U	50.0	55.6		ug/L		111	71 - 125
Toluene	0.48	U	50.0	54.3		ug/L		109	59 - 139
Toluene	0.48	U	50.0	54.3		ug/L		109	59 - 139
trans-1,2-Dichloroethene	0.37	U	50.0	49.6		ug/L		99	75 - 125

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 670-27487-5 MS
Matrix: Water
Analysis Batch: 124265

Client Sample ID: LC34-DPT0932-034.0-20230925
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
trans-1,2-Dichloroethene	0.37	U	50.0	49.6		ug/L		99	75 - 125
trans-1,3-Dichloropropene	1.3	U	50.0	58.5		ug/L		117	66 - 125
trans-1,3-Dichloropropene	1.3	U	50.0	58.5		ug/L		117	66 - 125
Trichloroethene	0.79	U	50.0	52.4		ug/L		105	62 - 137
Trichloroethene	0.79	U	50.0	52.4		ug/L		105	62 - 137
Trichlorofluoromethane	0.56	U	50.0	51.7		ug/L		103	60 - 140
Trichlorofluoromethane	0.56	U	50.0	51.7		ug/L		103	60 - 140
Vinyl chloride	0.43	U	50.0	46.5		ug/L		93	60 - 140
Vinyl chloride	0.43	U	50.0	46.5		ug/L		93	60 - 140
Xylenes, Total	1.2	U	100	117		ug/L		117	75 - 125
Xylenes, Total	1.2	U	100	117		ug/L		117	75 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*63 - 144*
1,2-Dichloroethane-d4 (Surr)	*96*		*63 - 144*
4-Bromofluorobenzene (Surr)	*105*		*74 - 124*
4-Bromofluorobenzene (Surr)	*105*		*74 - 124*
Dibromofluoromethane (Surr)	*98*		*75 - 131*
Dibromofluoromethane (Surr)	*98*		*75 - 131*
Toluene-d8 (Surr)	*105*		*80 - 120*
Toluene-d8 (Surr)	*105*		*80 - 120*

Lab Sample ID: MB 860-124268/9
Matrix: Water
Analysis Batch: 124268

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.59	U	5.0	0.59	ug/L			10/02/23 09:39	1
1,1,2,2-Tetrachloroethane	0.47	U	1.0	0.47	ug/L			10/02/23 09:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	10	1.1	ug/L			10/02/23 09:39	1
1,1,2-Trichloroethane	0.41	U	1.0	0.41	ug/L			10/02/23 09:39	1
1,1-Dichloroethane	0.64	U	1.0	0.64	ug/L			10/02/23 09:39	1
1,1-Dichloroethene	0.74	U	1.0	0.74	ug/L			10/02/23 09:39	1
1,2,4-Trichlorobenzene	1.8	U	5.0	1.8	ug/L			10/02/23 09:39	1
1,2-Dibromo-3-Chloropropane	0.67	U	5.0	0.67	ug/L			10/02/23 09:39	1
1,2-Dibromoethane (EDB)	1.0	U	5.0	1.0	ug/L			10/02/23 09:39	1
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			10/02/23 09:39	1
1,2-Dichloroethane	0.37	U	1.0	0.37	ug/L			10/02/23 09:39	1
1,2-Dichloropropane	0.56	U	5.0	0.56	ug/L			10/02/23 09:39	1
1,3-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			10/02/23 09:39	1
1,4-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			10/02/23 09:39	1
2-Butanone (MEK)	8.3	U	50	8.3	ug/L			10/02/23 09:39	1
2-Hexanone	7.4	U	50	7.4	ug/L			10/02/23 09:39	1
4-Methyl-2-pentanone	7.5	U	50	7.5	ug/L			10/02/23 09:39	1
Acetone	3.1	U	100	3.1	ug/L			10/02/23 09:39	1
Benzene	0.46	U	1.0	0.46	ug/L			10/02/23 09:39	1
Bromodichloromethane	0.55	U	1.0	0.55	ug/L			10/02/23 09:39	1
Bromoform	0.63	U	5.0	0.63	ug/L			10/02/23 09:39	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 860-124268/9
Matrix: Water
Analysis Batch: 124268

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	1.4	U	5.0	1.4	ug/L			10/02/23 09:39	1
Carbon disulfide	0.78	U	5.0	0.78	ug/L			10/02/23 09:39	1
Carbon tetrachloride	0.90	U	5.0	0.90	ug/L			10/02/23 09:39	1
Chlorobenzene	0.46	U	1.0	0.46	ug/L			10/02/23 09:39	1
Chloroethane	2.0	U	10	2.0	ug/L			10/02/23 09:39	1
Chloroform	0.46	U	1.0	0.46	ug/L			10/02/23 09:39	1
Chloromethane	2.0	U	10	2.0	ug/L			10/02/23 09:39	1
cis-1,2-Dichloroethene	0.46	U	1.0	0.46	ug/L			10/02/23 09:39	1
cis-1,3-Dichloropropene	1.1	U	5.0	1.1	ug/L			10/02/23 09:39	1
Cyclohexane	1.3	U	5.0	1.3	ug/L			10/02/23 09:39	1
Dibromochloromethane	0.55	U	5.0	0.55	ug/L			10/02/23 09:39	1
Dichlorodifluoromethane	0.79	U	1.0	0.79	ug/L			10/02/23 09:39	1
Ethylbenzene	0.39	U	1.0	0.39	ug/L			10/02/23 09:39	1
Isopropylbenzene	0.59	U	1.0	0.59	ug/L			10/02/23 09:39	1
m,p-Xylenes	1.2	U	10	1.2	ug/L			10/02/23 09:39	1
Methyl acetate	4.0	U	20	4.0	ug/L			10/02/23 09:39	1
Methyl tert-butyl ether	1.4	U	5.0	1.4	ug/L			10/02/23 09:39	1
Methylene Chloride	1.7	U	5.0	1.7	ug/L			10/02/23 09:39	1
o-Xylene	0.50	U	1.0	0.50	ug/L			10/02/23 09:39	1
Styrene	0.62	U	1.0	0.62	ug/L			10/02/23 09:39	1
Tetrachloroethene	0.66	U	1.0	0.66	ug/L			10/02/23 09:39	1
Toluene	0.48	U	1.0	0.48	ug/L			10/02/23 09:39	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			10/02/23 09:39	1
trans-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			10/02/23 09:39	1
Trichloroethene	0.79	U	5.0	0.79	ug/L			10/02/23 09:39	1
Trichlorofluoromethane	0.56	U	1.0	0.56	ug/L			10/02/23 09:39	1
Vinyl chloride	0.43	U	2.0	0.43	ug/L			10/02/23 09:39	1
Xylenes, Total	1.2	U	10	1.2	ug/L			10/02/23 09:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*63 - 144*		*10/02/23 09:39*	*1*
4-Bromofluorobenzene (Surr)	*96*		*74 - 124*		*10/02/23 09:39*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 131*		*10/02/23 09:39*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*10/02/23 09:39*	*1*

Lab Sample ID: LCS 860-124268/3
Matrix: Water
Analysis Batch: 124268

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	52.1		ug/L		104	70 - 130
1,1,2,2-Tetrachloroethane	50.0	44.2		ug/L		88	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	48.4		ug/L		97	60 - 140
1,1,2-Trichloroethane	50.0	48.1		ug/L		96	70 - 130
1,1-Dichloroethane	50.0	53.2		ug/L		106	70 - 130
1,1-Dichloroethene	50.0	50.8		ug/L		102	50 - 150
1,2,4-Trichlorobenzene	50.0	39.8		ug/L		80	75 - 135
1,2-Dibromo-3-Chloropropane	50.0	42.5		ug/L		85	59 - 125

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-124268/3
Matrix: Water
Analysis Batch: 124268

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	50.0	50.1		ug/L		100	73 - 125
1,2-Dichlorobenzene	50.0	44.0		ug/L		88	75 - 125
1,2-Dichloroethane	50.0	51.9		ug/L		104	72 - 130
1,2-Dichloropropane	50.0	52.5		ug/L		105	74 - 125
1,3-Dichlorobenzene	50.0	44.3		ug/L		89	75 - 125
1,4-Dichlorobenzene	50.0	43.9		ug/L		88	75 - 125
2-Butanone (MEK)	250	271		ug/L		108	60 - 140
2-Hexanone	250	238		ug/L		95	60 - 140
4-Methyl-2-pentanone	250	259		ug/L		104	60 - 140
Acetone	250	253		ug/L		101	60 - 140
Benzene	50.0	51.1		ug/L		102	75 - 125
Bromodichloromethane	50.0	54.5		ug/L		109	75 - 125
Bromoform	50.0	48.5		ug/L		97	70 - 130
Bromomethane	50.0	58.3		ug/L		117	60 - 140
Carbon disulfide	50.0	52.4		ug/L		105	60 - 140
Carbon tetrachloride	50.0	53.6		ug/L		107	70 - 130
Chlorobenzene	50.0	47.6		ug/L		95	65 - 135
Chloroethane	50.0	54.8		ug/L		110	60 - 140
Chloroform	50.0	54.5		ug/L		109	70 - 121
Chloromethane	50.0	52.9		ug/L		106	60 - 140
cis-1,2-Dichloroethene	50.0	52.1		ug/L		104	75 - 125
cis-1,3-Dichloropropene	50.0	55.2		ug/L		110	74 - 125
Cyclohexane	50.0	47.6		ug/L		95	70 - 130
Dibromochloromethane	50.0	52.7		ug/L		105	73 - 125
Dichlorodifluoromethane	50.0	59.0		ug/L		118	50 - 150
Ethylbenzene	50.0	48.1		ug/L		96	75 - 125
Isopropylbenzene	50.0	49.4		ug/L		99	75 - 125
m,p-Xylenes	50.0	48.4		ug/L		97	75 - 125
Methyl acetate	100	101		ug/L		101	60 - 140
Methyl tert-butyl ether	50.0	53.0		ug/L		106	65 - 135
Methylene Chloride	50.0	50.3		ug/L		101	71 - 125
o-Xylene	50.0	48.8		ug/L		98	75 - 125
Styrene	50.0	49.4		ug/L		99	75 - 125
Tetrachloroethene	50.0	47.4		ug/L		95	71 - 125
Toluene	50.0	47.2		ug/L		94	70 - 130
trans-1,2-Dichloroethene	50.0	53.4		ug/L		107	75 - 125
trans-1,3-Dichloropropene	50.0	52.0		ug/L		104	66 - 125
Trichloroethene	50.0	51.4		ug/L		103	75 - 135
Trichlorofluoromethane	50.0	60.4		ug/L		121	60 - 140
Vinyl chloride	50.0	54.5		ug/L		109	60 - 140
Xylenes, Total	100	97.2		ug/L		97	75 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*63 - 144*
4-Bromofluorobenzene (Surr)	*97*		*74 - 124*
Dibromofluoromethane (Surr)	*103*		*75 - 131*
Toluene-d8 (Surr)	*96*		*80 - 120*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-124268/4
Matrix: Water
Analysis Batch: 124268

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane			50.0	52.3		ug/L		105	70 - 130	0	25
1,1,2,2-Tetrachloroethane			50.0	44.0		ug/L		88	74 - 125	0	25
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	49.1		ug/L		98	60 - 140	1	25
1,1,2-Trichloroethane			50.0	46.9		ug/L		94	70 - 130	2	25
1,1-Dichloroethane			50.0	52.0		ug/L		104	70 - 130	2	25
1,1-Dichloroethene			50.0	51.4		ug/L		103	50 - 150	1	25
1,2,4-Trichlorobenzene			50.0	40.7		ug/L		81	75 - 135	2	25
1,2-Dibromo-3-Chloropropane			50.0	43.0		ug/L		86	59 - 125	1	25
1,2-Dibromoethane (EDB)			50.0	48.9		ug/L		98	73 - 125	3	25
1,2-Dichlorobenzene			50.0	43.2		ug/L		86	75 - 125	2	25
1,2-Dichloroethane			50.0	51.0		ug/L		102	72 - 130	2	25
1,2-Dichloropropane			50.0	50.4		ug/L		101	74 - 125	4	25
1,3-Dichlorobenzene			50.0	43.6		ug/L		87	75 - 125	2	25
1,4-Dichlorobenzene			50.0	43.1		ug/L		86	75 - 125	2	25
2-Butanone (MEK)			250	272		ug/L		109	60 - 140	1	25
2-Hexanone			250	236		ug/L		94	60 - 140	1	25
4-Methyl-2-pentanone			250	253		ug/L		101	60 - 140	2	25
Acetone			250	251		ug/L		101	60 - 140	1	25
Benzene			50.0	49.0		ug/L		98	75 - 125	4	25
Bromodichloromethane			50.0	53.0		ug/L		106	75 - 125	3	25
Bromoform			50.0	48.0		ug/L		96	70 - 130	1	25
Bromomethane			50.0	51.7		ug/L		103	60 - 140	12	25
Carbon disulfide			50.0	51.4		ug/L		103	60 - 140	2	25
Carbon tetrachloride			50.0	54.1		ug/L		108	70 - 130	1	25
Chlorobenzene			50.0	45.6		ug/L		91	65 - 135	4	25
Chloroethane			50.0	48.9		ug/L		98	60 - 140	11	25
Chloroform			50.0	52.9		ug/L		106	70 - 121	3	25
Chloromethane			50.0	48.8		ug/L		98	60 - 140	8	25
cis-1,2-Dichloroethene			50.0	51.0		ug/L		102	75 - 125	2	25
cis-1,3-Dichloropropene			50.0	53.5		ug/L		107	74 - 125	3	25
Cyclohexane			50.0	49.3		ug/L		99	70 - 130	3	25
Dibromochloromethane			50.0	51.1		ug/L		102	73 - 125	3	25
Dichlorodifluoromethane			50.0	57.1		ug/L		114	50 - 150	3	25
Ethylbenzene			50.0	47.0		ug/L		94	75 - 125	2	25
Isopropylbenzene			50.0	48.7		ug/L		97	75 - 125	1	25
m,p-Xylenes			50.0	47.5		ug/L		95	75 - 125	2	25
Methyl acetate			100	102		ug/L		102	60 - 140	0	25
Methyl tert-butyl ether			50.0	52.3		ug/L		105	65 - 135	1	25
Methylene Chloride			50.0	49.4		ug/L		99	71 - 125	2	25
o-Xylene			50.0	47.1		ug/L		94	75 - 125	4	25
Styrene			50.0	47.9		ug/L		96	75 - 125	3	25
Tetrachloroethene			50.0	47.7		ug/L		95	71 - 125	1	25
Toluene			50.0	45.9		ug/L		92	70 - 130	3	25
trans-1,2-Dichloroethene			50.0	53.1		ug/L		106	75 - 125	1	25
trans-1,3-Dichloropropene			50.0	50.8		ug/L		102	66 - 125	2	25
Trichloroethene			50.0	50.6		ug/L		101	75 - 135	2	25
Trichlorofluoromethane			50.0	54.8		ug/L		110	60 - 140	10	25
Vinyl chloride			50.0	49.1		ug/L		98	60 - 140	10	25

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-124268/4
Matrix: Water
Analysis Batch: 124268

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Xylenes, Total			100	94.6		ug/L		95	75 - 125	3	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*63 - 144*
4-Bromofluorobenzene (Surr)	*96*		*74 - 124*
Dibromofluoromethane (Surr)	*105*		*75 - 131*
Toluene-d8 (Surr)	*95*		*80 - 120*

Lab Sample ID: 670-27487-6 MS
Matrix: Water
Analysis Batch: 124268

Client Sample ID: LC34-DPT0932-038.0-20230925
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.59	U	50.0	62.0		ug/L		124	75 - 125
1,1,1-Trichloroethane	0.59	U	50.0	62.0		ug/L		124	75 - 125
1,1,2,2-Tetrachloroethane	0.47	U	50.0	49.6		ug/L		99	74 - 125
1,1,2,2-Tetrachloroethane	0.47	U	50.0	49.6		ug/L		99	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	50.0	53.5		ug/L		107	60 - 140
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	50.0	53.5		ug/L		107	60 - 140
1,1,2-Trichloroethane	0.41	U	50.0	52.5		ug/L		105	75 - 127
1,1,2-Trichloroethane	0.41	U	50.0	52.5		ug/L		105	75 - 127
1,1-Dichloroethane	0.64	U	50.0	60.5		ug/L		121	72 - 125
1,1-Dichloroethane	0.64	U	50.0	60.5		ug/L		121	72 - 125
1,1-Dichloroethene	0.74	U	50.0	56.7		ug/L		113	59 - 172
1,1-Dichloroethene	0.74	U	50.0	56.7		ug/L		113	59 - 172
1,2,4-Trichlorobenzene	1.8	U	50.0	49.0		ug/L		98	75 - 135
1,2,4-Trichlorobenzene	1.8	U	50.0	49.0		ug/L		98	75 - 135
1,2-Dibromo-3-Chloropropane	0.67	U	50.0	46.8		ug/L		94	59 - 125
1,2-Dibromo-3-Chloropropane	0.67	U	50.0	46.8		ug/L		94	59 - 125
1,2-Dibromoethane (EDB)	1.0	U	50.0	54.1		ug/L		108	73 - 125
1,2-Dibromoethane (EDB)	1.0	U	50.0	54.1		ug/L		108	73 - 125
1,2-Dichlorobenzene	0.43	U	50.0	52.2		ug/L		104	75 - 125
1,2-Dichlorobenzene	0.43	U	50.0	52.2		ug/L		104	75 - 125
1,2-Dichloroethane	0.37	U	50.0	55.8		ug/L		112	68 - 127
1,2-Dichloroethane	0.37	U	50.0	55.8		ug/L		112	68 - 127
1,2-Dichloropropane	0.56	U	50.0	57.6		ug/L		115	74 - 125
1,2-Dichloropropane	0.56	U	50.0	57.6		ug/L		115	74 - 125
1,3-Dichlorobenzene	0.41	U	50.0	53.7		ug/L		107	75 - 125
1,3-Dichlorobenzene	0.41	U	50.0	53.7		ug/L		107	75 - 125
1,4-Dichlorobenzene	0.45	U	50.0	52.8		ug/L		106	75 - 125
1,4-Dichlorobenzene	0.45	U	50.0	52.8		ug/L		106	75 - 125
2-Butanone (MEK)	8.3	U	250	269		ug/L		108	60 - 140
2-Butanone (MEK)	8.3	U	250	269		ug/L		108	60 - 140
2-Hexanone	7.4	U	250	242		ug/L		97	60 - 140
2-Hexanone	7.4	U	250	242		ug/L		97	60 - 140
4-Methyl-2-pentanone	7.5	U	250	257		ug/L		103	60 - 140
4-Methyl-2-pentanone	7.5	U	250	257		ug/L		103	60 - 140

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 670-27487-6 MS
Matrix: Water
Analysis Batch: 124268

Client Sample ID: LC34-DPT0932-038.0-20230925
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	3.1	U	250	245		ug/L		98	60 - 140
Acetone	3.1	U	250	245		ug/L		98	60 - 140
Benzene	0.46	U	50.0	56.6		ug/L		113	66 - 142
Benzene	0.46	U	50.0	56.6		ug/L		113	66 - 142
Bromodichloromethane	0.55	U	50.0	60.3		ug/L		121	75 - 125
Bromodichloromethane	0.55	U	50.0	60.3		ug/L		121	75 - 125
Bromoform	0.63	U	50.0	52.0		ug/L		104	75 - 125
Bromoform	0.63	U	50.0	52.0		ug/L		104	75 - 125
Bromomethane	1.4	U	50.0	51.5		ug/L		103	60 - 140
Bromomethane	1.4	U	50.0	51.5		ug/L		103	60 - 140
Carbon disulfide	0.78	U	50.0	56.4		ug/L		113	60 - 140
Carbon disulfide	0.78	U	50.0	56.4		ug/L		113	60 - 140
Carbon tetrachloride	0.90	U J3	50.0	62.9	J3	ug/L		126	62 - 125
Carbon tetrachloride	0.90	U J3	50.0	62.9	J3	ug/L		126	62 - 125
Chlorobenzene	0.46	U	50.0	54.9		ug/L		110	60 - 133
Chlorobenzene	0.46	U	50.0	54.9		ug/L		110	60 - 133
Chloroethane	2.0	U	50.0	52.2		ug/L		104	60 - 140
Chloroethane	2.0	U	50.0	52.2		ug/L		104	60 - 140
Chloroform	0.46	U	50.0	61.6		ug/L		123	70 - 130
Chloroform	0.46	U	50.0	61.6		ug/L		123	70 - 130
Chloromethane	2.0	U	50.0	45.5		ug/L		91	60 - 140
Chloromethane	2.0	U	50.0	45.5		ug/L		91	60 - 140
cis-1,2-Dichloroethene	0.46	U	50.0	59.2		ug/L		118	75 - 125
cis-1,2-Dichloroethene	0.46	U	50.0	59.2		ug/L		118	75 - 125
cis-1,3-Dichloropropene	1.1	U	50.0	60.0		ug/L		120	74 - 125
cis-1,3-Dichloropropene	1.1	U	50.0	60.0		ug/L		120	74 - 125
Cyclohexane	1.3	U	50.0	55.7		ug/L		111	70 - 130
Cyclohexane	1.3	U	50.0	55.7		ug/L		111	70 - 130
Dibromochloromethane	0.55	U	50.0	57.7		ug/L		115	73 - 125
Dibromochloromethane	0.55	U	50.0	57.7		ug/L		115	73 - 125
Dichlorodifluoromethane	0.79	U	50.0	41.7		ug/L		83	70 - 130
Dichlorodifluoromethane	0.79	U	50.0	41.7		ug/L		83	70 - 130
Ethylbenzene	0.39	U	50.0	56.6		ug/L		113	75 - 125
Ethylbenzene	0.39	U	50.0	56.6		ug/L		113	75 - 125
Isopropylbenzene	0.59	U	50.0	59.0		ug/L		118	75 - 125
Isopropylbenzene	0.59	U	50.0	59.0		ug/L		118	75 - 125
m,p-Xylenes	1.2	U	50.0	56.9		ug/L		114	75 - 125
m,p-Xylenes	1.2	U	50.0	56.9		ug/L		114	75 - 125
Methyl acetate	4.0	U	100	104		ug/L		104	60 - 140
Methyl acetate	4.0	U	100	104		ug/L		104	60 - 140
Methyl tert-butyl ether	1.4	U	50.0	54.5		ug/L		109	65 - 135
Methyl tert-butyl ether	1.4	U	50.0	54.5		ug/L		109	65 - 135
Methylene Chloride	1.7	U	50.0	54.4		ug/L		109	75 - 125
Methylene Chloride	1.7	U	50.0	54.4		ug/L		109	75 - 125
o-Xylene	0.50	U	50.0	56.5		ug/L		113	75 - 125
o-Xylene	0.50	U	50.0	56.5		ug/L		113	75 - 125
Styrene	0.62	U	50.0	56.6		ug/L		113	75 - 125
Styrene	0.62	U	50.0	56.6		ug/L		113	75 - 125
Tetrachloroethene	0.66	U	50.0	57.7		ug/L		115	71 - 125

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 670-27487-6 MS
Matrix: Water
Analysis Batch: 124268

Client Sample ID: LC34-DPT0932-038.0-20230925
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Tetrachloroethene	0.66	U	50.0	57.7		ug/L		115	71 - 125
Toluene	0.48	U	50.0	55.1		ug/L		110	59 - 139
Toluene	0.48	U	50.0	55.1		ug/L		110	59 - 139
trans-1,2-Dichloroethene	0.37	U	50.0	59.0		ug/L		118	75 - 125
trans-1,2-Dichloroethene	0.37	U	50.0	59.0		ug/L		118	75 - 125
trans-1,3-Dichloropropene	1.3	U	50.0	57.9		ug/L		116	66 - 125
trans-1,3-Dichloropropene	1.3	U	50.0	57.9		ug/L		116	66 - 125
Trichloroethene	0.79	U	50.0	58.9		ug/L		118	62 - 137
Trichloroethene	0.79	U	50.0	58.9		ug/L		118	62 - 137
Trichlorofluoromethane	0.56	U	50.0	67.2		ug/L		134	60 - 140
Trichlorofluoromethane	0.56	U	50.0	67.2		ug/L		134	60 - 140
Vinyl chloride	0.43	U	50.0	51.8		ug/L		104	60 - 140
Vinyl chloride	0.43	U	50.0	51.8		ug/L		104	60 - 140
Xylenes, Total	1.2	U	100	113		ug/L		113	75 - 125
Xylenes, Total	1.2	U	100	113		ug/L		113	75 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*63 - 144*
1,2-Dichloroethane-d4 (Surr)	*98*		*63 - 144*
4-Bromofluorobenzene (Surr)	*98*		*74 - 124*
4-Bromofluorobenzene (Surr)	*98*		*74 - 124*
Dibromofluoromethane (Surr)	*105*		*75 - 131*
Dibromofluoromethane (Surr)	*105*		*75 - 131*
Toluene-d8 (Surr)	*96*		*80 - 120*
Toluene-d8 (Surr)	*96*		*80 - 120*

Lab Sample ID: MB 860-124308/10
Matrix: Water
Analysis Batch: 124308

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.59	U	5.0	0.59	ug/L			10/02/23 12:36	1
1,1,2,2-Tetrachloroethane	0.47	U	1.0	0.47	ug/L			10/02/23 12:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	10	1.1	ug/L			10/02/23 12:36	1
1,1,2-Trichloroethane	0.41	U	1.0	0.41	ug/L			10/02/23 12:36	1
1,1-Dichloroethane	0.64	U	1.0	0.64	ug/L			10/02/23 12:36	1
1,1-Dichloroethene	0.74	U	1.0	0.74	ug/L			10/02/23 12:36	1
1,2,4-Trichlorobenzene	1.8	U	5.0	1.8	ug/L			10/02/23 12:36	1
1,2-Dibromo-3-Chloropropane	0.67	U	5.0	0.67	ug/L			10/02/23 12:36	1
1,2-Dibromoethane (EDB)	1.0	U	5.0	1.0	ug/L			10/02/23 12:36	1
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			10/02/23 12:36	1
1,2-Dichloroethane	0.37	U	1.0	0.37	ug/L			10/02/23 12:36	1
1,2-Dichloropropane	0.56	U	5.0	0.56	ug/L			10/02/23 12:36	1
1,3-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			10/02/23 12:36	1
1,4-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			10/02/23 12:36	1
2-Butanone (MEK)	8.3	U	50	8.3	ug/L			10/02/23 12:36	1
2-Hexanone	7.4	U	50	7.4	ug/L			10/02/23 12:36	1
4-Methyl-2-pentanone	7.5	U	50	7.5	ug/L			10/02/23 12:36	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 860-124308/10
Matrix: Water
Analysis Batch: 124308

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	3.1	U	100	3.1	ug/L			10/02/23 12:36	1
Benzene	0.46	U	1.0	0.46	ug/L			10/02/23 12:36	1
Bromodichloromethane	0.55	U	1.0	0.55	ug/L			10/02/23 12:36	1
Bromoform	0.63	U	5.0	0.63	ug/L			10/02/23 12:36	1
Bromomethane	1.4	U	5.0	1.4	ug/L			10/02/23 12:36	1
Carbon disulfide	0.78	U	5.0	0.78	ug/L			10/02/23 12:36	1
Carbon tetrachloride	0.90	U	5.0	0.90	ug/L			10/02/23 12:36	1
Chlorobenzene	0.46	U	1.0	0.46	ug/L			10/02/23 12:36	1
Chloroethane	2.0	U	10	2.0	ug/L			10/02/23 12:36	1
Chloroform	0.46	U	1.0	0.46	ug/L			10/02/23 12:36	1
Chloromethane	2.0	U	10	2.0	ug/L			10/02/23 12:36	1
cis-1,2-Dichloroethene	0.46	U	1.0	0.46	ug/L			10/02/23 12:36	1
cis-1,3-Dichloropropene	1.1	U	5.0	1.1	ug/L			10/02/23 12:36	1
Cyclohexane	1.3	U	5.0	1.3	ug/L			10/02/23 12:36	1
Dibromochloromethane	0.55	U	5.0	0.55	ug/L			10/02/23 12:36	1
Dichlorodifluoromethane	0.79	U	1.0	0.79	ug/L			10/02/23 12:36	1
Ethylbenzene	0.39	U	1.0	0.39	ug/L			10/02/23 12:36	1
Isopropylbenzene	0.59	U	1.0	0.59	ug/L			10/02/23 12:36	1
m,p-Xylenes	1.2	U	10	1.2	ug/L			10/02/23 12:36	1
Methyl acetate	4.0	U	20	4.0	ug/L			10/02/23 12:36	1
Methyl tert-butyl ether	1.4	U	5.0	1.4	ug/L			10/02/23 12:36	1
Methylene Chloride	1.7	U	5.0	1.7	ug/L			10/02/23 12:36	1
o-Xylene	0.50	U	1.0	0.50	ug/L			10/02/23 12:36	1
Styrene	0.62	U	1.0	0.62	ug/L			10/02/23 12:36	1
Tetrachloroethene	0.66	U	1.0	0.66	ug/L			10/02/23 12:36	1
Toluene	0.48	U	1.0	0.48	ug/L			10/02/23 12:36	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			10/02/23 12:36	1
trans-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			10/02/23 12:36	1
Trichloroethene	0.79	U	5.0	0.79	ug/L			10/02/23 12:36	1
Trichlorofluoromethane	0.56	U	1.0	0.56	ug/L			10/02/23 12:36	1
Vinyl chloride	0.43	U	2.0	0.43	ug/L			10/02/23 12:36	1
Xylenes, Total	1.2	U	10	1.2	ug/L			10/02/23 12:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*63 - 144*		*10/02/23 12:36*	*1*
4-Bromofluorobenzene (Surr)	*108*		*74 - 124*		*10/02/23 12:36*	*1*
Dibromofluoromethane (Surr)	*109*		*75 - 131*		*10/02/23 12:36*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*10/02/23 12:36*	*1*

Lab Sample ID: LCS 860-124308/3
Matrix: Water
Analysis Batch: 124308

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	49.4		ug/L		99	70 - 130
1,1,2,2-Tetrachloroethane	50.0	43.3		ug/L		87	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	45.5		ug/L		91	60 - 140
1,1,2-Trichloroethane	50.0	45.9		ug/L		92	70 - 130

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-124308/3
Matrix: Water
Analysis Batch: 124308

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethane	50.0	45.5		ug/L		91	70 - 130
1,1-Dichloroethene	50.0	47.8		ug/L		96	50 - 150
1,2,4-Trichlorobenzene	50.0	54.1		ug/L		108	75 - 135
1,2-Dibromo-3-Chloropropane	50.0	49.9		ug/L		100	59 - 125
1,2-Dibromoethane (EDB)	50.0	47.8		ug/L		96	73 - 125
1,2-Dichlorobenzene	50.0	47.3		ug/L		95	75 - 125
1,2-Dichloroethane	50.0	49.4		ug/L		99	72 - 130
1,2-Dichloropropane	50.0	48.1		ug/L		96	74 - 125
1,3-Dichlorobenzene	50.0	47.4		ug/L		95	75 - 125
1,4-Dichlorobenzene	50.0	46.8		ug/L		94	75 - 125
2-Butanone (MEK)	250	240		ug/L		96	60 - 140
2-Hexanone	250	255		ug/L		102	60 - 140
4-Methyl-2-pentanone	250	250		ug/L		100	60 - 140
Acetone	250	251		ug/L		100	60 - 140
Benzene	50.0	48.6		ug/L		97	75 - 125
Bromodichloromethane	50.0	47.5		ug/L		95	75 - 125
Bromoform	50.0	46.6		ug/L		93	70 - 130
Bromomethane	50.0	45.0		ug/L		90	60 - 140
Carbon disulfide	50.0	48.2		ug/L		96	60 - 140
Carbon tetrachloride	50.0	41.8		ug/L		84	70 - 130
Chlorobenzene	50.0	47.0		ug/L		94	65 - 135
Chloroethane	50.0	36.2		ug/L		72	60 - 140
Chloroform	50.0	46.6		ug/L		93	70 - 121
Chloromethane	50.0	34.1		ug/L		68	60 - 140
cis-1,2-Dichloroethene	50.0	47.2		ug/L		94	75 - 125
cis-1,3-Dichloropropene	50.0	50.6		ug/L		101	74 - 125
Cyclohexane	50.0	50.5		ug/L		101	70 - 130
Dibromochloromethane	50.0	47.8		ug/L		96	73 - 125
Dichlorodifluoromethane	50.0	53.5		ug/L		107	50 - 150
Ethylbenzene	50.0	50.4		ug/L		101	75 - 125
Isopropylbenzene	50.0	53.1		ug/L		106	75 - 125
m,p-Xylenes	50.0	51.2		ug/L		102	75 - 125
Methyl acetate	100	96.9		ug/L		97	60 - 140
Methyl tert-butyl ether	50.0	52.6		ug/L		105	65 - 135
Methylene Chloride	50.0	43.2		ug/L		86	71 - 125
o-Xylene	50.0	52.6		ug/L		105	75 - 125
Styrene	50.0	51.6		ug/L		103	75 - 125
Tetrachloroethene	50.0	49.7		ug/L		99	71 - 125
Toluene	50.0	47.7		ug/L		95	70 - 130
trans-1,2-Dichloroethene	50.0	48.7		ug/L		97	75 - 125
trans-1,3-Dichloropropene	50.0	51.3		ug/L		103	66 - 125
Trichloroethene	50.0	50.0		ug/L		100	75 - 135
Trichlorofluoromethane	50.0	56.9		ug/L		114	60 - 140
Vinyl chloride	50.0	46.1		ug/L		92	60 - 140
Xylenes, Total	100	104		ug/L		104	75 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*63 - 144*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-124308/3
Matrix: Water
Analysis Batch: 124308

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	*99*		*74 - 124*
Dibromofluoromethane (Surr)	*96*		*75 - 131*
Toluene-d8 (Surr)	*99*		*80 - 120*

Lab Sample ID: LCSD 860-124308/4
Matrix: Water
Analysis Batch: 124308

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane			50.0	53.8		ug/L		108	70 - 130	9	25
1,1,2,2-Tetrachloroethane			50.0	43.1		ug/L		86	74 - 125	1	25
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	52.8		ug/L		106	60 - 140	15	25
1,1,2-Trichloroethane			50.0	49.0		ug/L		98	70 - 130	7	25
1,1-Dichloroethane			50.0	50.5		ug/L		101	70 - 130	11	25
1,1-Dichloroethene			50.0	52.6		ug/L		105	50 - 150	10	25
1,2,4-Trichlorobenzene			50.0	58.1		ug/L		116	75 - 135	7	25
1,2-Dibromo-3-Chloropropane			50.0	49.9		ug/L		100	59 - 125	0	25
1,2-Dibromoethane (EDB)			50.0	50.2		ug/L		100	73 - 125	5	25
1,2-Dichlorobenzene			50.0	50.4		ug/L		101	75 - 125	6	25
1,2-Dichloroethane			50.0	51.6		ug/L		103	72 - 130	4	25
1,2-Dichloropropane			50.0	51.6		ug/L		103	74 - 125	7	25
1,3-Dichlorobenzene			50.0	51.1		ug/L		102	75 - 125	7	25
1,4-Dichlorobenzene			50.0	49.4		ug/L		99	75 - 125	5	25
2-Butanone (MEK)			250	232		ug/L		93	60 - 140	4	25
2-Hexanone			250	246		ug/L		98	60 - 140	4	25
4-Methyl-2-pentanone			250	242		ug/L		97	60 - 140	3	25
Acetone			250	233		ug/L		93	60 - 140	7	25
Benzene			50.0	51.8		ug/L		104	75 - 125	6	25
Bromodichloromethane			50.0	52.2		ug/L		104	75 - 125	10	25
Bromoform			50.0	49.5		ug/L		99	70 - 130	6	25
Bromomethane			50.0	46.8		ug/L		94	60 - 140	4	25
Carbon disulfide			50.0	51.9		ug/L		104	60 - 140	7	25
Carbon tetrachloride			50.0	46.6		ug/L		93	70 - 130	11	25
Chlorobenzene			50.0	50.5		ug/L		101	65 - 135	7	25
Chloroethane			50.0	44.3		ug/L		89	60 - 140	20	25
Chloroform			50.0	48.9		ug/L		98	70 - 121	5	25
Chloromethane			50.0	35.1		ug/L		70	60 - 140	3	25
cis-1,2-Dichloroethene			50.0	51.3		ug/L		103	75 - 125	8	25
cis-1,3-Dichloropropene			50.0	55.0		ug/L		110	74 - 125	8	25
Cyclohexane			50.0	57.6		ug/L		115	70 - 130	13	25
Dibromochloromethane			50.0	50.8		ug/L		102	73 - 125	6	25
Dichlorodifluoromethane			50.0	58.6		ug/L		117	50 - 150	9	25
Ethylbenzene			50.0	53.9		ug/L		108	75 - 125	7	25
Isopropylbenzene			50.0	57.5		ug/L		115	75 - 125	8	25
m,p-Xylenes			50.0	55.6		ug/L		111	75 - 125	8	25
Methyl acetate			100	96.9		ug/L		97	60 - 140	0	25
Methyl tert-butyl ether			50.0	57.8		ug/L		116	65 - 135	9	25
Methylene Chloride			50.0	48.3		ug/L		97	71 - 125	11	25

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-124308/4
Matrix: Water
Analysis Batch: 124308

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
o-Xylene			50.0	57.1		ug/L		114	75 - 125	8	25
Styrene			50.0	55.7		ug/L		111	75 - 125	8	25
Tetrachloroethene			50.0	53.6		ug/L		107	71 - 125	8	25
Toluene			50.0	51.8		ug/L		104	70 - 130	8	25
trans-1,2-Dichloroethene			50.0	51.2		ug/L		102	75 - 125	5	25
trans-1,3-Dichloropropene			50.0	55.5		ug/L		111	66 - 125	8	25
Trichloroethene			50.0	54.5		ug/L		109	75 - 135	9	25
Trichlorofluoromethane			50.0	61.3		ug/L		123	60 - 140	7	25
Vinyl chloride			50.0	46.9		ug/L		94	60 - 140	2	25
Xylenes, Total			100	113		ug/L		113	75 - 125	8	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*63 - 144*
4-Bromofluorobenzene (Surr)	*96*		*74 - 124*
Dibromofluoromethane (Surr)	*94*		*75 - 131*
Toluene-d8 (Surr)	*98*		*80 - 120*

Lab Sample ID: 860-58200-B-19 MS
Matrix: Water
Analysis Batch: 124308

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.59	U	50.0	40.2		ug/L		80	75 - 125
1,1,2,2-Tetrachloroethane	0.47	U J3	50.0	34.6	J3	ug/L		69	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	50.0	37.9		ug/L		76	60 - 140
1,1,2-Trichloroethane	0.41	U J3	50.0	35.2	J3	ug/L		70	75 - 127
1,1-Dichloroethane	0.64	U	50.0	36.2		ug/L		72	72 - 125
1,1-Dichloroethene	0.74	U	50.0	36.5		ug/L		73	59 - 172
1,2,4-Trichlorobenzene	1.8	U	50.0	45.0		ug/L		90	75 - 135
1,2-Dibromo-3-Chloropropane	0.67	U	50.0	41.8		ug/L		84	59 - 125
1,2-Dibromoethane (EDB)	1.0	U	50.0	36.9		ug/L		74	73 - 125
1,2-Dichlorobenzene	0.43	U	50.0	38.9		ug/L		78	75 - 125
1,2-Dichloroethane	0.37	U	50.0	38.0		ug/L		76	68 - 127
1,2-Dichloropropane	0.56	U J3	50.0	36.4	J3	ug/L		73	74 - 125
1,3-Dichlorobenzene	0.41	U	50.0	39.2		ug/L		78	75 - 125
1,4-Dichlorobenzene	0.45	U	50.0	38.2		ug/L		76	75 - 125
2-Butanone (MEK)	8.3	U	250	185		ug/L		74	60 - 140
2-Hexanone	7.4	U	250	197		ug/L		79	60 - 140
4-Methyl-2-pentanone	7.5	U	250	189		ug/L		76	60 - 140
Acetone	3.1	U	250	194		ug/L		78	60 - 140
Benzene	0.56	I	50.0	37.4		ug/L		74	66 - 142
Bromodichloromethane	0.55	U J3	50.0	36.6	J3	ug/L		73	75 - 125
Bromoform	0.63	U J3	50.0	36.5	J3	ug/L		73	75 - 125
Bromomethane	1.4	U J3	50.0	23.8	J3	ug/L		48	60 - 140
Carbon disulfide	1.1	I	50.0	41.5		ug/L		81	60 - 140
Carbon tetrachloride	0.90	U	50.0	34.1		ug/L		68	62 - 125
Chlorobenzene	0.46	U	50.0	37.0		ug/L		74	60 - 133
Chloroethane	2.0	U	50.0	43.2		ug/L		86	60 - 140

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 860-58200-B-19 MS
Matrix: Water
Analysis Batch: 124308

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloroform	0.46	U	50.0	36.3		ug/L		73	70 - 130
Chloromethane	2.0	U J3	50.0	25.4	J3	ug/L		51	60 - 140
cis-1,2-Dichloroethene	2.0		50.0	39.4		ug/L		75	75 - 125
cis-1,3-Dichloropropene	1.1	U	50.0	38.7		ug/L		77	74 - 125
Cyclohexane	1.3	U	50.0	40.2		ug/L		80	70 - 130
Dibromochloromethane	0.55	U	50.0	37.2		ug/L		74	73 - 125
Dichlorodifluoromethane	0.79	U J3	50.0	32.1	J3	ug/L		64	70 - 130
Ethylbenzene	0.39	U	50.0	39.8		ug/L		80	75 - 125
Isopropylbenzene	0.59	U	50.0	42.3		ug/L		85	75 - 125
m,p-Xylenes	1.2	U	50.0	40.8		ug/L		82	75 - 125
Methyl acetate	4.0	U	100	71.7		ug/L		72	60 - 140
Methyl tert-butyl ether	1.4	U	50.0	42.4		ug/L		85	65 - 135
Methylene Chloride	1.7	U J3	50.0	33.5	J3	ug/L		67	75 - 125
o-Xylene	0.50	U	50.0	41.6		ug/L		83	75 - 125
Styrene	0.62	U	50.0	38.8		ug/L		78	75 - 125
Tetrachloroethene	0.66	U	50.0	40.7		ug/L		81	71 - 125
Toluene	0.48	U	50.0	37.5		ug/L		75	59 - 139
trans-1,2-Dichloroethene	0.96	I	50.0	39.8		ug/L		78	75 - 125
trans-1,3-Dichloropropene	1.3	U	50.0	40.3		ug/L		81	66 - 125
Trichloroethene	2.0	I	50.0	40.8		ug/L		77	62 - 137
Trichlorofluoromethane	0.56	U	50.0	37.9		ug/L		76	60 - 140
Vinyl chloride	0.43	U	50.0	31.4		ug/L		63	60 - 140
Xylenes, Total	1.2	U	100	82.4		ug/L		82	75 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*63 - 144*
4-Bromofluorobenzene (Surr)	*100*		*74 - 124*
Dibromofluoromethane (Surr)	*96*		*75 - 131*
Toluene-d8 (Surr)	*98*		*80 - 120*

Lab Sample ID: 860-58200-B-19 MSD
Matrix: Water
Analysis Batch: 124308

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	0.59	U	50.0	43.0		ug/L		86	75 - 125	7	25
1,1,2,2-Tetrachloroethane	0.47	U J3	50.0	37.7		ug/L		75	74 - 125	9	25
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	50.0	40.2		ug/L		80	60 - 140	6	25
1,1,2-Trichloroethane	0.41	U J3	50.0	38.4		ug/L		77	75 - 127	9	25
1,1-Dichloroethane	0.64	U	50.0	39.1		ug/L		78	72 - 125	8	25
1,1-Dichloroethene	0.74	U	50.0	39.9		ug/L		80	59 - 172	9	25
1,2,4-Trichlorobenzene	1.8	U	50.0	47.5		ug/L		95	75 - 135	6	25
1,2-Dibromo-3-Chloropropane	0.67	U	50.0	46.5		ug/L		93	59 - 125	11	25
1,2-Dibromoethane (EDB)	1.0	U	50.0	40.3		ug/L		81	73 - 125	9	25
1,2-Dichlorobenzene	0.43	U	50.0	40.8		ug/L		82	75 - 125	5	25
1,2-Dichloroethane	0.37	U	50.0	39.2		ug/L		78	68 - 127	3	25
1,2-Dichloropropane	0.56	U J3	50.0	38.3		ug/L		77	74 - 125	5	25
1,3-Dichlorobenzene	0.41	U	50.0	40.9		ug/L		82	75 - 125	4	25

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 860-58200-B-19 MSD
Matrix: Water
Analysis Batch: 124308

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dichlorobenzene	0.45	U	50.0	40.0		ug/L		80	75 - 125	5	25
2-Butanone (MEK)	8.3	U	250	202		ug/L		81	60 - 140	9	25
2-Hexanone	7.4	U	250	215		ug/L		86	60 - 140	9	25
4-Methyl-2-pentanone	7.5	U	250	204		ug/L		82	60 - 140	8	25
Acetone	3.1	U	250	205		ug/L		82	60 - 140	6	25
Benzene	0.56	I	50.0	39.3		ug/L		78	66 - 142	5	25
Bromodichloromethane	0.55	U J3	50.0	39.4		ug/L		79	75 - 125	7	25
Bromoform	0.63	U J3	50.0	39.1		ug/L		78	75 - 125	7	25
Bromomethane	1.4	U J3	50.0	20.6	J3	ug/L		41	60 - 140	14	25
Carbon disulfide	1.1	I	50.0	45.0		ug/L		88	60 - 140	8	25
Carbon tetrachloride	0.90	U	50.0	37.3		ug/L		75	62 - 125	9	25
Chlorobenzene	0.46	U	50.0	39.6		ug/L		79	60 - 133	7	25
Chloroethane	2.0	U	50.0	51.1		ug/L		102	60 - 140	17	25
Chloroform	0.46	U	50.0	38.4		ug/L		77	70 - 130	6	25
Chloromethane	2.0	U J3	50.0	26.2	J3	ug/L		52	60 - 140	3	25
cis-1,2-Dichloroethene	2.0		50.0	42.6		ug/L		81	75 - 125	8	25
cis-1,3-Dichloropropene	1.1	U	50.0	40.7		ug/L		81	74 - 125	5	25
Cyclohexane	1.3	U	50.0	43.1		ug/L		86	70 - 130	7	25
Dibromochloromethane	0.55	U	50.0	39.6		ug/L		79	73 - 125	6	25
Dichlorodifluoromethane	0.79	U J3	50.0	34.7	J3	ug/L		69	70 - 130	8	25
Ethylbenzene	0.39	U	50.0	42.2		ug/L		84	75 - 125	6	25
Isopropylbenzene	0.59	U	50.0	45.0		ug/L		90	75 - 125	6	25
m,p-Xylenes	1.2	U	50.0	43.2		ug/L		86	75 - 125	6	25
Methyl acetate	4.0	U	100	76.9		ug/L		77	60 - 140	7	25
Methyl tert-butyl ether	1.4	U	50.0	46.8		ug/L		94	65 - 135	10	25
Methylene Chloride	1.7	U J3	50.0	36.2	J3	ug/L		72	75 - 125	8	25
o-Xylene	0.50	U	50.0	44.6		ug/L		89	75 - 125	7	25
Styrene	0.62	U	50.0	41.2		ug/L		82	75 - 125	6	25
Tetrachloroethene	0.66	U	50.0	43.2		ug/L		86	71 - 125	6	25
Toluene	0.48	U	50.0	40.0		ug/L		80	59 - 139	7	25
trans-1,2-Dichloroethene	0.96	I	50.0	42.8		ug/L		84	75 - 125	7	25
trans-1,3-Dichloropropene	1.3	U	50.0	43.1		ug/L		86	66 - 125	7	25
Trichloroethene	2.0	I	50.0	44.4		ug/L		85	62 - 137	9	25
Trichlorofluoromethane	0.56	U	50.0	45.2		ug/L		90	60 - 140	18	25
Vinyl chloride	0.43	U	50.0	34.7		ug/L		69	60 - 140	10	25
Xylenes, Total	1.2	U	100	87.8		ug/L		88	75 - 125	6	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*63 - 144*
4-Bromofluorobenzene (Surr)	*100*		*74 - 124*
Dibromofluoromethane (Surr)	*97*		*75 - 131*
Toluene-d8 (Surr)	*98*		*80 - 120*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 860-124479/9
Matrix: Water
Analysis Batch: 124479

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.59	U	5.0	0.59	ug/L			10/03/23 09:59	1
1,1,2,2-Tetrachloroethane	0.47	U	1.0	0.47	ug/L			10/03/23 09:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	10	1.1	ug/L			10/03/23 09:59	1
1,1,2-Trichloroethane	0.41	U	1.0	0.41	ug/L			10/03/23 09:59	1
1,1-Dichloroethane	0.64	U	1.0	0.64	ug/L			10/03/23 09:59	1
1,1-Dichloroethene	0.74	U	1.0	0.74	ug/L			10/03/23 09:59	1
1,2,4-Trichlorobenzene	1.8	U	5.0	1.8	ug/L			10/03/23 09:59	1
1,2-Dibromo-3-Chloropropane	0.67	U	5.0	0.67	ug/L			10/03/23 09:59	1
1,2-Dibromoethane (EDB)	1.0	U	5.0	1.0	ug/L			10/03/23 09:59	1
1,2-Dichlorobenzene	0.43	U	1.0	0.43	ug/L			10/03/23 09:59	1
1,2-Dichloroethane	0.37	U	1.0	0.37	ug/L			10/03/23 09:59	1
1,2-Dichloropropane	0.56	U	5.0	0.56	ug/L			10/03/23 09:59	1
1,3-Dichlorobenzene	0.41	U	1.0	0.41	ug/L			10/03/23 09:59	1
1,4-Dichlorobenzene	0.45	U	1.0	0.45	ug/L			10/03/23 09:59	1
2-Butanone (MEK)	8.3	U	50	8.3	ug/L			10/03/23 09:59	1
2-Hexanone	7.4	U	50	7.4	ug/L			10/03/23 09:59	1
4-Methyl-2-pentanone	7.5	U	50	7.5	ug/L			10/03/23 09:59	1
Acetone	3.1	U	100	3.1	ug/L			10/03/23 09:59	1
Benzene	0.46	U	1.0	0.46	ug/L			10/03/23 09:59	1
Bromodichloromethane	0.55	U	1.0	0.55	ug/L			10/03/23 09:59	1
Bromoform	0.63	U	5.0	0.63	ug/L			10/03/23 09:59	1
Bromomethane	1.4	U	5.0	1.4	ug/L			10/03/23 09:59	1
Carbon disulfide	0.78	U	5.0	0.78	ug/L			10/03/23 09:59	1
Carbon tetrachloride	0.90	U	5.0	0.90	ug/L			10/03/23 09:59	1
Chlorobenzene	0.46	U	1.0	0.46	ug/L			10/03/23 09:59	1
Chloroethane	2.0	U	10	2.0	ug/L			10/03/23 09:59	1
Chloroform	0.46	U	1.0	0.46	ug/L			10/03/23 09:59	1
Chloromethane	2.0	U	10	2.0	ug/L			10/03/23 09:59	1
cis-1,2-Dichloroethene	0.46	U	1.0	0.46	ug/L			10/03/23 09:59	1
cis-1,3-Dichloropropene	1.1	U	5.0	1.1	ug/L			10/03/23 09:59	1
Cyclohexane	1.3	U	5.0	1.3	ug/L			10/03/23 09:59	1
Dibromochloromethane	0.55	U	5.0	0.55	ug/L			10/03/23 09:59	1
Dichlorodifluoromethane	0.79	U	1.0	0.79	ug/L			10/03/23 09:59	1
Ethylbenzene	0.39	U	1.0	0.39	ug/L			10/03/23 09:59	1
Isopropylbenzene	0.59	U	1.0	0.59	ug/L			10/03/23 09:59	1
m,p-Xylenes	1.2	U	10	1.2	ug/L			10/03/23 09:59	1
Methyl acetate	4.0	U	20	4.0	ug/L			10/03/23 09:59	1
Methyl tert-butyl ether	1.4	U	5.0	1.4	ug/L			10/03/23 09:59	1
Methylene Chloride	1.7	U	5.0	1.7	ug/L			10/03/23 09:59	1
o-Xylene	0.50	U	1.0	0.50	ug/L			10/03/23 09:59	1
Styrene	0.62	U	1.0	0.62	ug/L			10/03/23 09:59	1
Tetrachloroethene	0.66	U	1.0	0.66	ug/L			10/03/23 09:59	1
Toluene	0.48	U	1.0	0.48	ug/L			10/03/23 09:59	1
trans-1,2-Dichloroethene	0.37	U	1.0	0.37	ug/L			10/03/23 09:59	1
trans-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			10/03/23 09:59	1
Trichloroethene	0.79	U	5.0	0.79	ug/L			10/03/23 09:59	1
Trichlorofluoromethane	0.56	U	1.0	0.56	ug/L			10/03/23 09:59	1
Vinyl chloride	0.43	U	2.0	0.43	ug/L			10/03/23 09:59	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 860-124479/9
Matrix: Water
Analysis Batch: 124479

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	1.2	U	10	1.2	ug/L			10/03/23 09:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*63 - 144*		*10/03/23 09:59*	*1*
4-Bromofluorobenzene (Surr)	*103*		*74 - 124*		*10/03/23 09:59*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 131*		*10/03/23 09:59*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*10/03/23 09:59*	*1*

Lab Sample ID: LCS 860-124479/3
Matrix: Water
Analysis Batch: 124479

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	50.3		ug/L		101	70 - 130
1,1,2,2-Tetrachloroethane	50.0	45.1		ug/L		90	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	48.2		ug/L		96	60 - 140
1,1,2-Trichloroethane	50.0	47.4		ug/L		95	70 - 130
1,1-Dichloroethane	50.0	46.1		ug/L		92	70 - 130
1,1-Dichloroethene	50.0	49.1		ug/L		98	50 - 150
1,2,4-Trichlorobenzene	50.0	51.7		ug/L		103	75 - 135
1,2-Dibromo-3-Chloropropane	50.0	50.2		ug/L		100	59 - 125
1,2-Dibromoethane (EDB)	50.0	50.0		ug/L		100	73 - 125
1,2-Dichlorobenzene	50.0	48.5		ug/L		97	75 - 125
1,2-Dichloroethane	50.0	49.5		ug/L		99	72 - 130
1,2-Dichloropropane	50.0	47.3		ug/L		95	74 - 125
1,3-Dichlorobenzene	50.0	48.7		ug/L		97	75 - 125
1,4-Dichlorobenzene	50.0	48.4		ug/L		97	75 - 125
2-Butanone (MEK)	250	240		ug/L		96	60 - 140
2-Hexanone	250	247		ug/L		99	60 - 140
4-Methyl-2-pentanone	250	245		ug/L		98	60 - 140
Acetone	250	242		ug/L		97	60 - 140
Benzene	50.0	47.8		ug/L		96	75 - 125
Bromodichloromethane	50.0	49.2		ug/L		98	75 - 125
Bromoform	50.0	51.4		ug/L		103	70 - 130
Bromomethane	50.0	57.3		ug/L		115	60 - 140
Carbon disulfide	50.0	47.5		ug/L		95	60 - 140
Carbon tetrachloride	50.0	48.4		ug/L		97	70 - 130
Chlorobenzene	50.0	47.9		ug/L		96	65 - 135
Chloroethane	50.0	45.5		ug/L		91	60 - 140
Chloroform	50.0	48.0		ug/L		96	70 - 121
Chloromethane	50.0	54.0		ug/L		108	60 - 140
cis-1,2-Dichloroethene	50.0	47.3		ug/L		95	75 - 125
cis-1,3-Dichloropropene	50.0	49.9		ug/L		100	74 - 125
Cyclohexane	50.0	48.3		ug/L		97	70 - 130
Dibromochloromethane	50.0	50.5		ug/L		101	73 - 125
Dichlorodifluoromethane	50.0	52.8		ug/L		106	50 - 150
Ethylbenzene	50.0	47.9		ug/L		96	75 - 125
Isopropylbenzene	50.0	48.8		ug/L		98	75 - 125

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-124479/3
Matrix: Water
Analysis Batch: 124479

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
m,p-Xylenes	50.0	48.2		ug/L		96	75 - 125
Methyl acetate	100	95.3		ug/L		95	60 - 140
Methyl tert-butyl ether	50.0	51.1		ug/L		102	65 - 135
Methylene Chloride	50.0	45.0		ug/L		90	71 - 125
o-Xylene	50.0	47.9		ug/L		96	75 - 125
Styrene	50.0	49.0		ug/L		98	75 - 125
Tetrachloroethene	50.0	50.9		ug/L		102	71 - 125
Toluene	50.0	47.8		ug/L		96	70 - 130
trans-1,2-Dichloroethene	50.0	52.3		ug/L		105	75 - 125
trans-1,3-Dichloropropene	50.0	50.4		ug/L		101	66 - 125
Trichloroethene	50.0	52.1		ug/L		104	75 - 135
Trichlorofluoromethane	50.0	60.7		ug/L		121	60 - 140
Vinyl chloride	50.0	49.1		ug/L		98	60 - 140
Xylenes, Total	100	96.1		ug/L		96	75 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*63 - 144*
4-Bromofluorobenzene (Surr)	*100*		*74 - 124*
Dibromofluoromethane (Surr)	*101*		*75 - 131*
Toluene-d8 (Surr)	*99*		*80 - 120*

Lab Sample ID: LCSD 860-124479/4
Matrix: Water
Analysis Batch: 124479

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	50.0	50.1		ug/L		100	70 - 130	0	25
1,1,2,2-Tetrachloroethane	50.0	45.9		ug/L		92	74 - 125	2	25
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	49.4		ug/L		99	60 - 140	3	25
1,1,2-Trichloroethane	50.0	47.6		ug/L		95	70 - 130	0	25
1,1-Dichloroethane	50.0	46.3		ug/L		93	70 - 130	0	25
1,1-Dichloroethene	50.0	48.3		ug/L		97	50 - 150	2	25
1,2,4-Trichlorobenzene	50.0	51.3		ug/L		103	75 - 135	1	25
1,2-Dibromo-3-Chloropropane	50.0	51.7		ug/L		103	59 - 125	3	25
1,2-Dibromoethane (EDB)	50.0	50.3		ug/L		101	73 - 125	1	25
1,2-Dichlorobenzene	50.0	48.0		ug/L		96	75 - 125	1	25
1,2-Dichloroethane	50.0	49.0		ug/L		98	72 - 130	1	25
1,2-Dichloropropane	50.0	46.4		ug/L		93	74 - 125	2	25
1,3-Dichlorobenzene	50.0	48.0		ug/L		96	75 - 125	1	25
1,4-Dichlorobenzene	50.0	48.1		ug/L		96	75 - 125	1	25
2-Butanone (MEK)	250	247		ug/L		99	60 - 140	3	25
2-Hexanone	250	254		ug/L		102	60 - 140	3	25
4-Methyl-2-pentanone	250	251		ug/L		100	60 - 140	2	25
Acetone	250	250		ug/L		100	60 - 140	3	25
Benzene	50.0	46.7		ug/L		93	75 - 125	2	25
Bromodichloromethane	50.0	48.3		ug/L		97	75 - 125	2	25
Bromoform	50.0	51.6		ug/L		103	70 - 130	0	25
Bromomethane	50.0	57.5		ug/L		115	60 - 140	0	25

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-124479/4
Matrix: Water
Analysis Batch: 124479

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon disulfide			50.0	47.2		ug/L		94	60 - 140	1	25
Carbon tetrachloride			50.0	48.0		ug/L		96	70 - 130	1	25
Chlorobenzene			50.0	47.4		ug/L		95	65 - 135	1	25
Chloroethane			50.0	44.9		ug/L		90	60 - 140	1	25
Chloroform			50.0	47.4		ug/L		95	70 - 121	1	25
Chloromethane			50.0	52.6		ug/L		105	60 - 140	3	25
cis-1,2-Dichloroethene			50.0	47.0		ug/L		94	75 - 125	1	25
cis-1,3-Dichloropropene			50.0	49.1		ug/L		98	74 - 125	2	25
Cyclohexane			50.0	48.2		ug/L		96	70 - 130	0	25
Dibromochloromethane			50.0	50.2		ug/L		100	73 - 125	1	25
Dichlorodifluoromethane			50.0	53.1		ug/L		106	50 - 150	1	25
Ethylbenzene			50.0	47.3		ug/L		95	75 - 125	1	25
Isopropylbenzene			50.0	48.2		ug/L		96	75 - 125	1	25
m,p-Xylenes			50.0	47.6		ug/L		95	75 - 125	1	25
Methyl acetate			100	98.5		ug/L		99	60 - 140	3	25
Methyl tert-butyl ether			50.0	52.0		ug/L		104	65 - 135	2	25
Methylene Chloride			50.0	44.9		ug/L		90	71 - 125	0	25
o-Xylene			50.0	47.1		ug/L		94	75 - 125	2	25
Styrene			50.0	48.2		ug/L		96	75 - 125	2	25
Tetrachloroethene			50.0	50.4		ug/L		101	71 - 125	1	25
Toluene			50.0	47.2		ug/L		94	70 - 130	1	25
trans-1,2-Dichloroethene			50.0	51.9		ug/L		104	75 - 125	1	25
trans-1,3-Dichloropropene			50.0	50.3		ug/L		101	66 - 125	0	25
Trichloroethene			50.0	51.0		ug/L		102	75 - 135	2	25
Trichlorofluoromethane			50.0	61.0		ug/L		122	60 - 140	0	25
Vinyl chloride			50.0	48.9		ug/L		98	60 - 140	0	25
Xylenes, Total			100	94.7		ug/L		95	75 - 125	1	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*63 - 144*
4-Bromofluorobenzene (Surr)	*99*		*74 - 124*
Dibromofluoromethane (Surr)	*101*		*75 - 131*
Toluene-d8 (Surr)	*99*		*80 - 120*

Lab Sample ID: 860-58231-E-2 MS
Matrix: Water
Analysis Batch: 124479

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.59	U	50.0	51.6		ug/L		103	75 - 125
1,1,2,2-Tetrachloroethane	0.47	U	50.0	46.5		ug/L		93	74 - 125
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	50.0	52.8		ug/L		106	60 - 140
1,1,2-Trichloroethane	0.41	U	50.0	49.2		ug/L		98	75 - 127
1,1-Dichloroethane	0.64	U	50.0	47.9		ug/L		96	72 - 125
1,1-Dichloroethene	0.74	U	50.0	51.9		ug/L		104	59 - 172
1,2,4-Trichlorobenzene	1.8	U	50.0	52.8		ug/L		106	75 - 135
1,2-Dibromo-3-Chloropropane	0.67	U	50.0	48.7		ug/L		97	59 - 125
1,2-Dibromoethane (EDB)	1.0	U	50.0	51.2		ug/L		102	73 - 125

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 860-58231-E-2 MS
Matrix: Water
Analysis Batch: 124479

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichlorobenzene	0.43	U	50.0	49.8		ug/L		100	75 - 125
1,2-Dichloroethane	0.37	U	50.0	51.2		ug/L		102	68 - 127
1,2-Dichloropropane	0.56	U	50.0	48.2		ug/L		96	74 - 125
1,3-Dichlorobenzene	0.41	U	50.0	49.9		ug/L		100	75 - 125
1,4-Dichlorobenzene	0.45	U	50.0	49.9		ug/L		100	75 - 125
2-Butanone (MEK)	8.3	U	250	228		ug/L		91	60 - 140
2-Hexanone	7.4	U	250	240		ug/L		96	60 - 140
4-Methyl-2-pentanone	7.5	U	250	242		ug/L		97	60 - 140
Acetone	11	I	250	223		ug/L		85	60 - 140
Benzene	0.46	U	50.0	48.4		ug/L		97	66 - 142
Bromodichloromethane	0.55	U	50.0	50.4		ug/L		101	75 - 125
Bromoform	0.63	U	50.0	51.7		ug/L		103	75 - 125
Bromomethane	1.4	U	50.0	56.8		ug/L		114	60 - 140
Carbon disulfide	0.78	U	50.0	50.1		ug/L		100	60 - 140
Carbon tetrachloride	0.90	U	50.0	50.1		ug/L		100	62 - 125
Chlorobenzene	0.46	U	50.0	49.0		ug/L		98	60 - 133
Chloroethane	2.0	U	50.0	45.3		ug/L		91	60 - 140
Chloroform	0.46	U	50.0	49.3		ug/L		99	70 - 130
Chloromethane	2.0	U	50.0	52.5		ug/L		105	60 - 140
cis-1,2-Dichloroethene	0.46	U	50.0	48.0		ug/L		96	75 - 125
cis-1,3-Dichloropropene	1.1	U	50.0	51.3		ug/L		103	74 - 125
Cyclohexane	1.3	U	50.0	50.9		ug/L		102	70 - 130
Dibromochloromethane	0.55	U	50.0	51.6		ug/L		103	73 - 125
Dichlorodifluoromethane	0.79	U	50.0	58.2		ug/L		116	70 - 130
Ethylbenzene	0.39	U	50.0	49.1		ug/L		98	75 - 125
Isopropylbenzene	0.59	U	50.0	49.8		ug/L		100	75 - 125
m,p-Xylenes	1.2	U	50.0	49.1		ug/L		98	75 - 125
Methyl acetate	4.0	U	100	88.6		ug/L		89	60 - 140
Methyl tert-butyl ether	1.4	U	50.0	53.0		ug/L		106	65 - 135
Methylene Chloride	1.7	U	50.0	46.3		ug/L		93	75 - 125
o-Xylene	0.50	U	50.0	48.6		ug/L		97	75 - 125
Styrene	0.62	U	50.0	49.9		ug/L		100	75 - 125
Tetrachloroethene	0.66	U	50.0	52.2		ug/L		104	71 - 125
Toluene	0.48	U	50.0	49.4		ug/L		99	59 - 139
trans-1,2-Dichloroethene	0.37	U	50.0	53.5		ug/L		107	75 - 125
trans-1,3-Dichloropropene	1.3	U	50.0	52.5		ug/L		105	66 - 125
Trichloroethene	0.79	U	50.0	52.7		ug/L		105	62 - 137
Trichlorofluoromethane	0.56	U	50.0	62.1		ug/L		124	60 - 140
Vinyl chloride	0.43	U	50.0	48.5		ug/L		97	60 - 140
Xylenes, Total	1.2	U	100	97.7		ug/L		98	75 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*63 - 144*
4-Bromofluorobenzene (Surr)	*100*		*74 - 124*
Dibromofluoromethane (Surr)	*100*		*75 - 131*
Toluene-d8 (Surr)	*99*		*80 - 120*

GC/MS VOA

Analysis Batch: 124024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-27487-21	LC34-DPT0935-018.0-20230926	Total/NA	Water	8260D	
670-27487-22	LC34-DPT0935-025.0-20230926	Total/NA	Water	8260D	
670-27487-23	LC34-DPT0935-034.0-20230926	Total/NA	Water	8260D	
670-27487-24	LC34-DPT0935-038.0-20230926	Total/NA	Water	8260D	
670-27487-25	LC34-DPT0936-008.0-20230926	Total/NA	Water	8260D	
670-27487-26	LC34-DPT0936-013.0-20230926	Total/NA	Water	8260D	
670-27487-27	LC34-DPT0936-018.0-20230926	Total/NA	Water	8260D	
670-27487-28	LC34-DPT0936-025.0-20230926	Total/NA	Water	8260D	
670-27487-29	LC34-DPT0936-034.0-20230926	Total/NA	Water	8260D	
670-27487-30	LC34-DPT0936-038.0-20230926	Total/NA	Water	8260D	
670-27487-31	LC34-DPT0937-008.0-20230926	Total/NA	Water	8260D	
670-27487-32	LC34-DPT0937-013.0-20230926	Total/NA	Water	8260D	
670-27487-33	LC34-DPT0937-018.0-20230926	Total/NA	Water	8260D	
670-27487-34	LC34-DPT0937-025.0-20230926	Total/NA	Water	8260D	
670-27487-36	LC34-DPT0937-038.0-20230926	Total/NA	Water	8260D	
MB 860-124024/10	Method Blank	Total/NA	Water	8260D	
LCS 860-124024/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 860-124024/4	Lab Control Sample Dup	Total/NA	Water	8260D	
880-33722-D-1 MS	Matrix Spike	Total/NA	Water	8260D	

Analysis Batch: 124041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-27487-1	LC34-DPT0932-008.0-20230925	Total/NA	Water	8260D	
670-27487-2	LC34-DPT0932-013.0-20230925	Total/NA	Water	8260D	
670-27487-3	LC34-DPT0932-018.0-20230925	Total/NA	Water	8260D	
670-27487-4	LC34-DPT0932-025.0-20230925	Total/NA	Water	8260D	
670-27487-5	LC34-DPT0932-034.0-20230925	Total/NA	Water	8260D	
670-27487-6	LC34-DPT0932-038.0-20230925	Total/NA	Water	8260D	
670-27487-7	LC34-DPT0933-008.0-20230925	Total/NA	Water	8260D	
670-27487-8	LC34-DPT0933-013.0-20230925	Total/NA	Water	8260D	
670-27487-9	LC34-DPT0933-018.0-20230925	Total/NA	Water	8260D	
670-27487-10	LC34-DPT0933-025.0-20230925	Total/NA	Water	8260D	
670-27487-11	LC34-DPT0933-034.0-20230925	Total/NA	Water	8260D	
670-27487-12	LC34-DPT0933-038.0-20230925	Total/NA	Water	8260D	
670-27487-13	LC34-DPT0934-008.0-20230925	Total/NA	Water	8260D	
670-27487-14	LC34-DPT0934-013.0-20230925	Total/NA	Water	8260D	
670-27487-15	LC34-DPT0934-018.0-20230925	Total/NA	Water	8260D	
670-27487-16	LC34-DPT0934-025.0-20230925	Total/NA	Water	8260D	
670-27487-17	LC34-DPT0934-034.0-20230925	Total/NA	Water	8260D	
670-27487-18	LC34-DPT0934-038.0-20230925	Total/NA	Water	8260D	
670-27487-19	LC34-DPT0935-008.0-20230926	Total/NA	Water	8260D	
670-27487-20	LC34-DPT0935-013.0-20230926	Total/NA	Water	8260D	
MB 860-124041/16	Method Blank	Total/NA	Water	8260D	
LCS 860-124041/1011	Lab Control Sample	Total/NA	Water	8260D	
LCSD 860-124041/12	Lab Control Sample Dup	Total/NA	Water	8260D	
670-27487-1 MS	LC34-DPT0932-008.0-20230925	Total/NA	Water	8260D	

Analysis Batch: 124262

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-27487-2 - DL	LC34-DPT0932-013.0-20230925	Total/NA	Water	8260D	
670-27487-3 - DL	LC34-DPT0932-018.0-20230925	Total/NA	Water	8260D	

GC/MS VOA (Continued)

Analysis Batch: 124262 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-27487-3 - DL2	LC34-DPT0932-018.0-20230925	Total/NA	Water	8260D	
670-27487-4 - DL	LC34-DPT0932-025.0-20230925	Total/NA	Water	8260D	
670-27487-7	LC34-DPT0933-008.0-20230925	Total/NA	Water	8260D	
670-27487-9 - DL	LC34-DPT0933-018.0-20230925	Total/NA	Water	8260D	
670-27487-9 - DL2	LC34-DPT0933-018.0-20230925	Total/NA	Water	8260D	
670-27487-10 - DL	LC34-DPT0933-025.0-20230925	Total/NA	Water	8260D	
670-27487-11 - RA	LC34-DPT0933-034.0-20230925	Total/NA	Water	8260D	
670-27487-12 - RA	LC34-DPT0933-038.0-20230925	Total/NA	Water	8260D	
670-27487-18 - RA	LC34-DPT0934-038.0-20230925	Total/NA	Water	8260D	
670-27487-26 - DL	LC34-DPT0936-013.0-20230926	Total/NA	Water	8260D	
670-27487-27 - DL	LC34-DPT0936-018.0-20230926	Total/NA	Water	8260D	
670-27487-28 - DL	LC34-DPT0936-025.0-20230926	Total/NA	Water	8260D	
670-27487-30 - RA	LC34-DPT0936-038.0-20230926	Total/NA	Water	8260D	
670-27487-32 - DL	LC34-DPT0937-013.0-20230926	Total/NA	Water	8260D	
670-27487-33 - DL	LC34-DPT0937-018.0-20230926	Total/NA	Water	8260D	
670-27487-34 - DL	LC34-DPT0937-025.0-20230926	Total/NA	Water	8260D	
MB 860-124262/8	Method Blank	Total/NA	Water	8260D	
LCS 860-124262/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 860-124262/4	Lab Control Sample Dup	Total/NA	Water	8260D	
670-27487-7 MS	LC34-DPT0933-008.0-20230925	Total/NA	Water	8260D	

Analysis Batch: 124265

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-27487-5	LC34-DPT0932-034.0-20230925	Total/NA	Water	8260D	
MB 860-124265/9	Method Blank	Total/NA	Water	8260D	
LCS 860-124265/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 860-124265/4	Lab Control Sample Dup	Total/NA	Water	8260D	
670-27487-5 MS	LC34-DPT0932-034.0-20230925	Total/NA	Water	8260D	

Analysis Batch: 124268

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-27487-6 - RA	LC34-DPT0932-038.0-20230925	Total/NA	Water	8260D	
670-27487-36 - RA	LC34-DPT0937-038.0-20230926	Total/NA	Water	8260D	
MB 860-124268/9	Method Blank	Total/NA	Water	8260D	
LCS 860-124268/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 860-124268/4	Lab Control Sample Dup	Total/NA	Water	8260D	
670-27487-6 MS	LC34-DPT0932-038.0-20230925	Total/NA	Water	8260D	

Analysis Batch: 124308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-27487-29 - RA	LC34-DPT0936-034.0-20230926	Total/NA	Water	8260D	
MB 860-124308/10	Method Blank	Total/NA	Water	8260D	
LCS 860-124308/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 860-124308/4	Lab Control Sample Dup	Total/NA	Water	8260D	
860-58200-B-19 MS	Matrix Spike	Total/NA	Water	8260D	
860-58200-B-19 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Analysis Batch: 124479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-27487-35	LC34-DPT0937-034.0-20230926	Total/NA	Water	8260D	
MB 860-124479/9	Method Blank	Total/NA	Water	8260D	

GC/MS VOA (Continued)

Analysis Batch: 124479 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 860-124479/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 860-124479/4	Lab Control Sample Dup	Total/NA	Water	8260D	
860-58231-E-2 MS	Matrix Spike	Total/NA	Water	8260D	

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34

Job ID: 670-27487-1

Client Sample ID: LC34-DPT0932-008.0-20230925
Lab Sample ID: 670-27487-1
Date Collected: 09/25/23 09:25
Matrix: Water
Date Received: 09/27/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	124041	NA	EET HOU	09/29/23 15:28

Client Sample ID: LC34-DPT0932-013.0-20230925
Lab Sample ID: 670-27487-2
Date Collected: 09/25/23 09:40
Matrix: Water
Date Received: 09/27/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	124041	NA	EET HOU	09/29/23 15:48
Total/NA	Analysis	8260D	DL	10	124262	AN	EET HOU	10/02/23 16:19

Client Sample ID: LC34-DPT0932-018.0-20230925
Lab Sample ID: 670-27487-3
Date Collected: 09/25/23 09:55
Matrix: Water
Date Received: 09/27/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	124041	NA	EET HOU	09/29/23 16:09
Total/NA	Analysis	8260D	DL	20	124262	AN	EET HOU	10/02/23 17:00
Total/NA	Analysis	8260D	DL2	200	124262	AN	EET HOU	10/02/23 17:20

Client Sample ID: LC34-DPT0932-025.0-20230925
Lab Sample ID: 670-27487-4
Date Collected: 09/25/23 10:10
Matrix: Water
Date Received: 09/27/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	124041	NA	EET HOU	09/29/23 16:29
Total/NA	Analysis	8260D	DL	20	124262	AN	EET HOU	10/02/23 16:39

Client Sample ID: LC34-DPT0932-034.0-20230925
Lab Sample ID: 670-27487-5
Date Collected: 09/25/23 10:30
Matrix: Water
Date Received: 09/27/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	124041	NA	EET HOU	09/29/23 16:50
Total/NA	Analysis	8260D		1	124265	NA	EET HOU	10/02/23 10:23

Client Sample ID: LC34-DPT0932-038.0-20230925
Lab Sample ID: 670-27487-6
Date Collected: 09/25/23 10:50
Matrix: Water
Date Received: 09/27/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	124041	NA	EET HOU	09/29/23 17:10
Total/NA	Analysis	8260D	RA	1	124268	NA	EET HOU	10/02/23 10:20

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34

Job ID: 670-27487-1

Client Sample ID: LC34-DPT0933-008.0-20230925
Lab Sample ID: 670-27487-7
Date Collected: 09/25/23 11:25
Matrix: Water
Date Received: 09/27/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	124041	NA	EET HOU	09/29/23 17:31
Total/NA	Analysis	8260D		1	124262	AN	EET HOU	10/02/23 11:53

Client Sample ID: LC34-DPT0933-013.0-20230925
Lab Sample ID: 670-27487-8
Date Collected: 09/25/23 11:40
Matrix: Water
Date Received: 09/27/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	124041	NA	EET HOU	09/29/23 17:51

Client Sample ID: LC34-DPT0933-018.0-20230925
Lab Sample ID: 670-27487-9
Date Collected: 09/25/23 11:55
Matrix: Water
Date Received: 09/27/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	124041	NA	EET HOU	09/29/23 18:12
Total/NA	Analysis	8260D	DL	20	124262	AN	EET HOU	10/02/23 17:41
Total/NA	Analysis	8260D	DL2	200	124262	AN	EET HOU	10/02/23 18:01

Client Sample ID: LC34-DPT0933-025.0-20230925
Lab Sample ID: 670-27487-10
Date Collected: 09/25/23 12:15
Matrix: Water
Date Received: 09/27/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	124041	NA	EET HOU	09/29/23 18:32
Total/NA	Analysis	8260D	DL	10	124262	AN	EET HOU	10/02/23 15:58

Client Sample ID: LC34-DPT0933-034.0-20230925
Lab Sample ID: 670-27487-11
Date Collected: 09/25/23 12:35
Matrix: Water
Date Received: 09/27/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	124041	NA	EET HOU	09/29/23 18:53
Total/NA	Analysis	8260D	RA	1	124262	AN	EET HOU	10/02/23 12:13

Client Sample ID: LC34-DPT0933-038.0-20230925
Lab Sample ID: 670-27487-12
Date Collected: 09/25/23 12:55
Matrix: Water
Date Received: 09/27/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	124041	NA	EET HOU	09/29/23 19:13
Total/NA	Analysis	8260D	RA	1	124262	AN	EET HOU	10/02/23 12:33

Lab Chronicle

Client: Tetra Tech, Inc.
Job ID: 670-27487-1
Project/Site: NASA KSC LC34

Client Sample ID: LC34-DPT0934-008.0-20230925
Lab Sample ID: 670-27487-13
Date Collected: 09/25/23 14:25
Matrix: Water
Date Received: 09/27/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	124041	NA	EET HOU	09/29/23 19:34

Client Sample ID: LC34-DPT0934-013.0-20230925
Lab Sample ID: 670-27487-14
Date Collected: 09/25/23 14:40
Matrix: Water
Date Received: 09/27/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	124041	NA	EET HOU	09/29/23 19:54

Client Sample ID: LC34-DPT0934-018.0-20230925
Lab Sample ID: 670-27487-15
Date Collected: 09/25/23 15:00
Matrix: Water
Date Received: 09/27/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	124041	NA	EET HOU	09/29/23 20:15

Client Sample ID: LC34-DPT0934-025.0-20230925
Lab Sample ID: 670-27487-16
Date Collected: 09/25/23 15:20
Matrix: Water
Date Received: 09/27/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	124041	NA	EET HOU	09/29/23 20:35

Client Sample ID: LC34-DPT0934-034.0-20230925
Lab Sample ID: 670-27487-17
Date Collected: 09/25/23 15:40
Matrix: Water
Date Received: 09/27/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	124041	NA	EET HOU	09/29/23 20:56

Client Sample ID: LC34-DPT0934-038.0-20230925
Lab Sample ID: 670-27487-18
Date Collected: 09/25/23 16:00
Matrix: Water
Date Received: 09/27/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	124041	NA	EET HOU	09/29/23 21:16
Total/NA	Analysis	8260D	RA	1	124262	AN	EET HOU	10/02/23 12:54

Client Sample ID: LC34-DPT0935-008.0-20230926
Lab Sample ID: 670-27487-19
Date Collected: 09/26/23 07:35
Matrix: Water
Date Received: 09/27/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	124041	NA	EET HOU	09/29/23 21:37

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34

Job ID: 670-27487-1

Client Sample ID: LC34-DPT0935-013.0-20230926
Lab Sample ID: 670-27487-20
Date Collected: 09/26/23 07:50
Matrix: Water
Date Received: 09/27/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	124041	NA	EET HOU	09/29/23 21:58

Client Sample ID: LC34-DPT0935-018.0-20230926
Lab Sample ID: 670-27487-21
Date Collected: 09/26/23 08:05
Matrix: Water
Date Received: 09/27/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	124024	AN	EET HOU	09/29/23 16:50

Client Sample ID: LC34-DPT0935-025.0-20230926
Lab Sample ID: 670-27487-22
Date Collected: 09/26/23 08:20
Matrix: Water
Date Received: 09/27/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	124024	AN	EET HOU	09/29/23 17:10

Client Sample ID: LC34-DPT0935-034.0-20230926
Lab Sample ID: 670-27487-23
Date Collected: 09/26/23 08:40
Matrix: Water
Date Received: 09/27/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	124024	AN	EET HOU	09/29/23 17:31

Client Sample ID: LC34-DPT0935-038.0-20230926
Lab Sample ID: 670-27487-24
Date Collected: 09/26/23 09:00
Matrix: Water
Date Received: 09/27/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	124024	AN	EET HOU	09/29/23 17:51

Client Sample ID: LC34-DPT0936-008.0-20230926
Lab Sample ID: 670-27487-25
Date Collected: 09/26/23 09:50
Matrix: Water
Date Received: 09/27/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	124024	AN	EET HOU	09/29/23 18:11

Client Sample ID: LC34-DPT0936-013.0-20230926
Lab Sample ID: 670-27487-26
Date Collected: 09/26/23 10:05
Matrix: Water
Date Received: 09/27/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	124024	AN	EET HOU	09/29/23 18:32
Total/NA	Analysis	8260D	DL	5	124262	AN	EET HOU	10/02/23 13:35

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34

Job ID: 670-27487-1

Client Sample ID: LC34-DPT0936-018.0-20230926
Lab Sample ID: 670-27487-27
Date Collected: 09/26/23 10:20
Matrix: Water
Date Received: 09/27/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	124024	AN	EET HOU	09/29/23 18:52
Total/NA	Analysis	8260D	DL	20	124262	AN	EET HOU	10/02/23 13:55

Client Sample ID: LC34-DPT0936-025.0-20230926
Lab Sample ID: 670-27487-28
Date Collected: 09/26/23 10:35
Matrix: Water
Date Received: 09/27/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	124024	AN	EET HOU	09/29/23 19:13
Total/NA	Analysis	8260D	DL	100	124262	AN	EET HOU	10/02/23 14:16

Client Sample ID: LC34-DPT0936-034.0-20230926
Lab Sample ID: 670-27487-29
Date Collected: 09/26/23 10:55
Matrix: Water
Date Received: 09/27/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D	RA	1	124308	T1S	EET HOU	10/02/23 14:49
Total/NA	Analysis	8260D		1	124024	AN	EET HOU	09/29/23 19:33

Client Sample ID: LC34-DPT0936-038.0-20230926
Lab Sample ID: 670-27487-30
Date Collected: 09/26/23 11:15
Matrix: Water
Date Received: 09/27/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	124024	AN	EET HOU	09/29/23 19:54
Total/NA	Analysis	8260D	RA	1	124262	AN	EET HOU	10/02/23 13:14

Client Sample ID: LC34-DPT0937-008.0-20230926
Lab Sample ID: 670-27487-31
Date Collected: 09/26/23 11:55
Matrix: Water
Date Received: 09/27/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	124024	AN	EET HOU	09/29/23 20:15

Client Sample ID: LC34-DPT0937-013.0-20230926
Lab Sample ID: 670-27487-32
Date Collected: 09/26/23 12:10
Matrix: Water
Date Received: 09/27/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	124024	AN	EET HOU	09/29/23 20:35
Total/NA	Analysis	8260D	DL	5	124262	AN	EET HOU	10/02/23 14:36

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34

Job ID: 670-27487-1

Client Sample ID: LC34-DPT0937-018.0-20230926
Lab Sample ID: 670-27487-33
Date Collected: 09/26/23 12:25
Matrix: Water
Date Received: 09/27/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	124024	AN	EET HOU	09/29/23 21:16
Total/NA	Analysis	8260D	DL	25	124262	AN	EET HOU	10/02/23 14:57

Client Sample ID: LC34-DPT0937-025.0-20230926
Lab Sample ID: 670-27487-34
Date Collected: 09/26/23 12:45
Matrix: Water
Date Received: 09/27/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	124024	AN	EET HOU	09/29/23 21:37
Total/NA	Analysis	8260D	DL	100	124262	AN	EET HOU	10/02/23 15:17

Client Sample ID: LC34-DPT0937-034.0-20230926
Lab Sample ID: 670-27487-35
Date Collected: 09/26/23 13:05
Matrix: Water
Date Received: 09/27/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		5	124479	AN	EET HOU	10/03/23 16:49

Client Sample ID: LC34-DPT0937-038.0-20230926
Lab Sample ID: 670-27487-36
Date Collected: 09/26/23 13:25
Matrix: Water
Date Received: 09/27/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D	RA	1	124268	NA	EET HOU	10/02/23 13:45
Total/NA	Analysis	8260D		1	124024	AN	EET HOU	09/29/23 22:18

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34

Job ID: 670-27487-1

Laboratory: Eurofins Houston

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E871002	06-30-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260D		Water	Cyclohexane

Method Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34

Job ID: 670-27487-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET HOU
5030C	Purge and Trap	SW846	EET HOU

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34

Job ID: 670-27487-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
670-27487-1	LC34-DPT0932-008.0-20230925	Water	09/25/23 09:25	09/27/23 08:00
670-27487-2	LC34-DPT0932-013.0-20230925	Water	09/25/23 09:40	09/27/23 08:00
670-27487-3	LC34-DPT0932-018.0-20230925	Water	09/25/23 09:55	09/27/23 08:00
670-27487-4	LC34-DPT0932-025.0-20230925	Water	09/25/23 10:10	09/27/23 08:00
670-27487-5	LC34-DPT0932-034.0-20230925	Water	09/25/23 10:30	09/27/23 08:00
670-27487-6	LC34-DPT0932-038.0-20230925	Water	09/25/23 10:50	09/27/23 08:00
670-27487-7	LC34-DPT0933-008.0-20230925	Water	09/25/23 11:25	09/27/23 08:00
670-27487-8	LC34-DPT0933-013.0-20230925	Water	09/25/23 11:40	09/27/23 08:00
670-27487-9	LC34-DPT0933-018.0-20230925	Water	09/25/23 11:55	09/27/23 08:00
670-27487-10	LC34-DPT0933-025.0-20230925	Water	09/25/23 12:15	09/27/23 08:00
670-27487-11	LC34-DPT0933-034.0-20230925	Water	09/25/23 12:35	09/27/23 08:00
670-27487-12	LC34-DPT0933-038.0-20230925	Water	09/25/23 12:55	09/27/23 08:00
670-27487-13	LC34-DPT0934-008.0-20230925	Water	09/25/23 14:25	09/27/23 08:00
670-27487-14	LC34-DPT0934-013.0-20230925	Water	09/25/23 14:40	09/27/23 08:00
670-27487-15	LC34-DPT0934-018.0-20230925	Water	09/25/23 15:00	09/27/23 08:00
670-27487-16	LC34-DPT0934-025.0-20230925	Water	09/25/23 15:20	09/27/23 08:00
670-27487-17	LC34-DPT0934-034.0-20230925	Water	09/25/23 15:40	09/27/23 08:00
670-27487-18	LC34-DPT0934-038.0-20230925	Water	09/25/23 16:00	09/27/23 08:00
670-27487-19	LC34-DPT0935-008.0-20230926	Water	09/26/23 07:35	09/27/23 08:00
670-27487-20	LC34-DPT0935-013.0-20230926	Water	09/26/23 07:50	09/27/23 08:00
670-27487-21	LC34-DPT0935-018.0-20230926	Water	09/26/23 08:05	09/27/23 08:00
670-27487-22	LC34-DPT0935-025.0-20230926	Water	09/26/23 08:20	09/27/23 08:00
670-27487-23	LC34-DPT0935-034.0-20230926	Water	09/26/23 08:40	09/27/23 08:00
670-27487-24	LC34-DPT0935-038.0-20230926	Water	09/26/23 09:00	09/27/23 08:00
670-27487-25	LC34-DPT0936-008.0-20230926	Water	09/26/23 09:50	09/27/23 08:00
670-27487-26	LC34-DPT0936-013.0-20230926	Water	09/26/23 10:05	09/27/23 08:00
670-27487-27	LC34-DPT0936-018.0-20230926	Water	09/26/23 10:20	09/27/23 08:00
670-27487-28	LC34-DPT0936-025.0-20230926	Water	09/26/23 10:35	09/27/23 08:00
670-27487-29	LC34-DPT0936-034.0-20230926	Water	09/26/23 10:55	09/27/23 08:00
670-27487-30	LC34-DPT0936-038.0-20230926	Water	09/26/23 11:15	09/27/23 08:00
670-27487-31	LC34-DPT0937-008.0-20230926	Water	09/26/23 11:55	09/27/23 08:00
670-27487-32	LC34-DPT0937-013.0-20230926	Water	09/26/23 12:10	09/27/23 08:00
670-27487-33	LC34-DPT0937-018.0-20230926	Water	09/26/23 12:25	09/27/23 08:00
670-27487-34	LC34-DPT0937-025.0-20230926	Water	09/26/23 12:45	09/27/23 08:00
670-27487-35	LC34-DPT0937-034.0-20230926	Water	09/26/23 13:05	09/27/23 08:00
670-27487-36	LC34-DPT0937-038.0-20230926	Water	09/26/23 13:25	09/27/23 08:00

Tetra Tech, Inc. CHAIN OF CUSTODY | NUMBER No. 3742 | PAGE 1 OF 3

PROJECT NO: 112G08985	FACILITY: KSC-LC34	PROJECT MANAGER Mark Jonnet	PHONE NUMBER (412) 921-8622	LABORATORY NAME AND CONTACT: Eurofins — Kaitlin Dylnicki
SAMPLERS (SIGNATURE) - Chuck Sorden		FIELD OPERATIONS LEADER Chuck Sorden	PHONE NUMBER (321) 591-7580	ADDRESS 481 Newburyport Ave.
		CARRIER/WAYBILL NUMBER		CITY, STATE Altamonte Springs, FL

STANDARD TAT ☒
RUSH TAT ☐ ☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): G G
PRESERVATIVE USED: HCl/4°C 4°C

DATE YEAR 2023	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS: 8260D (MOD) NASA LC34 Custom List	TYPE OF ANALYSIS: 8260D (MOD) NASA LC34 Custom List	COMMENTS
09/25	0925	LC34-DPT0932-008.0-20230925	12	6	10	GW	G	4	X	X	
1	0940	LC34-DPT0932-013.0-20230925	1	11	15	1	1	1	1	1	
	0955	LC34-DPT0932-018.0-20230925		16	20						
	1010	LC34-DPT0932-025.0-20230925		23	27						
	1030	LC34-DPT0932-034.0-20230925		32	36						
	1050	LC34-DPT0932-038.0-20230925	12	36	40						
	1125	LC34-DPT0933-008.0-20230925	05	6	10						
	1140	LC34-DPT0933-013.0-20230925	1	11	15						
	1155	LC34-DPT0933-018.0-20230925		16	20						
	1215	LC34-DPT0933-025.0-20230925		23	27						
	1235	LC34-DPT0933-034.0-20230925		32	36						
	1255	LC34-DPT0933-038.0-20230925	05	36	40						
09/25	1425	LC34-DPT0934-008.0-20230925	107	6	10	GW	G	4	X	X	



1. RELINQUISHED BY	DATE 09/26/23	TIME	1. RECEIVED BY	DATE	TIME	
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME	
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE 9-27-23	TIME 0800	

COMMENTS 3.0 12.5

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

FORM NO. TtNUS-004 4/02R

Tetra Tech, Inc. CHAIN OF CUSTODY | NUMBER No. 3743 | PAGE 2 OF 3

PROJECT NO: 112G08985	FACILITY: KSC-LC34	PROJECT MANAGER Mark Sonner	PHONE NUMBER (412) 921-8622	LABORATORY NAME AND CONTACT: Eurofins – Kaitlin Dylnicki
SAMPLERS (SIGNATURE) – Chuck Sorden		FIELD OPERATIONS LEADER Chuck Sorden	PHONE NUMBER (321) 591-7580	ADDRESS 481 Newburyport Ave.
		CARRIER/WAYBILL NUMBER		CITY, STATE Altamonte Springs, FL

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): G G
PRESERVATIVE USED: HCl/4°C 4°C
TYPE OF ANALYSIS: 8260D-(MOD) NASA LC34 Custom List; 8260D-(MOD) NASA LC34 Custom List

DATE YEAR 2023	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS			COMMENTS
09/25	1440	LC34-DPT0934-013.0-20230925	107	11	15	GW	G	4	X	X	
↓	1500	LC34-DPT0934-018.0-20230925	↓	16	20	↓	↓	↓	↓	↓	
	1520	LC34-DPT0934-025.0-20230925		23	27						
	1540	LC34-DPT0934-034.0-20230925		32	36						
09/25	1600	LC34-DPT0934-038.0-20230925	107	36	40						
09/26	0735	LC34-DPT0935-008.0-20230926	108	6	10						
↓	0750	LC34-DPT0935-013.0-20230926	↓	11	15						
	0805	LC34-DPT0935-018.0-20230926		16	20						
	0820	LC34-DPT0935-025.0-20230926		23	27						
	0840	LC34-DPT0935-034.0-20230926		32	36						
	0900	LC34-DPT0935-038.0-20230926	108	36	40						
	0950	LC34-DPT0936-008.0-20230926	109	6	10						
09/26	1005	LC34-DPT0936-013.0-20230926	109	11	15	GW	G	4	X	X	

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	09/26/23		1. RECEIVED BY		
2. RELINQUISHED BY			2. RECEIVED BY		
3. RELINQUISHED BY			3. RECEIVED BY	9-29-23	0800

COMMENTS 30 / 25

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Tetra Tech, Inc.

CHAIN OF CUSTODY | NUMBER No. 3744 | PAGE 3 OF 3

PROJECT NO: 112G089885	FACILITY: KSC-LC34	PROJECT MANAGER Mark Jonner	PHONE NUMBER (412) 921-8622	LABORATORY NAME AND CONTACT: Eurofins — Kathin Dylnicki
SAMPLERS (SIGNATURE) — Chuck Sorden		FIELD OPERATIONS LEADER Chuck Sorden	PHONE NUMBER (321) 591-7580	ADDRESS 481 Newburyport Ave.
		CARRIER/WAYBILL NUMBER		CITY, STATE Altamonte Springs, FL

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2023	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)												COMMENTS
									PRESERVATIVE USED			HCl/4°C	4°C								
									TYPE OF ANALYSIS			8260D-(MOD) NASA LC34 Custom List	8260D-(MOD) NASA LC34 Custom List								
09/26	1020	LC34-DPT0936-018.0-20230926	109	16	20	GW	G	4				X	X								
	1035	LC34-DPT0936-025.0-20230926		23	27																
	1055	LC34-DPT0936-034.0-20230926		32	36																
	1115	LC34-DPT0936-038.0-20230926	109	36	40																
	1155	LC34-DPT0937-008.0-20230926	110	6	10																
	1210	LC34-DPT0937-013.0-20230926		11	15																
	1225	LC34-DPT0937-018.0-20230926		16	20																
	1245	LC34-DPT0937-025.0-20230926		23	27																
	1305	LC34-DPT0937-034.0-20230926		32	36																
09/26	1325	LC34-DPT0937-038.0-20230926	110	36	40	GW	G	4				X	X								

1. RELINQUISHED BY	DATE 09/26/23	TIME	1. RECEIVED BY	DATE	TIME
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE 9-27-23	TIME 0800

COMMENTS 3.0 / 2.5

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

FORM NO. TtNUS-007 4/02R

Eurofins Orlando
481 Newburyport Avenue
Altamonte Springs, FL 32701
Phone: 407-339-5984 Fax: 407-260-6110

Chain of Custody Record

eurofins

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Dylnicki Kaitlin	Carrier Tracking No(s):	COC No: 670-15892.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: kaitlin.dylnicki@et.eurofinsus.com	State of Origin: Florida	Page: Page 1 of 4
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP Florida		Job #: 670-27487-1
Address: 4145 Greenbriar Dr	Due Date Requested: 10/6/2023			
City: Stafford	TAT Requested (days):			
State, Zip: TX, 77477	PO #:			
Phone: 281-240-4200(Tel)	WO #:			
Email:				
Project Name: NASA KSC LC34	Project #: 67001156			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify)

Other

Temp 3.0 IR ID HOU-369
C/F -0.0
Corrected Temp 3.0

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D/5030C (MOD) NASA LC34 Custom	8260D/5030C_UP (MOD) NASA LC34 Custom	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
LC34-DPT0932-008.0-20230925 (670-27487-1)	9/25/23	09:25 Eastern		Water			X	X	4	use caution site high in TCE. use caution site high in TCE. unp in case of HDSP in
LC34-DPT0932-013.0-20230925 (670-27487-2)	9/25/23	09:40 Eastern		Water			X	X	4	use caution site high in TCE. use caution site high in TCE. unp in case of HDSP in
LC34-DPT0932-018.0-20230925 (670-27487-3)	9/25/23	09:55 Eastern		Water			X	X	4	use caution site high in TCE. use caution site high in TCE. unp in case of HDSP in
LC34-DPT0932-025.0-20230925 (670-27487-4)	9/25/23	10:10 Eastern		Water			X	X	4	use caution site high in TCE. use caution site high in TCE. unp in case of HDSP in
LC34-DPT0932-034.0-20230925 (670-27487-5)	9/25/23	10:30 Eastern		Water			X	X	4	use caution site high in TCE. use caution site high in TCE. unp in case of HDSP in
LC34-DPT0932-038.0-20230925 (670-27487-6)	9/25/23	10:50 Eastern		Water			X	X	4	use caution site high in TCE. use caution site high in TCE. unp in case of HDSP in
LC34-DPT0933-008.0-20230925 (670-27487 7)	9/25/23	11:25 Eastern		Water			X	X	4	use caution site high in TCE. use caution site high in TCE. unp in case of HDSP in
LC34-DPT0933-013.0-20230925 (670-27487-8)	9/25/23	11:40 Eastern		Water			X	X	4	use caution site high in TCE. use caution site high in TCE. unp in case of HDSP in
LC34-DPT0933-018.0-20230925 (670-27487-9)	9/25/23	11:55 Eastern		Water			X	X	4	use caution site high in TCE. use caution site high in TCE. unp in case of HDSP in

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I II III IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 9-27-23 1700	Company E-ORL	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: Jeremiah Baker	Date/Time: 9/28/2023 9:55	Company EX
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Eurofins Orlando
481 Newburyport Avenue
Altamonte Springs, FL 32701
Phone: 407-339-5984 Fax: 407-260-6110

Chain of Custody Record

eurofins

Client Information (Sub Contract Lab)	Sampler	Lab PM: Dylnicki Kaitlin	Carrier Tracking No(s):	COC No: 670-15892.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: kaitlin.dylnicki@et.eurofinsus.com	State of Origin: Florida	Page: Page 2 of 4
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP Florida		Job #: 670-27487 1
Address: 4145 Greenbriar Dr	Due Date Requested: 10/6/2023			
City: Stafford	TAT Requested (days):			
State, Zip: TX, 77477				
Phone: 281-240-4200(Tel)	PO #:			
Email:	WO #:			
Project Name: NASA KSC LC34	Project #: 67001156			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A	HCL	M	Hexane
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Y	Trizma
		Z	other (specify)

Other

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D/5030C (MOD) NASA LC34 Custom	8260D/5030C_UP (MOD) NASA LC34 Custom	Total Number of containers	Special Instructions/Note:
			Preservation Code:							HW369 3.0 3.0
LC34-DPT0933-025.0-20230925 (670-27487-10)	9/25/23	12:15 Eastern		Water			X	X	4	use caution site high in TCE. use caution site high in TCE. unp in case of HDSP in
LC34-DPT0933-034.0-20230925 (670-27487-11)	9/25/23	12:35 Eastern		Water			X	X	4	use caution site high in TCE. use caution site high in TCE. unp in case of HDSP in
LC34-DPT0933-038.0-20230925 (670-27487 12)	9/25/23	12:55 Eastern		Water			X	X	4	use caution site high in TCE. use caution site high in TCE. unp in case of HDSP in
LC34-DPT0934-008.0-20230925 (670-27487 13)	9/25/23	14:25 Eastern		Water			X	X	4	use caution site high in TCE. use caution site high in TCE. unp in case of HDSP in
LC34-DPT0934-013.0-20230925 (670-27487-14)	9/25/23	14:40 Eastern		Water			X	X	4	use caution site high in TCE. use caution site high in TCE. unp in case of HDSP in
LC34-DPT0934-018.0-20230925 (670-27487-15)	9/25/23	15:00 Eastern		Water			X	X	4	use caution site high in TCE. use caution site high in TCE. unp in case of HDSP in
LC34-DPT0934-025.0-20230925 (670-27487 16)	9/25/23	15:20 Eastern		Water			X	X	4	use caution site high in TCE. use caution site high in TCE. unp in case of HDSP in
LC34-DPT0934-034.0-20230925 (670-27487-17)	9/25/23	15:40 Eastern		Water			X	X	4	use caution site high in TCE. use caution site high in TCE. unp in case of HDSP in
LC34-DPT0934-038.0-20230925 (670-27487-18)	9/25/23	16:00 Eastern		Water			X	X	4	use caution site high in TCE. use caution site high in TCE. unp in case of HDSP in

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I II III IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		9-27-23 1700	EOR			
2	Relinquished by:	Date/Time:	Company	Received by: Jeremiah Baker	Date/Time: 9/28/2023 9:55	Company EX
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Eurofins Orlando
481 Newburyport Avenue
Altamonte Springs, FL 32701
Phone: 407-339-5984 Fax: 407-260-6110

Chain of Custody Record

eurofins

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Dylnicki, Kaitlin	Carrier Tracking No(s):	COC No: 670-15892.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: kaitlin.dylnicki@et.eurofinsus.com	State of Origin: Florida	Page: Page 3 of 4
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP Florida		Job #: 670-27487-1
Address: 4145 Greenbriar Dr	Due Date Requested: 10/6/2023	Analysis Requested		Preservation Codes:
City: Stafford	TAT Requested (days):			A HCL M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E NaHSO4 Q Na2SO3 F MeOH R Na2S2O3 G Amchlor S H2SO4 H Ascorbic Acid T TSP Dodecahydrate I Ice U Acetone J DI Water V MCAA K EDTA W pH 4-5 L EDA Y Trizma Z other (specify) Other:
State, Zip: TX, 77477				
Phone: 281-240-4200(Tel)	PO #:			
Email:	WO #:			
Project Name: NASA KSC LC34	Project #: 67001156			
Site:	SSOW#:			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D/5030C (MOD) NASA LC34 Custom	8260D/5030C_UP (MOD) NASA LC34 Custom	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
LC34-DPT0935-008.0-20230926 (670-27487-19)	9/26/23	07:35 Eastern		Water			X	X	4	use caution site high in TCE. use caution site high in TCE. unp in case of HDSP in
LC34-DPT0935-013.0-20230926 (670-27487-20)	9/26/23	07:50 Eastern		Water			X	X	4	use caution site high in TCE. use caution site high in TCE. unp in case of HDSP in
LC34-DPT0935-018.0-20230926 (670-27487-21)	9/26/23	08:05 Eastern		Water			X	X	4	use caution site high in TCE. use caution site high in TCE. unp in case of HDSP in
LC34-DPT0935-025.0-20230926 (670-27487-22)	9/26/23	08:20 Eastern		Water			X	X	4	use caution site high in TCE. use caution site high in TCE. unp in case of HDSP in
LC34-DPT0935-034.0-20230926 (670-27487-25)	9/26/23	08:40 Eastern		Water			X	X	4	use caution site high in TCE. use caution site high in TCE. unp in case of HDSP in
LC34-DPT0935-038.0-20230926 (670-27487-24)	9/26/23	09:00 Eastern		Water			X	X	4	use caution site high in TCE. use caution site high in TCE. unp in case of HDSP in
LC34-DPT0936-008.0-20230926 (670-27487-25)	9/26/23	09:50 Eastern		Water			X	X	4	use caution site high in TCE. use caution site high in TCE. unp in case of HDSP in
LC34-DPT0936-013.0-20230926 (670-27487-26)	9/26/23	10:05 Eastern		Water			X	X	4	use caution site high in TCE. use caution site high in TCE. unp in case of HDSP in
LC34-DPT0936-018.0-20230926 (670-27487-27)	9/26/23	10:20 Eastern		Water			X	X	4	use caution site high in TCE. use caution site high in TCE. unp in case of HDSP in

Hou369 3.0 3.0

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I II III IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	9-27-23 1700	E-ORL			
Relinquished by:	Date/Time:	Company	Received by: [signature]	Date/Time: 9/28/2023 9:55	Company EX
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:

Ver 06/08/2021

Eurofins Orlando
481 Newburyport Avenue
Altamonte Springs, FL 32701
Phone: 407-339-5984 Fax: 407-260-6110

Chain of Custody Record

eurofins

Client Information (Sub Contract Lab)	Sampler	Lab PM: Dylnicki Kaitlin	Carrier Tracking No(s):	COC No: 670-15892.4
Client Contact: Shipping/Receiving	Phone:	E-Mail: kaitlin.dylnicki@et.eurofinsus.com	State of Origin: Florida	Page: Page 4 of 4
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP Florida		Job #: 670-27487 1
Address: 4145 Greenbriar Dr	Due Date Requested: 10/6/2023			
City: Stafford	TAT Requested (days):			
State, Zip: TX, 77477				
Phone: 281-240-4200(Tel)	PO #:			
Email:	WO #:			
Project Name: NASA KSC LC34	Project #: 67001156			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify)

Other:

HOLD 269 3.0 3.0

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D/5030C (MOD) NASA LC34 Custom	8260D/5030C_UP (MOD) NASA LC34 Custom	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
LC34-DPT0936-025.0-20230926 (670-27487-28)	9/26/23	10:35 Eastern		Water			X	X	4	use caution site high in TCE. use caution site high in TCE. unp in case of HDSP in
LC34-DPT0936-034.0-20230926 (670-27487-29)	9/26/23	10:55 Eastern		Water			X	X	4	use caution site high in TCE. use caution site high in TCE. unp in case of HDSP in
LC34-DPT0936-038.0-20230926 (670-27487-30)	9/26/23	11 15 Eastern		Water			X	X	4	use caution site high in TCE. use caution site high in TCE. unp in case of HDSP in
LC34-DPT0937-008.0-20230926 (670-27487-31)	9/26/23	11:55 Eastern		Water			X	X	4	use caution site high in TCE. use caution site high in TCE. unp in case of HDSP in
LC34-DPT0937-013.0-20230926 (670-27487-32)	9/26/23	12:10 Eastern		Water			X	X	4	use caution site high in TCE. use caution site high in TCE. unp in case of HDSP in
LC34-DPT0937-018.0-20230926 (670-27487-33)	9/26/23	12:25 Eastern		Water			X	X	4	use caution site high in TCE. use caution site high in TCE. unp in case of HDSP in
LC34-DPT0937-025.0-20230926 (670-27487-34)	9/26/23	12:45 Eastern		Water			X	X	4	use caution site high in TCE use caution site high in TCE. unp in case of HDSP in
LC34-DPT0937-034.0-20230926 (670-27487-35)	9/26/23	13:05 Eastern		Water			X	X	4	use caution site high in TCE. use caution site high in TCE. unp in case of HDSP in
LC34-DPT0937-038.0-20230926 (670-27487-36)	9/26/23	13:25 Eastern		Water			X	X	4	use caution site high in TCE. use caution site high in TCE. unp in case of HDSP in

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I II III, IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 9-27-23 1700	Company E-ORL	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: Jeremiah Baker	Date/Time: 9/28/2023 9:55	Company EX
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:

Ver 06/08/2021

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 670-27487-1

Login Number: 27487
List Number: 1
Creator: Lavardera, Angelina

List Source: Eurofins Orlando

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 670-27487-1

Login Number: 27487
List Number: 2
Creator: Baker, Jeremiah

List Source: Eurofins Houston
List Creation: 09/28/23 10:39 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Mark Jonnet
Tetra Tech, Inc.
Foster Plaza 7
661 Anderson Drive
Suite 200
Pittsburgh, Pennsylvania 15220-2745

Generated 10/6/2023 4:29:04 PM

JOB DESCRIPTION

NASA KSC LC34 DPT
SDG NUMBER 670-27576-1

JOB NUMBER

670-27576-1

Eurofins Orlando
481 Newburyport Avenue
Altamonte Springs FL 32701

See page two for job notes and contact information.

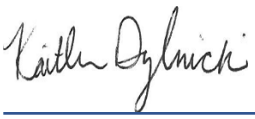
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Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization



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10/6/2023 4:29:04 PM

Authorized for release by
Kaitlin Dylnicki, Project Manager
kaitlin.dylnicki@et.eurofinsus.com
(407)339-5984

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Definitions/Glossary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27576-1
SDG: 670-27576-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U	Indicates that the compound was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27576-1
SDG: 670-27576-1

Job ID: 670-27576-1

Laboratory: Eurofins Orlando

Narrative

Job Narrative
Client: Tetra Tech
Client PM: Mark Jonnet
Project: NASA KSC LC34
Project Number: 112G08985
670-27576-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 9/28/2023 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.5°C and 1.2°C

GC/MS VOA
Method 8260D: The following samples were diluted to bring the concentration of target analytes within the calibration range: LC34-DPT0938-018.0-20230926 (670-27576-3), LC34-DPT09380-025.0-20230926 (670-27576-4), LC34-DPT0939-008.0-20230926 (670-27576-7), LC34-DPT0939-013.0-20230926 (670-27576-8), LC34-DPT0939-018.0-20230926 (670-27576-9), LC34-DPT0939-025.0-20230926 (670-27576-10), LC34-DPT0939-034.0-20230926 (670-27576-11) and LC34-DPT0941-013.0-20230927 (670-27576-20). Elevated reporting limits (RLs) are provided.

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-800695.

Method 8260D: The continuing calibration verification (CCV) associated with batch 680-800707 recovered above the upper control limit for 1,1-Dichloroethene and Trichlorofluoromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260D: The continuing calibration verification (CCV) associated with batch 680-800707 recovered outside acceptance criteria, low biased, for Methyl acetate. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

Method 8260D: The following samples were diluted to bring the concentration of target analytes within the calibration range: LC34-DPT0941-018.0-20230927 (670-27576-21), LC34-DPT0941-025.0-20230927 (670-27576-22) and LC34-DPT0942-025.0-20230927 (670-27576-28). Elevated reporting limits (RLs) are provided.

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-800707.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27576-1
SDG: 670-27576-1

Client Sample ID: LC34-DPT0938-008.0-20230926 — Lab Sample ID: 670-27576-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.51	I	2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	38		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	45		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0938-013.0-20230926 — Lab Sample ID: 670-27576-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.59	I	2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	24		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	38		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0938-018.0-20230926 — Lab Sample ID: 670-27576-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	90		5.0	1.3	ug/L	5		8260D	Total/NA
trans-1,2-Dichloroethene	1.9	I	5.0	1.7	ug/L	5		8260D	Total/NA
Vinyl chloride	620		5.0	2.0	ug/L	5		8260D	Total/NA

Client Sample ID: LC34-DPT09380-025.0-20230926 — Lab Sample ID: 670-27576-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	15	I	50	13	ug/L	50		8260D	Total/NA
trans-1,2-Dichloroethene	25	I	50	17	ug/L	50		8260D	Total/NA
Vinyl chloride	4800		50	20	ug/L	50		8260D	Total/NA

Client Sample ID: LC34-DPT0938-034.0-20230926 — Lab Sample ID: 670-27576-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	1.5	I	2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	22		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	33		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0938-038.0-20230926 — Lab Sample ID: 670-27576-6

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	1.1	I	2.0	0.43	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0939-008.0-20230926 — Lab Sample ID: 670-27576-7

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	390		10	2.5	ug/L	10		8260D	Total/NA
Vinyl chloride	1200		10	4.0	ug/L	10		8260D	Total/NA

Client Sample ID: LC34-DPT0939-013.0-20230926 — Lab Sample ID: 670-27576-8

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	260		5.0	1.3	ug/L	5		8260D	Total/NA
Vinyl chloride	570		5.0	2.0	ug/L	5		8260D	Total/NA

Client Sample ID: LC34-DPT0939-018.0-20230926 — Lab Sample ID: 670-27576-9

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1200		10	2.5	ug/L	10		8260D	Total/NA
trans-1,2-Dichloroethene	34		10	3.4	ug/L	10		8260D	Total/NA
Vinyl chloride	900		10	4.0	ug/L	10		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27576-1
SDG: 670-27576-1

Client Sample ID: LC34-DPT0939-025.0-20230926 — Lab Sample ID: 670-27576-10

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	32		20	5.0	ug/L	20		8260D	Total/NA
trans-1,2-Dichloroethene	110		20	6.8	ug/L	20		8260D	Total/NA
Vinyl chloride	3700		20	8.0	ug/L	20		8260D	Total/NA

Client Sample ID: LC34-DPT0939-034.0-20230926 — Lab Sample ID: 670-27576-11

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	2.1	I	4.0	0.86	ug/L	2		8260D	Total/NA
cis-1,2-Dichloroethene	20		2.0	0.50	ug/L	2		8260D	Total/NA
trans-1,2-Dichloroethene	3.2		2.0	0.68	ug/L	2		8260D	Total/NA
Vinyl chloride	180		2.0	0.80	ug/L	2		8260D	Total/NA

Client Sample ID: LC34-DPT0939-038.0-20230926 — Lab Sample ID: 670-27576-12

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	1.9	I	2.0	0.43	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0940-008.0-20230927 — Lab Sample ID: 670-27576-13

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.49	I	2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.72	I	1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	2.0		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0940-013.0-20230927 — Lab Sample ID: 670-27576-14

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.55	I	2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	1.3		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	4.9		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0940-018.0-20230927 — Lab Sample ID: 670-27576-15

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.71	I	2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	2.4		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	3.5		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0940-025.0-20230927 — Lab Sample ID: 670-27576-16

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	1.4	I	2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	5.7		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	4.1		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0940-034.0-20230927 — Lab Sample ID: 670-27576-17

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.78	I	2.0	0.43	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0940-038.0-20230927 — Lab Sample ID: 670-27576-18

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	1.3	I	2.0	0.43	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Orlando

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27576-1
SDG: 670-27576-1

Client Sample ID: LC34-DPT0941-008.0-20230927 — Lab Sample ID: 670-27576-19

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.52	I	2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	9.5		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	13		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0941-013.0-20230927 — Lab Sample ID: 670-27576-20

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	7.1		2.0	0.50	ug/L	2		8260D	Total/NA
Vinyl chloride	290		2.0	0.80	ug/L	2		8260D	Total/NA

Client Sample ID: LC34-DPT0941-018.0-20230927 — Lab Sample ID: 670-27576-21

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
trans-1,2-Dichloroethene	4.3	I	10	3.4	ug/L	10		8260D	Total/NA
Vinyl chloride	1100		10	4.0	ug/L	10		8260D	Total/NA

Client Sample ID: LC34-DPT0941-025.0-20230927 — Lab Sample ID: 670-27576-22

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	1000		10	4.0	ug/L	10		8260D	Total/NA

Client Sample ID: LC34-DPT0941-034.0-20230927 — Lab Sample ID: 670-27576-23

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.87	I	2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	2.5		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	1.8		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0941-038.0-20230927 — Lab Sample ID: 670-27576-24

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.81	I	2.0	0.43	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0942-008.0-20230927 — Lab Sample ID: 670-27576-25

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.50	I	2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	8.2		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	13		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0942-013.0-20230927 — Lab Sample ID: 670-27576-26

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	13		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	24		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0942-018.0-20230927 — Lab Sample ID: 670-27576-27

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	11		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	16		1.0	0.40	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27576-1
SDG: 670-27576-1

Client Sample ID: LC34-DPT0942-025.0-20230927 — Lab Sample ID: 670-27576-28

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
trans-1,2-Dichloroethene	93		20	6.8	ug/L	20		8260D	Total/NA
Vinyl chloride	1200		20	8.0	ug/L	20		8260D	Total/NA

Client Sample ID: LC34-DPT0942-034.0-20230927 — Lab Sample ID: 670-27576-29

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	1.1	I	2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	2.9		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	16		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0942-038.0-20230927 — Lab Sample ID: 670-27576-30

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	1.6	I	2.0	0.43	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27576-1
SDG: 670-27576-1

Client Sample ID: LC34-DPT0938-008.0-20230926
Date Collected: 09/26/23 14:10
Date Received: 09/28/23 08:00

Lab Sample ID: 670-27576-1
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/02/23 21:22	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/02/23 21:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/02/23 21:22	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/02/23 21:22	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/02/23 21:22	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/02/23 21:22	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/02/23 21:22	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/02/23 21:22	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/02/23 21:22	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/02/23 21:22	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/02/23 21:22	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/02/23 21:22	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/02/23 21:22	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/02/23 21:22	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/02/23 21:22	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/02/23 21:22	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/02/23 21:22	1
Acetone	3.7	U	10	3.7	ug/L			10/02/23 21:22	1
Benzene	0.27	U	1.0	0.27	ug/L			10/02/23 21:22	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/02/23 21:22	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/02/23 21:22	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/02/23 21:22	1
Carbon disulfide	**0.51**	**I**	2.0	0.43	ug/L			10/02/23 21:22	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/02/23 21:22	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/02/23 21:22	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/02/23 21:22	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/02/23 21:22	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/02/23 21:22	1
cis-1,2-Dichloroethene	**38**		1.0	0.25	ug/L			10/02/23 21:22	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/02/23 21:22	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/02/23 21:22	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/02/23 21:22	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/02/23 21:22	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/02/23 21:22	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/02/23 21:22	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/02/23 21:22	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/02/23 21:22	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/02/23 21:22	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/02/23 21:22	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/02/23 21:22	1
Styrene	0.27	U	1.0	0.27	ug/L			10/02/23 21:22	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/02/23 21:22	1
Toluene	0.25	U	1.0	0.25	ug/L			10/02/23 21:22	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/02/23 21:22	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/02/23 21:22	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/02/23 21:22	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/02/23 21:22	1
Vinyl chloride	**45**		1.0	0.40	ug/L			10/02/23 21:22	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/02/23 21:22	1

Client Sample ID: LC34-DPT0938-008.0-20230926

Lab Sample ID: 670-27576-1

Date Collected: 09/26/23 14:10
Matrix: Water
Date Received: 09/28/23 08:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*		*10/02/23 21:22*	*1*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*10/02/23 21:22*	*1*
Dibromofluoromethane (Surr)	*113*		*70 - 130*		*10/02/23 21:22*	*1*
Toluene-d8 (Surr)	*124*		*70 - 130*		*10/02/23 21:22*	*1*

Client Sample ID: LC34-DPT0938-013.0-20230926

Lab Sample ID: 670-27576-2

Date Collected: 09/26/23 14:30
Matrix: Water
Date Received: 09/28/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/02/23 21:42	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/02/23 21:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/02/23 21:42	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/02/23 21:42	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/02/23 21:42	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/02/23 21:42	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/02/23 21:42	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/02/23 21:42	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/02/23 21:42	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/02/23 21:42	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/02/23 21:42	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/02/23 21:42	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/02/23 21:42	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/02/23 21:42	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/02/23 21:42	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/02/23 21:42	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/02/23 21:42	1
Acetone	3.7	U	10	3.7	ug/L			10/02/23 21:42	1
Benzene	0.27	U	1.0	0.27	ug/L			10/02/23 21:42	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/02/23 21:42	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/02/23 21:42	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/02/23 21:42	1
Carbon disulfide	**0.59**	**I**	2.0	0.43	ug/L			10/02/23 21:42	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/02/23 21:42	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/02/23 21:42	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/02/23 21:42	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/02/23 21:42	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/02/23 21:42	1
cis-1,2-Dichloroethene	**24**		1.0	0.25	ug/L			10/02/23 21:42	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/02/23 21:42	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/02/23 21:42	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/02/23 21:42	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/02/23 21:42	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/02/23 21:42	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/02/23 21:42	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/02/23 21:42	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/02/23 21:42	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/02/23 21:42	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/02/23 21:42	1

Client Sample ID: LC34-DPT0938-013.0-20230926 **Lab Sample ID: 670-27576-2**
Date Collected: 09/26/23 14:30 **Matrix: Water**
Date Received: 09/28/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	0.26	U	1.0	0.26	ug/L			10/02/23 21:42	1
Styrene	0.27	U	1.0	0.27	ug/L			10/02/23 21:42	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/02/23 21:42	1
Toluene	0.25	U	1.0	0.25	ug/L			10/02/23 21:42	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/02/23 21:42	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/02/23 21:42	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/02/23 21:42	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/02/23 21:42	1
Vinyl chloride	**38**		1.0	0.40	ug/L			10/02/23 21:42	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/02/23 21:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 124*		*10/02/23 21:42*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*10/02/23 21:42*	*1*
Dibromofluoromethane (Surr)	*112*		*70 - 130*		*10/02/23 21:42*	*1*
Toluene-d8 (Surr)	*127*		*70 - 130*		*10/02/23 21:42*	*1*

Client Sample ID: LC34-DPT0938-018.0-20230926 **Lab Sample ID: 670-27576-3**
Date Collected: 09/26/23 14:45 **Matrix: Water**
Date Received: 09/28/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	5.0	1.1	ug/L			10/03/23 01:21	5
1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	ug/L			10/03/23 01:21	5
1,1,2-Trichloro-1,2,2-trifluoroethane	1.2	U	5.0	1.2	ug/L			10/03/23 01:21	5
1,1,2-Trichloroethane	1.6	U	5.0	1.6	ug/L			10/03/23 01:21	5
1,1-Dichloroethane	1.7	U	5.0	1.7	ug/L			10/03/23 01:21	5
1,1-Dichloroethene	1.7	U	5.0	1.7	ug/L			10/03/23 01:21	5
1,2,4-Trichlorobenzene	2.7	U	25	2.7	ug/L			10/03/23 01:21	5
1,2-Dibromo-3-Chloropropane	9.0	U	25	9.0	ug/L			10/03/23 01:21	5
1,2-Dibromoethane (EDB)	1.7	U	5.0	1.7	ug/L			10/03/23 01:21	5
1,2-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/03/23 01:21	5
1,2-Dichloroethane	1.3	U	5.0	1.3	ug/L			10/03/23 01:21	5
1,2-Dichloropropane	1.1	U	5.0	1.1	ug/L			10/03/23 01:21	5
1,3-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/03/23 01:21	5
1,4-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/03/23 01:21	5
2-Butanone (MEK)	32	U	50	32	ug/L			10/03/23 01:21	5
2-Hexanone	16	U	50	16	ug/L			10/03/23 01:21	5
4-Methyl-2-pentanone	14	U	50	14	ug/L			10/03/23 01:21	5
Acetone	19	U	50	19	ug/L			10/03/23 01:21	5
Benzene	1.4	U	5.0	1.4	ug/L			10/03/23 01:21	5
Bromodichloromethane	1.3	U	5.0	1.3	ug/L			10/03/23 01:21	5
Bromoform	3.0	U	5.0	3.0	ug/L			10/03/23 01:21	5
Bromomethane	19	U	25	19	ug/L			10/03/23 01:21	5
Carbon disulfide	2.2	U	10	2.2	ug/L			10/03/23 01:21	5
Carbon tetrachloride	1.5	U	5.0	1.5	ug/L			10/03/23 01:21	5
Chlorobenzene	0.75	U	5.0	0.75	ug/L			10/03/23 01:21	5
Chloroethane	23	U	25	23	ug/L			10/03/23 01:21	5
Chloroform	1.4	U	5.0	1.4	ug/L			10/03/23 01:21	5

Client Sample ID: LC34-DPT0938-018.0-20230926

Lab Sample ID: 670-27576-3

Date Collected: 09/26/23 14:45
Matrix: Water
Date Received: 09/28/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	2.7	U	5.0	2.7	ug/L			10/03/23 01:21	5
cis-1,2-Dichloroethene	**90**		5.0	1.3	ug/L			10/03/23 01:21	5
cis-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			10/03/23 01:21	5
Cyclohexane	1.4	U	5.0	1.4	ug/L			10/03/23 01:21	5
Dibromochloromethane	2.0	U	5.0	2.0	ug/L			10/03/23 01:21	5
Dichlorodifluoromethane	1.8	U	5.0	1.8	ug/L			10/03/23 01:21	5
Ethylbenzene	1.0	U	5.0	1.0	ug/L			10/03/23 01:21	5
Isopropylbenzene	1.3	U	5.0	1.3	ug/L			10/03/23 01:21	5
m,p-Xylenes	2.5	U	5.0	2.5	ug/L			10/03/23 01:21	5
Methyl acetate	16	U	25	16	ug/L			10/03/23 01:21	5
Methyl tert-butyl ether	4.1	U	25	4.1	ug/L			10/03/23 01:21	5
Methylene Chloride	16	U	25	16	ug/L			10/03/23 01:21	5
o-Xylene	1.3	U	5.0	1.3	ug/L			10/03/23 01:21	5
Styrene	1.4	U	5.0	1.4	ug/L			10/03/23 01:21	5
Tetrachloroethene	1.8	U	5.0	1.8	ug/L			10/03/23 01:21	5
Toluene	1.3	U	5.0	1.3	ug/L			10/03/23 01:21	5
trans-1,2-Dichloroethene	**1.9**	**I**	5.0	1.7	ug/L			10/03/23 01:21	5
trans-1,3-Dichloropropene	1.2	U	5.0	1.2	ug/L			10/03/23 01:21	5
Trichloroethene	1.0	U	5.0	1.0	ug/L			10/03/23 01:21	5
Trichlorofluoromethane	1.7	U	5.0	1.7	ug/L			10/03/23 01:21	5
Vinyl chloride	**620**		5.0	2.0	ug/L			10/03/23 01:21	5
Xylenes, Total	1.2	U	5.0	1.2	ug/L			10/03/23 01:21	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 124*		*10/03/23 01:21*	*5*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*10/03/23 01:21*	*5*
Dibromofluoromethane (Surr)	*113*		*70 - 130*		*10/03/23 01:21*	*5*
Toluene-d8 (Surr)	*123*		*70 - 130*		*10/03/23 01:21*	*5*

Client Sample ID: LC34-DPT09380-025.0-20230926

Lab Sample ID: 670-27576-4

Date Collected: 09/26/23 15:00
Matrix: Water
Date Received: 09/28/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	11	U	50	11	ug/L			10/03/23 01:41	50
1,1,2,2-Tetrachloroethane	20	U	50	20	ug/L			10/03/23 01:41	50
1,1,2-Trichloro-1,2,2-trifluoroethane	12	U	50	12	ug/L			10/03/23 01:41	50
1,1,2-Trichloroethane	16	U	50	16	ug/L			10/03/23 01:41	50
1,1-Dichloroethane	17	U	50	17	ug/L			10/03/23 01:41	50
1,1-Dichloroethene	17	U	50	17	ug/L			10/03/23 01:41	50
1,2,4-Trichlorobenzene	27	U	250	27	ug/L			10/03/23 01:41	50
1,2-Dibromo-3-Chloropropane	90	U	250	90	ug/L			10/03/23 01:41	50
1,2-Dibromoethane (EDB)	17	U	50	17	ug/L			10/03/23 01:41	50
1,2-Dichlorobenzene	16	U	50	16	ug/L			10/03/23 01:41	50
1,2-Dichloroethane	13	U	50	13	ug/L			10/03/23 01:41	50
1,2-Dichloropropane	11	U	50	11	ug/L			10/03/23 01:41	50
1,3-Dichlorobenzene	16	U	50	16	ug/L			10/03/23 01:41	50
1,4-Dichlorobenzene	16	U	50	16	ug/L			10/03/23 01:41	50
2-Butanone (MEK)	320	U	500	320	ug/L			10/03/23 01:41	50

Client Sample ID: LC34-DPT09380-025.0-20230926

Lab Sample ID: 670-27576-4

Date Collected: 09/26/23 15:00
Matrix: Water
Date Received: 09/28/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	160	U	500	160	ug/L			10/03/23 01:41	50
4-Methyl-2-pentanone	140	U	500	140	ug/L			10/03/23 01:41	50
Acetone	190	U	500	190	ug/L			10/03/23 01:41	50
Benzene	14	U	50	14	ug/L			10/03/23 01:41	50
Bromodichloromethane	13	U	50	13	ug/L			10/03/23 01:41	50
Bromoform	30	U	50	30	ug/L			10/03/23 01:41	50
Bromomethane	190	U	250	190	ug/L			10/03/23 01:41	50
Carbon disulfide	22	U	100	22	ug/L			10/03/23 01:41	50
Carbon tetrachloride	15	U	50	15	ug/L			10/03/23 01:41	50
Chlorobenzene	7.5	U	50	7.5	ug/L			10/03/23 01:41	50
Chloroethane	230	U	250	230	ug/L			10/03/23 01:41	50
Chloroform	14	U	50	14	ug/L			10/03/23 01:41	50
Chloromethane	27	U	50	27	ug/L			10/03/23 01:41	50
cis-1,2-Dichloroethene	**15**	**I**	50	13	ug/L			10/03/23 01:41	50
cis-1,3-Dichloropropene	13	U	50	13	ug/L			10/03/23 01:41	50
Cyclohexane	14	U	50	14	ug/L			10/03/23 01:41	50
Dibromochloromethane	20	U	50	20	ug/L			10/03/23 01:41	50
Dichlorodifluoromethane	18	U	50	18	ug/L			10/03/23 01:41	50
Ethylbenzene	10	U	50	10	ug/L			10/03/23 01:41	50
Isopropylbenzene	13	U	50	13	ug/L			10/03/23 01:41	50
m,p-Xylenes	25	U	50	25	ug/L			10/03/23 01:41	50
Methyl acetate	160	U	250	160	ug/L			10/03/23 01:41	50
Methyl tert-butyl ether	41	U	250	41	ug/L			10/03/23 01:41	50
Methylene Chloride	160	U	250	160	ug/L			10/03/23 01:41	50
o-Xylene	13	U	50	13	ug/L			10/03/23 01:41	50
Styrene	14	U	50	14	ug/L			10/03/23 01:41	50
Tetrachloroethene	18	U	50	18	ug/L			10/03/23 01:41	50
Toluene	13	U	50	13	ug/L			10/03/23 01:41	50
trans-1,2-Dichloroethene	**25**	**I**	50	17	ug/L			10/03/23 01:41	50
trans-1,3-Dichloropropene	12	U	50	12	ug/L			10/03/23 01:41	50
Trichloroethene	10	U	50	10	ug/L			10/03/23 01:41	50
Trichlorofluoromethane	17	U	50	17	ug/L			10/03/23 01:41	50
Vinyl chloride	**4800**		50	20	ug/L			10/03/23 01:41	50
Xylenes, Total	12	U	50	12	ug/L			10/03/23 01:41	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 124*		*10/03/23 01:41*	*50*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*10/03/23 01:41*	*50*
Dibromofluoromethane (Surr)	*114*		*70 - 130*		*10/03/23 01:41*	*50*
Toluene-d8 (Surr)	*123*		*70 - 130*		*10/03/23 01:41*	*50*

Client Sample ID: LC34-DPT0938-034.0-20230926

Lab Sample ID: 670-27576-5

Date Collected: 09/26/23 15:15
Matrix: Water
Date Received: 09/28/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/02/23 22:02	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/02/23 22:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/02/23 22:02	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27576-1
SDG: 670-27576-1

Client Sample ID: LC34-DPT0938-034.0-20230926
Date Collected: 09/26/23 15:15
Date Received: 09/28/23 08:00

Lab Sample ID: 670-27576-5
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/02/23 22:02	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/02/23 22:02	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/02/23 22:02	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/02/23 22:02	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/02/23 22:02	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/02/23 22:02	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/02/23 22:02	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/02/23 22:02	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/02/23 22:02	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/02/23 22:02	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/02/23 22:02	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/02/23 22:02	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/02/23 22:02	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/02/23 22:02	1
Acetone	3.7	U	10	3.7	ug/L			10/02/23 22:02	1
Benzene	0.27	U	1.0	0.27	ug/L			10/02/23 22:02	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/02/23 22:02	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/02/23 22:02	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/02/23 22:02	1
Carbon disulfide	**1.5**	**I**	2.0	0.43	ug/L			10/02/23 22:02	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/02/23 22:02	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/02/23 22:02	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/02/23 22:02	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/02/23 22:02	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/02/23 22:02	1
cis-1,2-Dichloroethene	**22**		1.0	0.25	ug/L			10/02/23 22:02	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/02/23 22:02	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/02/23 22:02	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/02/23 22:02	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/02/23 22:02	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/02/23 22:02	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/02/23 22:02	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/02/23 22:02	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/02/23 22:02	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/02/23 22:02	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/02/23 22:02	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/02/23 22:02	1
Styrene	0.27	U	1.0	0.27	ug/L			10/02/23 22:02	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/02/23 22:02	1
Toluene	0.25	U	1.0	0.25	ug/L			10/02/23 22:02	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/02/23 22:02	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/02/23 22:02	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/02/23 22:02	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/02/23 22:02	1
Vinyl chloride	**33**		1.0	0.40	ug/L			10/02/23 22:02	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/02/23 22:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*60 - 124*		*10/02/23 22:02*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/02/23 22:02*	*1*

Client Sample ID: LC34-DPT0938-034.0-20230926

Lab Sample ID: 670-27576-5

Date Collected: 09/26/23 15:15
Matrix: Water
Date Received: 09/28/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*111*		*70 - 130*		*10/02/23 22:02*	*1*
Toluene-d8 (Surr)	*126*		*70 - 130*		*10/02/23 22:02*	*1*

Client Sample ID: LC34-DPT0938-038.0-20230926

Lab Sample ID: 670-27576-6

Date Collected: 09/26/23 15:35
Matrix: Water
Date Received: 09/28/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/02/23 22:22	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/02/23 22:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/02/23 22:22	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/02/23 22:22	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/02/23 22:22	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/02/23 22:22	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/02/23 22:22	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/02/23 22:22	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/02/23 22:22	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/02/23 22:22	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/02/23 22:22	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/02/23 22:22	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/02/23 22:22	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/02/23 22:22	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/02/23 22:22	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/02/23 22:22	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/02/23 22:22	1
Acetone	3.7	U	10	3.7	ug/L			10/02/23 22:22	1
Benzene	0.27	U	1.0	0.27	ug/L			10/02/23 22:22	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/02/23 22:22	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/02/23 22:22	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/02/23 22:22	1
Carbon disulfide	**1.1**	**I**	2.0	0.43	ug/L			10/02/23 22:22	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/02/23 22:22	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/02/23 22:22	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/02/23 22:22	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/02/23 22:22	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/02/23 22:22	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/02/23 22:22	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/02/23 22:22	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/02/23 22:22	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/02/23 22:22	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/02/23 22:22	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/02/23 22:22	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/02/23 22:22	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/02/23 22:22	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/02/23 22:22	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/02/23 22:22	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/02/23 22:22	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/02/23 22:22	1

Client Sample ID: LC34-DPT0938-038.0-20230926

Lab Sample ID: 670-27576-6

Date Collected: 09/26/23 15:35
Matrix: Water
Date Received: 09/28/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.27	U	1.0	0.27	ug/L			10/02/23 22:22	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/02/23 22:22	1
Toluene	0.25	U	1.0	0.25	ug/L			10/02/23 22:22	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/02/23 22:22	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/02/23 22:22	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/02/23 22:22	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/02/23 22:22	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/02/23 22:22	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/02/23 22:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 124*		*10/02/23 22:22*	*1*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*10/02/23 22:22*	*1*
Dibromofluoromethane (Surr)	*115*		*70 - 130*		*10/02/23 22:22*	*1*
Toluene-d8 (Surr)	*128*		*70 - 130*		*10/02/23 22:22*	*1*

Client Sample ID: LC34-DPT0939-008.0-20230926

Lab Sample ID: 670-27576-7

Date Collected: 09/26/23 16:10
Matrix: Water
Date Received: 09/28/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2.1	U	10	2.1	ug/L			10/03/23 02:01	10
1,1,2,2-Tetrachloroethane	4.0	U	10	4.0	ug/L			10/03/23 02:01	10
1,1,2-Trichloro-1,2,2-trifluoroethane	2.3	U	10	2.3	ug/L			10/03/23 02:01	10
1,1,2-Trichloroethane	3.2	U	10	3.2	ug/L			10/03/23 02:01	10
1,1-Dichloroethane	3.3	U	10	3.3	ug/L			10/03/23 02:01	10
1,1-Dichloroethene	3.3	U	10	3.3	ug/L			10/03/23 02:01	10
1,2,4-Trichlorobenzene	5.3	U	50	5.3	ug/L			10/03/23 02:01	10
1,2-Dibromo-3-Chloropropane	18	U	50	18	ug/L			10/03/23 02:01	10
1,2-Dibromoethane (EDB)	3.3	U	10	3.3	ug/L			10/03/23 02:01	10
1,2-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/03/23 02:01	10
1,2-Dichloroethane	2.5	U	10	2.5	ug/L			10/03/23 02:01	10
1,2-Dichloropropane	2.2	U	10	2.2	ug/L			10/03/23 02:01	10
1,3-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/03/23 02:01	10
1,4-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/03/23 02:01	10
2-Butanone (MEK)	64	U	100	64	ug/L			10/03/23 02:01	10
2-Hexanone	32	U	100	32	ug/L			10/03/23 02:01	10
4-Methyl-2-pentanone	27	U	100	27	ug/L			10/03/23 02:01	10
Acetone	37	U	100	37	ug/L			10/03/23 02:01	10
Benzene	2.7	U	10	2.7	ug/L			10/03/23 02:01	10
Bromodichloromethane	2.5	U	10	2.5	ug/L			10/03/23 02:01	10
Bromoform	5.9	U	10	5.9	ug/L			10/03/23 02:01	10
Bromomethane	37	U	50	37	ug/L			10/03/23 02:01	10
Carbon disulfide	4.3	U	20	4.3	ug/L			10/03/23 02:01	10
Carbon tetrachloride	3.0	U	10	3.0	ug/L			10/03/23 02:01	10
Chlorobenzene	1.5	U	10	1.5	ug/L			10/03/23 02:01	10
Chloroethane	46	U	50	46	ug/L			10/03/23 02:01	10
Chloroform	2.7	U	10	2.7	ug/L			10/03/23 02:01	10
Chloromethane	5.4	U	10	5.4	ug/L			10/03/23 02:01	10

Client Sample ID: LC34-DPT0939-008.0-20230926 **Lab Sample ID: 670-27576-7**
Date Collected: 09/26/23 16:10 **Matrix: Water**
Date Received: 09/28/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	390		10	2.5	ug/L			10/03/23 02:01	10
cis-1,3-Dichloropropene	2.6	U	10	2.6	ug/L			10/03/23 02:01	10
Cyclohexane	2.8	U	10	2.8	ug/L			10/03/23 02:01	10
Dibromochloromethane	3.9	U	10	3.9	ug/L			10/03/23 02:01	10
Dichlorodifluoromethane	3.6	U	10	3.6	ug/L			10/03/23 02:01	10
Ethylbenzene	2.0	U	10	2.0	ug/L			10/03/23 02:01	10
Isopropylbenzene	2.6	U	10	2.6	ug/L			10/03/23 02:01	10
m,p-Xylenes	4.9	U	10	4.9	ug/L			10/03/23 02:01	10
Methyl acetate	32	U	50	32	ug/L			10/03/23 02:01	10
Methyl tert-butyl ether	8.1	U	50	8.1	ug/L			10/03/23 02:01	10
Methylene Chloride	32	U	50	32	ug/L			10/03/23 02:01	10
o-Xylene	2.6	U	10	2.6	ug/L			10/03/23 02:01	10
Styrene	2.7	U	10	2.7	ug/L			10/03/23 02:01	10
Tetrachloroethene	3.5	U	10	3.5	ug/L			10/03/23 02:01	10
Toluene	2.5	U	10	2.5	ug/L			10/03/23 02:01	10
trans-1,2-Dichloroethene	3.4	U	10	3.4	ug/L			10/03/23 02:01	10
trans-1,3-Dichloropropene	2.3	U	10	2.3	ug/L			10/03/23 02:01	10
Trichloroethene	2.0	U	10	2.0	ug/L			10/03/23 02:01	10
Trichlorofluoromethane	3.3	U	10	3.3	ug/L			10/03/23 02:01	10
Vinyl chloride	1200		10	4.0	ug/L			10/03/23 02:01	10
Xylenes, Total	2.3	U	10	2.3	ug/L			10/03/23 02:01	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 124*		*10/03/23 02:01*	*10*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*10/03/23 02:01*	*10*
Dibromofluoromethane (Surr)	*112*		*70 - 130*		*10/03/23 02:01*	*10*
Toluene-d8 (Surr)	*125*		*70 - 130*		*10/03/23 02:01*	*10*

Client Sample ID: LC34-DPT0939-013.0-20230926 **Lab Sample ID: 670-27576-8**
Date Collected: 09/26/23 16:20 **Matrix: Water**
Date Received: 09/28/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	5.0	1.1	ug/L			10/03/23 02:21	5
1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	ug/L			10/03/23 02:21	5
1,1,2-Trichloro-1,2,2-trifluoroethane	1.2	U	5.0	1.2	ug/L			10/03/23 02:21	5
1,1,2-Trichloroethane	1.6	U	5.0	1.6	ug/L			10/03/23 02:21	5
1,1-Dichloroethane	1.7	U	5.0	1.7	ug/L			10/03/23 02:21	5
1,1-Dichloroethene	1.7	U	5.0	1.7	ug/L			10/03/23 02:21	5
1,2,4-Trichlorobenzene	2.7	U	25	2.7	ug/L			10/03/23 02:21	5
1,2-Dibromo-3-Chloropropane	9.0	U	25	9.0	ug/L			10/03/23 02:21	5
1,2-Dibromoethane (EDB)	1.7	U	5.0	1.7	ug/L			10/03/23 02:21	5
1,2-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/03/23 02:21	5
1,2-Dichloroethane	1.3	U	5.0	1.3	ug/L			10/03/23 02:21	5
1,2-Dichloropropane	1.1	U	5.0	1.1	ug/L			10/03/23 02:21	5
1,3-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/03/23 02:21	5
1,4-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/03/23 02:21	5
2-Butanone (MEK)	32	U	50	32	ug/L			10/03/23 02:21	5
2-Hexanone	16	U	50	16	ug/L			10/03/23 02:21	5

Client Sample ID: LC34-DPT0939-013.0-20230926

Lab Sample ID: 670-27576-8

Date Collected: 09/26/23 16:20

Matrix: Water

Date Received: 09/28/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone	14	U	50	14	ug/L			10/03/23 02:21	5
Acetone	19	U	50	19	ug/L			10/03/23 02:21	5
Benzene	1.4	U	5.0	1.4	ug/L			10/03/23 02:21	5
Bromodichloromethane	1.3	U	5.0	1.3	ug/L			10/03/23 02:21	5
Bromoform	3.0	U	5.0	3.0	ug/L			10/03/23 02:21	5
Bromomethane	19	U	25	19	ug/L			10/03/23 02:21	5
Carbon disulfide	2.2	U	10	2.2	ug/L			10/03/23 02:21	5
Carbon tetrachloride	1.5	U	5.0	1.5	ug/L			10/03/23 02:21	5
Chlorobenzene	0.75	U	5.0	0.75	ug/L			10/03/23 02:21	5
Chloroethane	23	U	25	23	ug/L			10/03/23 02:21	5
Chloroform	1.4	U	5.0	1.4	ug/L			10/03/23 02:21	5
Chloromethane	2.7	U	5.0	2.7	ug/L			10/03/23 02:21	5
cis-1,2-Dichloroethene	**260**		5.0	1.3	ug/L			10/03/23 02:21	5
cis-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			10/03/23 02:21	5
Cyclohexane	1.4	U	5.0	1.4	ug/L			10/03/23 02:21	5
Dibromochloromethane	2.0	U	5.0	2.0	ug/L			10/03/23 02:21	5
Dichlorodifluoromethane	1.8	U	5.0	1.8	ug/L			10/03/23 02:21	5
Ethylbenzene	1.0	U	5.0	1.0	ug/L			10/03/23 02:21	5
Isopropylbenzene	1.3	U	5.0	1.3	ug/L			10/03/23 02:21	5
m,p-Xylenes	2.5	U	5.0	2.5	ug/L			10/03/23 02:21	5
Methyl acetate	16	U	25	16	ug/L			10/03/23 02:21	5
Methyl tert-butyl ether	4.1	U	25	4.1	ug/L			10/03/23 02:21	5
Methylene Chloride	16	U	25	16	ug/L			10/03/23 02:21	5
o-Xylene	1.3	U	5.0	1.3	ug/L			10/03/23 02:21	5
Styrene	1.4	U	5.0	1.4	ug/L			10/03/23 02:21	5
Tetrachloroethene	1.8	U	5.0	1.8	ug/L			10/03/23 02:21	5
Toluene	1.3	U	5.0	1.3	ug/L			10/03/23 02:21	5
trans-1,2-Dichloroethene	1.7	U	5.0	1.7	ug/L			10/03/23 02:21	5
trans-1,3-Dichloropropene	1.2	U	5.0	1.2	ug/L			10/03/23 02:21	5
Trichloroethene	1.0	U	5.0	1.0	ug/L			10/03/23 02:21	5
Trichlorofluoromethane	1.7	U	5.0	1.7	ug/L			10/03/23 02:21	5
Vinyl chloride	**570**		5.0	2.0	ug/L			10/03/23 02:21	5
Xylenes, Total	1.2	U	5.0	1.2	ug/L			10/03/23 02:21	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 124*		*10/03/23 02:21*	*5*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*10/03/23 02:21*	*5*
Dibromofluoromethane (Surr)	*113*		*70 - 130*		*10/03/23 02:21*	*5*
Toluene-d8 (Surr)	*122*		*70 - 130*		*10/03/23 02:21*	*5*

Client Sample ID: LC34-DPT0939-018.0-20230926

Lab Sample ID: 670-27576-9

Date Collected: 09/26/23 16:30

Matrix: Water

Date Received: 09/28/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2.1	U	10	2.1	ug/L			10/03/23 02:41	10
1,1,2,2-Tetrachloroethane	4.0	U	10	4.0	ug/L			10/03/23 02:41	10
1,1,2-Trichloro-1,2,2-trifluoroethane	2.3	U	10	2.3	ug/L			10/03/23 02:41	10
1,1,2-Trichloroethane	3.2	U	10	3.2	ug/L			10/03/23 02:41	10

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27576-1
SDG: 670-27576-1

Client Sample ID: LC34-DPT0939-018.0-20230926
Date Collected: 09/26/23 16:30
Date Received: 09/28/23 08:00

Lab Sample ID: 670-27576-9
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	3.3	U	10	3.3	ug/L			10/03/23 02:41	10
1,1-Dichloroethene	3.3	U	10	3.3	ug/L			10/03/23 02:41	10
1,2,4-Trichlorobenzene	5.3	U	50	5.3	ug/L			10/03/23 02:41	10
1,2-Dibromo-3-Chloropropane	18	U	50	18	ug/L			10/03/23 02:41	10
1,2-Dibromoethane (EDB)	3.3	U	10	3.3	ug/L			10/03/23 02:41	10
1,2-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/03/23 02:41	10
1,2-Dichloroethane	2.5	U	10	2.5	ug/L			10/03/23 02:41	10
1,2-Dichloropropane	2.2	U	10	2.2	ug/L			10/03/23 02:41	10
1,3-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/03/23 02:41	10
1,4-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/03/23 02:41	10
2-Butanone (MEK)	64	U	100	64	ug/L			10/03/23 02:41	10
2-Hexanone	32	U	100	32	ug/L			10/03/23 02:41	10
4-Methyl-2-pentanone	27	U	100	27	ug/L			10/03/23 02:41	10
Acetone	37	U	100	37	ug/L			10/03/23 02:41	10
Benzene	2.7	U	10	2.7	ug/L			10/03/23 02:41	10
Bromodichloromethane	2.5	U	10	2.5	ug/L			10/03/23 02:41	10
Bromoform	5.9	U	10	5.9	ug/L			10/03/23 02:41	10
Bromomethane	37	U	50	37	ug/L			10/03/23 02:41	10
Carbon disulfide	4.3	U	20	4.3	ug/L			10/03/23 02:41	10
Carbon tetrachloride	3.0	U	10	3.0	ug/L			10/03/23 02:41	10
Chlorobenzene	1.5	U	10	1.5	ug/L			10/03/23 02:41	10
Chloroethane	46	U	50	46	ug/L			10/03/23 02:41	10
Chloroform	2.7	U	10	2.7	ug/L			10/03/23 02:41	10
Chloromethane	5.4	U	10	5.4	ug/L			10/03/23 02:41	10
cis-1,2-Dichloroethene	**1200**		10	2.5	ug/L			10/03/23 02:41	10
cis-1,3-Dichloropropene	2.6	U	10	2.6	ug/L			10/03/23 02:41	10
Cyclohexane	2.8	U	10	2.8	ug/L			10/03/23 02:41	10
Dibromochloromethane	3.9	U	10	3.9	ug/L			10/03/23 02:41	10
Dichlorodifluoromethane	3.6	U	10	3.6	ug/L			10/03/23 02:41	10
Ethylbenzene	2.0	U	10	2.0	ug/L			10/03/23 02:41	10
Isopropylbenzene	2.6	U	10	2.6	ug/L			10/03/23 02:41	10
m,p-Xylenes	4.9	U	10	4.9	ug/L			10/03/23 02:41	10
Methyl acetate	32	U	50	32	ug/L			10/03/23 02:41	10
Methyl tert-butyl ether	8.1	U	50	8.1	ug/L			10/03/23 02:41	10
Methylene Chloride	32	U	50	32	ug/L			10/03/23 02:41	10
o-Xylene	2.6	U	10	2.6	ug/L			10/03/23 02:41	10
Styrene	2.7	U	10	2.7	ug/L			10/03/23 02:41	10
Tetrachloroethene	3.5	U	10	3.5	ug/L			10/03/23 02:41	10
Toluene	2.5	U	10	2.5	ug/L			10/03/23 02:41	10
trans-1,2-Dichloroethene	**34**		10	3.4	ug/L			10/03/23 02:41	10
trans-1,3-Dichloropropene	2.3	U	10	2.3	ug/L			10/03/23 02:41	10
Trichloroethene	2.0	U	10	2.0	ug/L			10/03/23 02:41	10
Trichlorofluoromethane	3.3	U	10	3.3	ug/L			10/03/23 02:41	10
Vinyl chloride	**900**		10	4.0	ug/L			10/03/23 02:41	10
Xylenes, Total	2.3	U	10	2.3	ug/L			10/03/23 02:41	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 124*		*10/03/23 02:41*	*10*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*10/03/23 02:41*	*10*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*10/03/23 02:41*	*10*

Client Sample ID: LC34-DPT0939-018.0-20230926 — **Lab Sample ID: 670-27576-9**
Date Collected: 09/26/23 16:30 — **Matrix: Water**
Date Received: 09/28/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*121*		*70 - 130*		*10/03/23 02:41*	*10*

Client Sample ID: LC34-DPT0939-025.0-20230926 — **Lab Sample ID: 670-27576-10**
Date Collected: 09/26/23 16:45 — **Matrix: Water**
Date Received: 09/28/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	4.2	U	20	4.2	ug/L			10/03/23 03:01	20
1,1,2,2-Tetrachloroethane	8.0	U	20	8.0	ug/L			10/03/23 03:01	20
1,1,2-Trichloro-1,2,2-trifluoroethane	4.6	U	20	4.6	ug/L			10/03/23 03:01	20
1,1,2-Trichloroethane	6.4	U	20	6.4	ug/L			10/03/23 03:01	20
1,1-Dichloroethane	6.6	U	20	6.6	ug/L			10/03/23 03:01	20
1,1-Dichloroethene	6.6	U	20	6.6	ug/L			10/03/23 03:01	20
1,2,4-Trichlorobenzene	11	U	100	11	ug/L			10/03/23 03:01	20
1,2-Dibromo-3-Chloropropane	36	U	100	36	ug/L			10/03/23 03:01	20
1,2-Dibromoethane (EDB)	6.6	U	20	6.6	ug/L			10/03/23 03:01	20
1,2-Dichlorobenzene	6.2	U	20	6.2	ug/L			10/03/23 03:01	20
1,2-Dichloroethane	5.0	U	20	5.0	ug/L			10/03/23 03:01	20
1,2-Dichloropropane	4.4	U	20	4.4	ug/L			10/03/23 03:01	20
1,3-Dichlorobenzene	6.2	U	20	6.2	ug/L			10/03/23 03:01	20
1,4-Dichlorobenzene	6.2	U	20	6.2	ug/L			10/03/23 03:01	20
2-Butanone (MEK)	130	U	200	130	ug/L			10/03/23 03:01	20
2-Hexanone	64	U	200	64	ug/L			10/03/23 03:01	20
4-Methyl-2-pentanone	54	U	200	54	ug/L			10/03/23 03:01	20
Acetone	74	U	200	74	ug/L			10/03/23 03:01	20
Benzene	5.4	U	20	5.4	ug/L			10/03/23 03:01	20
Bromodichloromethane	5.0	U	20	5.0	ug/L			10/03/23 03:01	20
Bromoform	12	U	20	12	ug/L			10/03/23 03:01	20
Bromomethane	74	U	100	74	ug/L			10/03/23 03:01	20
Carbon disulfide	8.6	U	40	8.6	ug/L			10/03/23 03:01	20
Carbon tetrachloride	6.0	U	20	6.0	ug/L			10/03/23 03:01	20
Chlorobenzene	3.0	U	20	3.0	ug/L			10/03/23 03:01	20
Chloroethane	92	U	100	92	ug/L			10/03/23 03:01	20
Chloroform	5.4	U	20	5.4	ug/L			10/03/23 03:01	20
Chloromethane	11	U	20	11	ug/L			10/03/23 03:01	20
cis-1,2-Dichloroethene	**32**		20	5.0	ug/L			10/03/23 03:01	20
cis-1,3-Dichloropropene	5.2	U	20	5.2	ug/L			10/03/23 03:01	20
Cyclohexane	5.6	U	20	5.6	ug/L			10/03/23 03:01	20
Dibromochloromethane	7.8	U	20	7.8	ug/L			10/03/23 03:01	20
Dichlorodifluoromethane	7.2	U	20	7.2	ug/L			10/03/23 03:01	20
Ethylbenzene	4.0	U	20	4.0	ug/L			10/03/23 03:01	20
Isopropylbenzene	5.2	U	20	5.2	ug/L			10/03/23 03:01	20
m,p-Xylenes	9.8	U	20	9.8	ug/L			10/03/23 03:01	20
Methyl acetate	64	U	100	64	ug/L			10/03/23 03:01	20
Methyl tert-butyl ether	16	U	100	16	ug/L			10/03/23 03:01	20
Methylene Chloride	64	U	100	64	ug/L			10/03/23 03:01	20
o-Xylene	5.2	U	20	5.2	ug/L			10/03/23 03:01	20
Styrene	5.4	U	20	5.4	ug/L			10/03/23 03:01	20

Client Sample ID: LC34-DPT0939-025.0-20230926 **Lab Sample ID: 670-27576-10**
Date Collected: 09/26/23 16:45 **Matrix: Water**
Date Received: 09/28/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	7.0	U	20	7.0	ug/L			10/03/23 03:01	20
Toluene	5.0	U	20	5.0	ug/L			10/03/23 03:01	20
trans-1,2-Dichloroethene	**110**		20	6.8	ug/L			10/03/23 03:01	20
trans-1,3-Dichloropropene	4.6	U	20	4.6	ug/L			10/03/23 03:01	20
Trichloroethene	4.0	U	20	4.0	ug/L			10/03/23 03:01	20
Trichlorofluoromethane	6.6	U	20	6.6	ug/L			10/03/23 03:01	20
Vinyl chloride	**3700**		20	8.0	ug/L			10/03/23 03:01	20
Xylenes, Total	4.6	U	20	4.6	ug/L			10/03/23 03:01	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 124*		*10/03/23 03:01*	*20*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*10/03/23 03:01*	*20*
Dibromofluoromethane (Surr)	*116*		*70 - 130*		*10/03/23 03:01*	*20*
Toluene-d8 (Surr)	*123*		*70 - 130*		*10/03/23 03:01*	*20*

Client Sample ID: LC34-DPT0939-034.0-20230926 **Lab Sample ID: 670-27576-11**
Date Collected: 09/26/23 17:00 **Matrix: Water**
Date Received: 09/28/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.42	U	2.0	0.42	ug/L			10/03/23 03:21	2
1,1,2,2-Tetrachloroethane	0.80	U	2.0	0.80	ug/L			10/03/23 03:21	2
1,1,2-Trichloro-1,2,2-trifluoroethane	0.46	U	2.0	0.46	ug/L			10/03/23 03:21	2
1,1,2-Trichloroethane	0.64	U	2.0	0.64	ug/L			10/03/23 03:21	2
1,1-Dichloroethane	0.66	U	2.0	0.66	ug/L			10/03/23 03:21	2
1,1-Dichloroethene	0.66	U	2.0	0.66	ug/L			10/03/23 03:21	2
1,2,4-Trichlorobenzene	1.1	U	10	1.1	ug/L			10/03/23 03:21	2
1,2-Dibromo-3-Chloropropane	3.6	U	10	3.6	ug/L			10/03/23 03:21	2
1,2-Dibromoethane (EDB)	0.66	U	2.0	0.66	ug/L			10/03/23 03:21	2
1,2-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/03/23 03:21	2
1,2-Dichloroethane	0.50	U	2.0	0.50	ug/L			10/03/23 03:21	2
1,2-Dichloropropane	0.44	U	2.0	0.44	ug/L			10/03/23 03:21	2
1,3-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/03/23 03:21	2
1,4-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/03/23 03:21	2
2-Butanone (MEK)	13	U	20	13	ug/L			10/03/23 03:21	2
2-Hexanone	6.4	U	20	6.4	ug/L			10/03/23 03:21	2
4-Methyl-2-pentanone	5.4	U	20	5.4	ug/L			10/03/23 03:21	2
Acetone	7.4	U	20	7.4	ug/L			10/03/23 03:21	2
Benzene	0.54	U	2.0	0.54	ug/L			10/03/23 03:21	2
Bromodichloromethane	0.50	U	2.0	0.50	ug/L			10/03/23 03:21	2
Bromoform	1.2	U	2.0	1.2	ug/L			10/03/23 03:21	2
Bromomethane	7.4	U	10	7.4	ug/L			10/03/23 03:21	2
Carbon disulfide	**2.1**	**I**	4.0	0.86	ug/L			10/03/23 03:21	2
Carbon tetrachloride	0.60	U	2.0	0.60	ug/L			10/03/23 03:21	2
Chlorobenzene	0.30	U	2.0	0.30	ug/L			10/03/23 03:21	2
Chloroethane	9.2	U	10	9.2	ug/L			10/03/23 03:21	2
Chloroform	0.54	U	2.0	0.54	ug/L			10/03/23 03:21	2
Chloromethane	1.1	U	2.0	1.1	ug/L			10/03/23 03:21	2
cis-1,2-Dichloroethene	**20**		2.0	0.50	ug/L			10/03/23 03:21	2

Client Sample ID: LC34-DPT0939-034.0-20230926

Lab Sample ID: 670-27576-11

Date Collected: 09/26/23 17:00
Matrix: Water
Date Received: 09/28/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	0.52	U	2.0	0.52	ug/L			10/03/23 03:21	2
Cyclohexane	0.56	U	2.0	0.56	ug/L			10/03/23 03:21	2
Dibromochloromethane	0.78	U	2.0	0.78	ug/L			10/03/23 03:21	2
Dichlorodifluoromethane	0.72	U	2.0	0.72	ug/L			10/03/23 03:21	2
Ethylbenzene	0.40	U	2.0	0.40	ug/L			10/03/23 03:21	2
Isopropylbenzene	0.52	U	2.0	0.52	ug/L			10/03/23 03:21	2
m,p-Xylenes	0.98	U	2.0	0.98	ug/L			10/03/23 03:21	2
Methyl acetate	6.4	U	10	6.4	ug/L			10/03/23 03:21	2
Methyl tert-butyl ether	1.6	U	10	1.6	ug/L			10/03/23 03:21	2
Methylene Chloride	6.4	U	10	6.4	ug/L			10/03/23 03:21	2
o-Xylene	0.52	U	2.0	0.52	ug/L			10/03/23 03:21	2
Styrene	0.54	U	2.0	0.54	ug/L			10/03/23 03:21	2
Tetrachloroethene	0.70	U	2.0	0.70	ug/L			10/03/23 03:21	2
Toluene	0.50	U	2.0	0.50	ug/L			10/03/23 03:21	2
trans-1,2-Dichloroethene	**3.2**		2.0	0.68	ug/L			10/03/23 03:21	2
trans-1,3-Dichloropropene	0.46	U	2.0	0.46	ug/L			10/03/23 03:21	2
Trichloroethene	0.40	U	2.0	0.40	ug/L			10/03/23 03:21	2
Trichlorofluoromethane	0.66	U	2.0	0.66	ug/L			10/03/23 03:21	2
Vinyl chloride	**180**		2.0	0.80	ug/L			10/03/23 03:21	2
Xylenes, Total	0.46	U	2.0	0.46	ug/L			10/03/23 03:21	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 124*		*10/03/23 03:21*	*2*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*10/03/23 03:21*	*2*
Dibromofluoromethane (Surr)	*113*		*70 - 130*		*10/03/23 03:21*	*2*
Toluene-d8 (Surr)	*124*		*70 - 130*		*10/03/23 03:21*	*2*

Client Sample ID: LC34-DPT0939-038.0-20230926

Lab Sample ID: 670-27576-12

Date Collected: 09/26/23 17:20
Matrix: Water
Date Received: 09/28/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/02/23 22:42	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/02/23 22:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/02/23 22:42	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/02/23 22:42	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/02/23 22:42	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/02/23 22:42	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/02/23 22:42	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/02/23 22:42	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/02/23 22:42	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/02/23 22:42	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/02/23 22:42	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/02/23 22:42	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/02/23 22:42	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/02/23 22:42	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/02/23 22:42	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/02/23 22:42	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/02/23 22:42	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27576-1
SDG: 670-27576-1

Client Sample ID: LC34-DPT0939-038.0-20230926

Lab Sample ID: 670-27576-12

Date Collected: 09/26/23 17:20
Matrix: Water
Date Received: 09/28/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	3.7	U	10	3.7	ug/L			10/02/23 22:42	1
Benzene	0.27	U	1.0	0.27	ug/L			10/02/23 22:42	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/02/23 22:42	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/02/23 22:42	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/02/23 22:42	1
Carbon disulfide	**1.9**	**I**	2.0	0.43	ug/L			10/02/23 22:42	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/02/23 22:42	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/02/23 22:42	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/02/23 22:42	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/02/23 22:42	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/02/23 22:42	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/02/23 22:42	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/02/23 22:42	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/02/23 22:42	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/02/23 22:42	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/02/23 22:42	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/02/23 22:42	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/02/23 22:42	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/02/23 22:42	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/02/23 22:42	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/02/23 22:42	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/02/23 22:42	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/02/23 22:42	1
Styrene	0.27	U	1.0	0.27	ug/L			10/02/23 22:42	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/02/23 22:42	1
Toluene	0.25	U	1.0	0.25	ug/L			10/02/23 22:42	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/02/23 22:42	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/02/23 22:42	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/02/23 22:42	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/02/23 22:42	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/02/23 22:42	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/02/23 22:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 124*		*10/02/23 22:42*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/02/23 22:42*	*1*
Dibromofluoromethane (Surr)	*114*		*70 - 130*		*10/02/23 22:42*	*1*
Toluene-d8 (Surr)	*126*		*70 - 130*		*10/02/23 22:42*	*1*

Client Sample ID: LC34-DPT0940-008.0-20230927

Lab Sample ID: 670-27576-13

Date Collected: 09/27/23 08:25
Matrix: Water
Date Received: 09/28/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/02/23 23:02	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/02/23 23:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/02/23 23:02	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/02/23 23:02	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/02/23 23:02	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27576-1
SDG: 670-27576-1

Client Sample ID: LC34-DPT0940-008.0-20230927
Date Collected: 09/27/23 08:25
Date Received: 09/28/23 08:00

Lab Sample ID: 670-27576-13
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/02/23 23:02	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/02/23 23:02	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/02/23 23:02	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/02/23 23:02	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/02/23 23:02	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/02/23 23:02	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/02/23 23:02	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/02/23 23:02	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/02/23 23:02	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/02/23 23:02	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/02/23 23:02	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/02/23 23:02	1
Acetone	3.7	U	10	3.7	ug/L			10/02/23 23:02	1
Benzene	0.27	U	1.0	0.27	ug/L			10/02/23 23:02	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/02/23 23:02	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/02/23 23:02	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/02/23 23:02	1
Carbon disulfide	**0.49**	**I**	2.0	0.43	ug/L			10/02/23 23:02	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/02/23 23:02	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/02/23 23:02	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/02/23 23:02	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/02/23 23:02	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/02/23 23:02	1
cis-1,2-Dichloroethene	**0.72**	**I**	1.0	0.25	ug/L			10/02/23 23:02	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/02/23 23:02	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/02/23 23:02	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/02/23 23:02	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/02/23 23:02	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/02/23 23:02	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/02/23 23:02	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/02/23 23:02	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/02/23 23:02	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/02/23 23:02	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/02/23 23:02	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/02/23 23:02	1
Styrene	0.27	U	1.0	0.27	ug/L			10/02/23 23:02	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/02/23 23:02	1
Toluene	0.25	U	1.0	0.25	ug/L			10/02/23 23:02	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/02/23 23:02	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/02/23 23:02	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/02/23 23:02	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/02/23 23:02	1
Vinyl chloride	**2.0**		1.0	0.40	ug/L			10/02/23 23:02	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/02/23 23:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*60 - 124*		*10/02/23 23:02*	*1*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*10/02/23 23:02*	*1*
Dibromofluoromethane (Surr)	*111*		*70 - 130*		*10/02/23 23:02*	*1*
Toluene-d8 (Surr)	*128*		*70 - 130*		*10/02/23 23:02*	*1*

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27576-1
SDG: 670-27576-1

Client Sample ID: LC34-DPT0940-013.0-20230927
Date Collected: 09/27/23 08:40
Date Received: 09/28/23 08:00

Lab Sample ID: 670-27576-14
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/02/23 23:22	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/02/23 23:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/02/23 23:22	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/02/23 23:22	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/02/23 23:22	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/02/23 23:22	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/02/23 23:22	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/02/23 23:22	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/02/23 23:22	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/02/23 23:22	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/02/23 23:22	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/02/23 23:22	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/02/23 23:22	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/02/23 23:22	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/02/23 23:22	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/02/23 23:22	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/02/23 23:22	1
Acetone	3.7	U	10	3.7	ug/L			10/02/23 23:22	1
Benzene	0.27	U	1.0	0.27	ug/L			10/02/23 23:22	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/02/23 23:22	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/02/23 23:22	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/02/23 23:22	1
Carbon disulfide	**0.55**	**I**	2.0	0.43	ug/L			10/02/23 23:22	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/02/23 23:22	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/02/23 23:22	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/02/23 23:22	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/02/23 23:22	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/02/23 23:22	1
cis-1,2-Dichloroethene	**1.3**		1.0	0.25	ug/L			10/02/23 23:22	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/02/23 23:22	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/02/23 23:22	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/02/23 23:22	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/02/23 23:22	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/02/23 23:22	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/02/23 23:22	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/02/23 23:22	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/02/23 23:22	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/02/23 23:22	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/02/23 23:22	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/02/23 23:22	1
Styrene	0.27	U	1.0	0.27	ug/L			10/02/23 23:22	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/02/23 23:22	1
Toluene	0.25	U	1.0	0.25	ug/L			10/02/23 23:22	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/02/23 23:22	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/02/23 23:22	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/02/23 23:22	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/02/23 23:22	1
Vinyl chloride	**4.9**		1.0	0.40	ug/L			10/02/23 23:22	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/02/23 23:22	1

Client Sample ID: LC34-DPT0940-013.0-20230927

Lab Sample ID: 670-27576-14

Date Collected: 09/27/23 08:40
Matrix: Water
Date Received: 09/28/23 08:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 124*		*10/02/23 23:22*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*10/02/23 23:22*	*1*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*10/02/23 23:22*	*1*
Toluene-d8 (Surr)	*128*		*70 - 130*		*10/02/23 23:22*	*1*

Client Sample ID: LC34-DPT0940-018.0-20230927

Lab Sample ID: 670-27576-15

Date Collected: 09/27/23 09:00
Matrix: Water
Date Received: 09/28/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/02/23 23:42	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/02/23 23:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/02/23 23:42	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/02/23 23:42	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/02/23 23:42	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/02/23 23:42	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/02/23 23:42	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/02/23 23:42	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/02/23 23:42	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/02/23 23:42	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/02/23 23:42	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/02/23 23:42	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/02/23 23:42	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/02/23 23:42	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/02/23 23:42	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/02/23 23:42	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/02/23 23:42	1
Acetone	3.7	U	10	3.7	ug/L			10/02/23 23:42	1
Benzene	0.27	U	1.0	0.27	ug/L			10/02/23 23:42	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/02/23 23:42	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/02/23 23:42	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/02/23 23:42	1
Carbon disulfide	**0.71**	**I**	2.0	0.43	ug/L			10/02/23 23:42	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/02/23 23:42	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/02/23 23:42	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/02/23 23:42	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/02/23 23:42	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/02/23 23:42	1
cis-1,2-Dichloroethene	**2.4**		1.0	0.25	ug/L			10/02/23 23:42	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/02/23 23:42	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/02/23 23:42	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/02/23 23:42	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/02/23 23:42	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/02/23 23:42	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/02/23 23:42	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/02/23 23:42	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/02/23 23:42	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/02/23 23:42	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/02/23 23:42	1

Client Sample ID: LC34-DPT0940-018.0-20230927 — **Lab Sample ID: 670-27576-15**
Date Collected: 09/27/23 09:00 — **Matrix: Water**
Date Received: 09/28/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	0.26	U	1.0	0.26	ug/L			10/02/23 23:42	1
Styrene	0.27	U	1.0	0.27	ug/L			10/02/23 23:42	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/02/23 23:42	1
Toluene	0.25	U	1.0	0.25	ug/L			10/02/23 23:42	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/02/23 23:42	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/02/23 23:42	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/02/23 23:42	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/02/23 23:42	1
Vinyl chloride	**3.5**		1.0	0.40	ug/L			10/02/23 23:42	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/02/23 23:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 124*		*10/02/23 23:42*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/02/23 23:42*	*1*
Dibromofluoromethane (Surr)	*112*		*70 - 130*		*10/02/23 23:42*	*1*
Toluene-d8 (Surr)	*125*		*70 - 130*		*10/02/23 23:42*	*1*

Client Sample ID: LC34-DPT0940-025.0-20230927 — **Lab Sample ID: 670-27576-16**
Date Collected: 09/27/23 09:20 — **Matrix: Water**
Date Received: 09/28/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/03/23 00:02	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/03/23 00:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/03/23 00:02	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/03/23 00:02	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/03/23 00:02	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/03/23 00:02	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/03/23 00:02	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/03/23 00:02	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/03/23 00:02	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/03/23 00:02	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/03/23 00:02	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/03/23 00:02	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/03/23 00:02	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/03/23 00:02	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/03/23 00:02	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/03/23 00:02	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/03/23 00:02	1
Acetone	3.7	U	10	3.7	ug/L			10/03/23 00:02	1
Benzene	0.27	U	1.0	0.27	ug/L			10/03/23 00:02	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/03/23 00:02	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/03/23 00:02	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/03/23 00:02	1
Carbon disulfide	**1.4**	**I**	2.0	0.43	ug/L			10/03/23 00:02	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/03/23 00:02	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/03/23 00:02	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/03/23 00:02	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/03/23 00:02	1

Client Sample ID: LC34-DPT0940-025.0-20230927

Lab Sample ID: 670-27576-16

Date Collected: 09/27/23 09:20

Matrix: Water

Date Received: 09/28/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	0.54	U	1.0	0.54	ug/L			10/03/23 00:02	1
cis-1,2-Dichloroethene	**5.7**		1.0	0.25	ug/L			10/03/23 00:02	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/03/23 00:02	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/03/23 00:02	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/03/23 00:02	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/03/23 00:02	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/03/23 00:02	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/03/23 00:02	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/03/23 00:02	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/03/23 00:02	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/03/23 00:02	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/03/23 00:02	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/03/23 00:02	1
Styrene	0.27	U	1.0	0.27	ug/L			10/03/23 00:02	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/03/23 00:02	1
Toluene	0.25	U	1.0	0.25	ug/L			10/03/23 00:02	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/03/23 00:02	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/03/23 00:02	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/03/23 00:02	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/03/23 00:02	1
Vinyl chloride	**4.1**		1.0	0.40	ug/L			10/03/23 00:02	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/03/23 00:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 124*		*10/03/23 00:02*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/03/23 00:02*	*1*
Dibromofluoromethane (Surr)	*114*		*70 - 130*		*10/03/23 00:02*	*1*
Toluene-d8 (Surr)	*125*		*70 - 130*		*10/03/23 00:02*	*1*

Client Sample ID: LC34-DPT0940-034.0-20230927

Lab Sample ID: 670-27576-17

Date Collected: 09/27/23 09:40

Matrix: Water

Date Received: 09/28/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/03/23 00:21	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/03/23 00:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/03/23 00:21	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/03/23 00:21	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/03/23 00:21	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/03/23 00:21	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/03/23 00:21	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/03/23 00:21	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/03/23 00:21	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/03/23 00:21	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/03/23 00:21	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/03/23 00:21	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/03/23 00:21	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/03/23 00:21	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/03/23 00:21	1

Client Sample ID: LC34-DPT0940-034.0-20230927

Lab Sample ID: 670-27576-17

Date Collected: 09/27/23 09:40
Matrix: Water
Date Received: 09/28/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	3.2	U	10	3.2	ug/L			10/03/23 00:21	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/03/23 00:21	1
Acetone	3.7	U	10	3.7	ug/L			10/03/23 00:21	1
Benzene	0.27	U	1.0	0.27	ug/L			10/03/23 00:21	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/03/23 00:21	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/03/23 00:21	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/03/23 00:21	1
Carbon disulfide	**0.78**	**I**	2.0	0.43	ug/L			10/03/23 00:21	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/03/23 00:21	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/03/23 00:21	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/03/23 00:21	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/03/23 00:21	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/03/23 00:21	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/03/23 00:21	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/03/23 00:21	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/03/23 00:21	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/03/23 00:21	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/03/23 00:21	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/03/23 00:21	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/03/23 00:21	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/03/23 00:21	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/03/23 00:21	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/03/23 00:21	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/03/23 00:21	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/03/23 00:21	1
Styrene	0.27	U	1.0	0.27	ug/L			10/03/23 00:21	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/03/23 00:21	1
Toluene	0.25	U	1.0	0.25	ug/L			10/03/23 00:21	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/03/23 00:21	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/03/23 00:21	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/03/23 00:21	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/03/23 00:21	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/03/23 00:21	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/03/23 00:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 124*		*10/03/23 00:21*	*1*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*10/03/23 00:21*	*1*
Dibromofluoromethane (Surr)	*111*		*70 - 130*		*10/03/23 00:21*	*1*
Toluene-d8 (Surr)	*125*		*70 - 130*		*10/03/23 00:21*	*1*

Client Sample ID: LC34-DPT0940-038.0-20230927

Lab Sample ID: 670-27576-18

Date Collected: 09/27/23 10:00
Matrix: Water
Date Received: 09/28/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/03/23 00:41	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/03/23 00:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/03/23 00:41	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27576-1
SDG: 670-27576-1

Client Sample ID: LC34-DPT0940-038.0-20230927
Date Collected: 09/27/23 10:00
Date Received: 09/28/23 08:00

Lab Sample ID: 670-27576-18
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/03/23 00:41	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/03/23 00:41	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/03/23 00:41	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/03/23 00:41	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/03/23 00:41	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/03/23 00:41	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/03/23 00:41	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/03/23 00:41	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/03/23 00:41	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/03/23 00:41	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/03/23 00:41	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/03/23 00:41	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/03/23 00:41	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/03/23 00:41	1
Acetone	3.7	U	10	3.7	ug/L			10/03/23 00:41	1
Benzene	0.27	U	1.0	0.27	ug/L			10/03/23 00:41	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/03/23 00:41	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/03/23 00:41	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/03/23 00:41	1
Carbon disulfide	**1.3**	**I**	2.0	0.43	ug/L			10/03/23 00:41	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/03/23 00:41	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/03/23 00:41	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/03/23 00:41	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/03/23 00:41	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/03/23 00:41	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/03/23 00:41	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/03/23 00:41	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/03/23 00:41	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/03/23 00:41	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/03/23 00:41	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/03/23 00:41	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/03/23 00:41	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/03/23 00:41	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/03/23 00:41	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/03/23 00:41	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/03/23 00:41	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/03/23 00:41	1
Styrene	0.27	U	1.0	0.27	ug/L			10/03/23 00:41	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/03/23 00:41	1
Toluene	0.25	U	1.0	0.25	ug/L			10/03/23 00:41	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/03/23 00:41	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/03/23 00:41	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/03/23 00:41	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/03/23 00:41	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/03/23 00:41	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/03/23 00:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 124*		*10/03/23 00:41*	*1*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*10/03/23 00:41*	*1*

Client Sample ID: LC34-DPT0940-038.0-20230927

Lab Sample ID: 670-27576-18

Date Collected: 09/27/23 10:00
Matrix: Water
Date Received: 09/28/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*113*		*70 - 130*		*10/03/23 00:41*	*1*
Toluene-d8 (Surr)	*126*		*70 - 130*		*10/03/23 00:41*	*1*

Client Sample ID: LC34-DPT0941-008.0-20230927

Lab Sample ID: 670-27576-19

Date Collected: 09/27/23 10:40
Matrix: Water
Date Received: 09/28/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/03/23 01:01	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/03/23 01:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/03/23 01:01	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/03/23 01:01	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/03/23 01:01	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/03/23 01:01	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/03/23 01:01	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/03/23 01:01	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/03/23 01:01	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/03/23 01:01	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/03/23 01:01	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/03/23 01:01	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/03/23 01:01	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/03/23 01:01	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/03/23 01:01	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/03/23 01:01	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/03/23 01:01	1
Acetone	3.7	U	10	3.7	ug/L			10/03/23 01:01	1
Benzene	0.27	U	1.0	0.27	ug/L			10/03/23 01:01	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/03/23 01:01	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/03/23 01:01	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/03/23 01:01	1
Carbon disulfide	**0.52**	**I**	2.0	0.43	ug/L			10/03/23 01:01	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/03/23 01:01	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/03/23 01:01	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/03/23 01:01	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/03/23 01:01	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/03/23 01:01	1
cis-1,2-Dichloroethene	**9.5**		1.0	0.25	ug/L			10/03/23 01:01	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/03/23 01:01	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/03/23 01:01	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/03/23 01:01	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/03/23 01:01	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/03/23 01:01	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/03/23 01:01	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/03/23 01:01	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/03/23 01:01	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/03/23 01:01	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/03/23 01:01	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/03/23 01:01	1

Client Sample ID: LC34-DPT0941-008.0-20230927

Lab Sample ID: 670-27576-19

Date Collected: 09/27/23 10:40

Matrix: Water

Date Received: 09/28/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.27	U	1.0	0.27	ug/L			10/03/23 01:01	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/03/23 01:01	1
Toluene	0.25	U	1.0	0.25	ug/L			10/03/23 01:01	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/03/23 01:01	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/03/23 01:01	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/03/23 01:01	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/03/23 01:01	1
Vinyl chloride	13		1.0	0.40	ug/L			10/03/23 01:01	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/03/23 01:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 124*		*10/03/23 01:01*	*1*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*10/03/23 01:01*	*1*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*10/03/23 01:01*	*1*
Toluene-d8 (Surr)	*128*		*70 - 130*		*10/03/23 01:01*	*1*

Client Sample ID: LC34-DPT0941-013.0-20230927

Lab Sample ID: 670-27576-20

Date Collected: 09/27/23 10:55

Matrix: Water

Date Received: 09/28/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.42	U	2.0	0.42	ug/L			10/03/23 03:40	2
1,1,2,2-Tetrachloroethane	0.80	U	2.0	0.80	ug/L			10/03/23 03:40	2
1,1,2-Trichloro-1,2,2-trifluoroethane	0.46	U	2.0	0.46	ug/L			10/03/23 03:40	2
1,1,2-Trichloroethane	0.64	U	2.0	0.64	ug/L			10/03/23 03:40	2
1,1-Dichloroethane	0.66	U	2.0	0.66	ug/L			10/03/23 03:40	2
1,1-Dichloroethene	0.66	U	2.0	0.66	ug/L			10/03/23 03:40	2
1,2,4-Trichlorobenzene	1.1	U	10	1.1	ug/L			10/03/23 03:40	2
1,2-Dibromo-3-Chloropropane	3.6	U	10	3.6	ug/L			10/03/23 03:40	2
1,2-Dibromoethane (EDB)	0.66	U	2.0	0.66	ug/L			10/03/23 03:40	2
1,2-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/03/23 03:40	2
1,2-Dichloroethane	0.50	U	2.0	0.50	ug/L			10/03/23 03:40	2
1,2-Dichloropropane	0.44	U	2.0	0.44	ug/L			10/03/23 03:40	2
1,3-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/03/23 03:40	2
1,4-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/03/23 03:40	2
2-Butanone (MEK)	13	U	20	13	ug/L			10/03/23 03:40	2
2-Hexanone	6.4	U	20	6.4	ug/L			10/03/23 03:40	2
4-Methyl-2-pentanone	5.4	U	20	5.4	ug/L			10/03/23 03:40	2
Acetone	7.4	U	20	7.4	ug/L			10/03/23 03:40	2
Benzene	0.54	U	2.0	0.54	ug/L			10/03/23 03:40	2
Bromodichloromethane	0.50	U	2.0	0.50	ug/L			10/03/23 03:40	2
Bromoform	1.2	U	2.0	1.2	ug/L			10/03/23 03:40	2
Bromomethane	7.4	U	10	7.4	ug/L			10/03/23 03:40	2
Carbon disulfide	0.86	U	4.0	0.86	ug/L			10/03/23 03:40	2
Carbon tetrachloride	0.60	U	2.0	0.60	ug/L			10/03/23 03:40	2
Chlorobenzene	0.30	U	2.0	0.30	ug/L			10/03/23 03:40	2
Chloroethane	9.2	U	10	9.2	ug/L			10/03/23 03:40	2
Chloroform	0.54	U	2.0	0.54	ug/L			10/03/23 03:40	2
Chloromethane	1.1	U	2.0	1.1	ug/L			10/03/23 03:40	2

Client Sample ID: LC34-DPT0941-013.0-20230927

Lab Sample ID: 670-27576-20

Date Collected: 09/27/23 10:55
Matrix: Water
Date Received: 09/28/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**7.1**		2.0	0.50	ug/L			10/03/23 03:40	2
cis-1,3-Dichloropropene	0.52	U	2.0	0.52	ug/L			10/03/23 03:40	2
Cyclohexane	0.56	U	2.0	0.56	ug/L			10/03/23 03:40	2
Dibromochloromethane	0.78	U	2.0	0.78	ug/L			10/03/23 03:40	2
Dichlorodifluoromethane	0.72	U	2.0	0.72	ug/L			10/03/23 03:40	2
Ethylbenzene	0.40	U	2.0	0.40	ug/L			10/03/23 03:40	2
Isopropylbenzene	0.52	U	2.0	0.52	ug/L			10/03/23 03:40	2
m,p-Xylenes	0.98	U	2.0	0.98	ug/L			10/03/23 03:40	2
Methyl acetate	6.4	U	10	6.4	ug/L			10/03/23 03:40	2
Methyl tert-butyl ether	1.6	U	10	1.6	ug/L			10/03/23 03:40	2
Methylene Chloride	6.4	U	10	6.4	ug/L			10/03/23 03:40	2
o-Xylene	0.52	U	2.0	0.52	ug/L			10/03/23 03:40	2
Styrene	0.54	U	2.0	0.54	ug/L			10/03/23 03:40	2
Tetrachloroethene	0.70	U	2.0	0.70	ug/L			10/03/23 03:40	2
Toluene	0.50	U	2.0	0.50	ug/L			10/03/23 03:40	2
trans-1,2-Dichloroethene	0.68	U	2.0	0.68	ug/L			10/03/23 03:40	2
trans-1,3-Dichloropropene	0.46	U	2.0	0.46	ug/L			10/03/23 03:40	2
Trichloroethene	0.40	U	2.0	0.40	ug/L			10/03/23 03:40	2
Trichlorofluoromethane	0.66	U	2.0	0.66	ug/L			10/03/23 03:40	2
Vinyl chloride	**290**		2.0	0.80	ug/L			10/03/23 03:40	2
Xylenes, Total	0.46	U	2.0	0.46	ug/L			10/03/23 03:40	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 124*		*10/03/23 03:40*	*2*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*10/03/23 03:40*	*2*
Dibromofluoromethane (Surr)	*116*		*70 - 130*		*10/03/23 03:40*	*2*
Toluene-d8 (Surr)	*122*		*70 - 130*		*10/03/23 03:40*	*2*

Client Sample ID: LC34-DPT0941-018.0-20230927

Lab Sample ID: 670-27576-21

Date Collected: 09/27/23 11:10
Matrix: Water
Date Received: 09/28/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2.1	U	10	2.1	ug/L			10/03/23 10:04	10
1,1,2,2-Tetrachloroethane	4.0	U	10	4.0	ug/L			10/03/23 10:04	10
1,1,2-Trichloro-1,2,2-trifluoroethane	2.3	U	10	2.3	ug/L			10/03/23 10:04	10
1,1,2-Trichloroethane	3.2	U	10	3.2	ug/L			10/03/23 10:04	10
1,1-Dichloroethane	3.3	U	10	3.3	ug/L			10/03/23 10:04	10
1,1-Dichloroethene	3.3	U	10	3.3	ug/L			10/03/23 10:04	10
1,2,4-Trichlorobenzene	5.3	U	50	5.3	ug/L			10/03/23 10:04	10
1,2-Dibromo-3-Chloropropane	18	U	50	18	ug/L			10/03/23 10:04	10
1,2-Dibromoethane (EDB)	3.3	U	10	3.3	ug/L			10/03/23 10:04	10
1,2-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/03/23 10:04	10
1,2-Dichloroethane	2.5	U	10	2.5	ug/L			10/03/23 10:04	10
1,2-Dichloropropane	2.2	U	10	2.2	ug/L			10/03/23 10:04	10
1,3-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/03/23 10:04	10
1,4-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/03/23 10:04	10
2-Butanone (MEK)	64	U	100	64	ug/L			10/03/23 10:04	10
2-Hexanone	32	U	100	32	ug/L			10/03/23 10:04	10

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27576-1
SDG: 670-27576-1

Client Sample ID: LC34-DPT0941-018.0-20230927

Lab Sample ID: 670-27576-21

Date Collected: 09/27/23 11:10
Matrix: Water
Date Received: 09/28/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone	27	U	100	27	ug/L			10/03/23 10:04	10
Acetone	37	U	100	37	ug/L			10/03/23 10:04	10
Benzene	2.7	U	10	2.7	ug/L			10/03/23 10:04	10
Bromodichloromethane	2.5	U	10	2.5	ug/L			10/03/23 10:04	10
Bromoform	5.9	U	10	5.9	ug/L			10/03/23 10:04	10
Bromomethane	37	U	50	37	ug/L			10/03/23 10:04	10
Carbon disulfide	4.3	U	20	4.3	ug/L			10/03/23 10:04	10
Carbon tetrachloride	3.0	U	10	3.0	ug/L			10/03/23 10:04	10
Chlorobenzene	1.5	U	10	1.5	ug/L			10/03/23 10:04	10
Chloroethane	46	U	50	46	ug/L			10/03/23 10:04	10
Chloroform	2.7	U	10	2.7	ug/L			10/03/23 10:04	10
Chloromethane	5.4	U	10	5.4	ug/L			10/03/23 10:04	10
cis-1,2-Dichloroethene	2.5	U	10	2.5	ug/L			10/03/23 10:04	10
cis-1,3-Dichloropropene	2.6	U	10	2.6	ug/L			10/03/23 10:04	10
Cyclohexane	2.8	U	10	2.8	ug/L			10/03/23 10:04	10
Dibromochloromethane	3.9	U	10	3.9	ug/L			10/03/23 10:04	10
Dichlorodifluoromethane	3.6	U	10	3.6	ug/L			10/03/23 10:04	10
Ethylbenzene	2.0	U	10	2.0	ug/L			10/03/23 10:04	10
Isopropylbenzene	2.6	U	10	2.6	ug/L			10/03/23 10:04	10
m,p-Xylenes	4.9	U	10	4.9	ug/L			10/03/23 10:04	10
Methyl acetate	32	U	50	32	ug/L			10/03/23 10:04	10
Methyl tert-butyl ether	8.1	U	50	8.1	ug/L			10/03/23 10:04	10
Methylene Chloride	32	U	50	32	ug/L			10/03/23 10:04	10
o-Xylene	2.6	U	10	2.6	ug/L			10/03/23 10:04	10
Styrene	2.7	U	10	2.7	ug/L			10/03/23 10:04	10
Tetrachloroethene	3.5	U	10	3.5	ug/L			10/03/23 10:04	10
Toluene	2.5	U	10	2.5	ug/L			10/03/23 10:04	10
trans-1,2-Dichloroethene	**4.3**	**I**	10	3.4	ug/L			10/03/23 10:04	10
trans-1,3-Dichloropropene	2.3	U	10	2.3	ug/L			10/03/23 10:04	10
Trichloroethene	2.0	U	10	2.0	ug/L			10/03/23 10:04	10
Trichlorofluoromethane	3.3	U	10	3.3	ug/L			10/03/23 10:04	10
Vinyl chloride	**1100**		10	4.0	ug/L			10/03/23 10:04	10
Xylenes, Total	2.3	U	10	2.3	ug/L			10/03/23 10:04	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 124*		*10/03/23 10:04*	*10*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/03/23 10:04*	*10*
Dibromofluoromethane (Surr)	*115*		*70 - 130*		*10/03/23 10:04*	*10*
Toluene-d8 (Surr)	*123*		*70 - 130*		*10/03/23 10:04*	*10*

Client Sample ID: LC34-DPT0941-025.0-20230927

Lab Sample ID: 670-27576-22

Date Collected: 09/27/23 11:25
Matrix: Water
Date Received: 09/28/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2.1	U	10	2.1	ug/L			10/03/23 10:24	10
1,1,2,2-Tetrachloroethane	4.0	U	10	4.0	ug/L			10/03/23 10:24	10
1,1,2-Trichloro-1,2,2-trifluoroethane	2.3	U	10	2.3	ug/L			10/03/23 10:24	10
1,1,2-Trichloroethane	3.2	U	10	3.2	ug/L			10/03/23 10:24	10

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27576-1
SDG: 670-27576-1

Client Sample ID: LC34-DPT0941-025.0-20230927
Date Collected: 09/27/23 11:25
Date Received: 09/28/23 08:00

Lab Sample ID: 670-27576-22
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	3.3	U	10	3.3	ug/L			10/03/23 10:24	10
1,1-Dichloroethene	3.3	U	10	3.3	ug/L			10/03/23 10:24	10
1,2,4-Trichlorobenzene	5.3	U	50	5.3	ug/L			10/03/23 10:24	10
1,2-Dibromo-3-Chloropropane	18	U	50	18	ug/L			10/03/23 10:24	10
1,2-Dibromoethane (EDB)	3.3	U	10	3.3	ug/L			10/03/23 10:24	10
1,2-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/03/23 10:24	10
1,2-Dichloroethane	2.5	U	10	2.5	ug/L			10/03/23 10:24	10
1,2-Dichloropropane	2.2	U	10	2.2	ug/L			10/03/23 10:24	10
1,3-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/03/23 10:24	10
1,4-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/03/23 10:24	10
2-Butanone (MEK)	64	U	100	64	ug/L			10/03/23 10:24	10
2-Hexanone	32	U	100	32	ug/L			10/03/23 10:24	10
4-Methyl-2-pentanone	27	U	100	27	ug/L			10/03/23 10:24	10
Acetone	37	U	100	37	ug/L			10/03/23 10:24	10
Benzene	2.7	U	10	2.7	ug/L			10/03/23 10:24	10
Bromodichloromethane	2.5	U	10	2.5	ug/L			10/03/23 10:24	10
Bromoform	5.9	U	10	5.9	ug/L			10/03/23 10:24	10
Bromomethane	37	U	50	37	ug/L			10/03/23 10:24	10
Carbon disulfide	4.3	U	20	4.3	ug/L			10/03/23 10:24	10
Carbon tetrachloride	3.0	U	10	3.0	ug/L			10/03/23 10:24	10
Chlorobenzene	1.5	U	10	1.5	ug/L			10/03/23 10:24	10
Chloroethane	46	U	50	46	ug/L			10/03/23 10:24	10
Chloroform	2.7	U	10	2.7	ug/L			10/03/23 10:24	10
Chloromethane	5.4	U	10	5.4	ug/L			10/03/23 10:24	10
cis-1,2-Dichloroethene	2.5	U	10	2.5	ug/L			10/03/23 10:24	10
cis-1,3-Dichloropropene	2.6	U	10	2.6	ug/L			10/03/23 10:24	10
Cyclohexane	2.8	U	10	2.8	ug/L			10/03/23 10:24	10
Dibromochloromethane	3.9	U	10	3.9	ug/L			10/03/23 10:24	10
Dichlorodifluoromethane	3.6	U	10	3.6	ug/L			10/03/23 10:24	10
Ethylbenzene	2.0	U	10	2.0	ug/L			10/03/23 10:24	10
Isopropylbenzene	2.6	U	10	2.6	ug/L			10/03/23 10:24	10
m,p-Xylenes	4.9	U	10	4.9	ug/L			10/03/23 10:24	10
Methyl acetate	32	U	50	32	ug/L			10/03/23 10:24	10
Methyl tert-butyl ether	8.1	U	50	8.1	ug/L			10/03/23 10:24	10
Methylene Chloride	32	U	50	32	ug/L			10/03/23 10:24	10
o-Xylene	2.6	U	10	2.6	ug/L			10/03/23 10:24	10
Styrene	2.7	U	10	2.7	ug/L			10/03/23 10:24	10
Tetrachloroethene	3.5	U	10	3.5	ug/L			10/03/23 10:24	10
Toluene	2.5	U	10	2.5	ug/L			10/03/23 10:24	10
trans-1,2-Dichloroethene	3.4	U	10	3.4	ug/L			10/03/23 10:24	10
trans-1,3-Dichloropropene	2.3	U	10	2.3	ug/L			10/03/23 10:24	10
Trichloroethene	2.0	U	10	2.0	ug/L			10/03/23 10:24	10
Trichlorofluoromethane	3.3	U	10	3.3	ug/L			10/03/23 10:24	10
Vinyl chloride	**1000**		10	4.0	ug/L			10/03/23 10:24	10
Xylenes, Total	2.3	U	10	2.3	ug/L			10/03/23 10:24	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 124*		*10/03/23 10:24*	*10*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*10/03/23 10:24*	*10*
Dibromofluoromethane (Surr)	*114*		*70 - 130*		*10/03/23 10:24*	*10*

Client Sample ID: LC34-DPT0941-025.0-20230927

Lab Sample ID: 670-27576-22

Date Collected: 09/27/23 11:25
Matrix: Water
Date Received: 09/28/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*124*		*70 - 130*		*10/03/23 10:24*	*10*

Client Sample ID: LC34-DPT0941-034.0-20230927

Lab Sample ID: 670-27576-23

Date Collected: 09/27/23 11:40
Matrix: Water
Date Received: 09/28/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/03/23 07:05	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/03/23 07:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/03/23 07:05	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/03/23 07:05	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/03/23 07:05	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/03/23 07:05	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/03/23 07:05	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/03/23 07:05	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/03/23 07:05	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/03/23 07:05	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/03/23 07:05	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/03/23 07:05	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/03/23 07:05	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/03/23 07:05	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/03/23 07:05	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/03/23 07:05	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/03/23 07:05	1
Acetone	3.7	U	10	3.7	ug/L			10/03/23 07:05	1
Benzene	0.27	U	1.0	0.27	ug/L			10/03/23 07:05	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/03/23 07:05	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/03/23 07:05	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/03/23 07:05	1
Carbon disulfide	**0.87**	**I**	2.0	0.43	ug/L			10/03/23 07:05	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/03/23 07:05	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/03/23 07:05	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/03/23 07:05	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/03/23 07:05	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/03/23 07:05	1
cis-1,2-Dichloroethene	**2.5**		1.0	0.25	ug/L			10/03/23 07:05	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/03/23 07:05	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/03/23 07:05	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/03/23 07:05	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/03/23 07:05	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/03/23 07:05	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/03/23 07:05	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/03/23 07:05	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/03/23 07:05	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/03/23 07:05	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/03/23 07:05	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/03/23 07:05	1
Styrene	0.27	U	1.0	0.27	ug/L			10/03/23 07:05	1

Client Sample ID: LC34-DPT0941-034.0-20230927

Lab Sample ID: 670-27576-23

Date Collected: 09/27/23 11:40
Matrix: Water
Date Received: 09/28/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/03/23 07:05	1
Toluene	0.25	U	1.0	0.25	ug/L			10/03/23 07:05	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/03/23 07:05	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/03/23 07:05	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/03/23 07:05	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/03/23 07:05	1
Vinyl chloride	**1.8**		1.0	0.40	ug/L			10/03/23 07:05	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/03/23 07:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 124*		*10/03/23 07:05*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*10/03/23 07:05*	*1*
Dibromofluoromethane (Surr)	*114*		*70 - 130*		*10/03/23 07:05*	*1*
Toluene-d8 (Surr)	*127*		*70 - 130*		*10/03/23 07:05*	*1*

Client Sample ID: LC34-DPT0941-038.0-20230927

Lab Sample ID: 670-27576-24

Date Collected: 09/27/23 12:00
Matrix: Water
Date Received: 09/28/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/03/23 07:25	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/03/23 07:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/03/23 07:25	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/03/23 07:25	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/03/23 07:25	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/03/23 07:25	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/03/23 07:25	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/03/23 07:25	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/03/23 07:25	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/03/23 07:25	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/03/23 07:25	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/03/23 07:25	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/03/23 07:25	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/03/23 07:25	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/03/23 07:25	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/03/23 07:25	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/03/23 07:25	1
Acetone	3.7	U	10	3.7	ug/L			10/03/23 07:25	1
Benzene	0.27	U	1.0	0.27	ug/L			10/03/23 07:25	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/03/23 07:25	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/03/23 07:25	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/03/23 07:25	1
Carbon disulfide	**0.81**	**I**	2.0	0.43	ug/L			10/03/23 07:25	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/03/23 07:25	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/03/23 07:25	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/03/23 07:25	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/03/23 07:25	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/03/23 07:25	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/03/23 07:25	1

Client Sample ID: LC34-DPT0941-038.0-20230927

Lab Sample ID: 670-27576-24

Date Collected: 09/27/23 12:00
Matrix: Water
Date Received: 09/28/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/03/23 07:25	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/03/23 07:25	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/03/23 07:25	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/03/23 07:25	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/03/23 07:25	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/03/23 07:25	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/03/23 07:25	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/03/23 07:25	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/03/23 07:25	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/03/23 07:25	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/03/23 07:25	1
Styrene	0.27	U	1.0	0.27	ug/L			10/03/23 07:25	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/03/23 07:25	1
Toluene	0.25	U	1.0	0.25	ug/L			10/03/23 07:25	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/03/23 07:25	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/03/23 07:25	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/03/23 07:25	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/03/23 07:25	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/03/23 07:25	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/03/23 07:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 124*		*10/03/23 07:25*	*1*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*10/03/23 07:25*	*1*
Dibromofluoromethane (Surr)	*112*		*70 - 130*		*10/03/23 07:25*	*1*
Toluene-d8 (Surr)	*127*		*70 - 130*		*10/03/23 07:25*	*1*

Client Sample ID: LC34-DPT0942-008.0-20230927

Lab Sample ID: 670-27576-25

Date Collected: 09/27/23 12:40
Matrix: Water
Date Received: 09/28/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/03/23 07:45	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/03/23 07:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/03/23 07:45	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/03/23 07:45	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/03/23 07:45	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/03/23 07:45	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/03/23 07:45	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/03/23 07:45	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/03/23 07:45	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/03/23 07:45	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/03/23 07:45	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/03/23 07:45	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/03/23 07:45	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/03/23 07:45	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/03/23 07:45	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/03/23 07:45	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/03/23 07:45	1

Client Sample ID: LC34-DPT0942-008.0-20230927

Lab Sample ID: 670-27576-25

Date Collected: 09/27/23 12:40

Matrix: Water

Date Received: 09/28/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	3.7	U	10	3.7	ug/L			10/03/23 07:45	1
Benzene	0.27	U	1.0	0.27	ug/L			10/03/23 07:45	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/03/23 07:45	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/03/23 07:45	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/03/23 07:45	1
Carbon disulfide	**0.50**	**I**	2.0	0.43	ug/L			10/03/23 07:45	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/03/23 07:45	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/03/23 07:45	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/03/23 07:45	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/03/23 07:45	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/03/23 07:45	1
cis-1,2-Dichloroethene	**8.2**		1.0	0.25	ug/L			10/03/23 07:45	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/03/23 07:45	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/03/23 07:45	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/03/23 07:45	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/03/23 07:45	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/03/23 07:45	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/03/23 07:45	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/03/23 07:45	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/03/23 07:45	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/03/23 07:45	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/03/23 07:45	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/03/23 07:45	1
Styrene	0.27	U	1.0	0.27	ug/L			10/03/23 07:45	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/03/23 07:45	1
Toluene	0.25	U	1.0	0.25	ug/L			10/03/23 07:45	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/03/23 07:45	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/03/23 07:45	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/03/23 07:45	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/03/23 07:45	1
Vinyl chloride	**13**		1.0	0.40	ug/L			10/03/23 07:45	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/03/23 07:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 124*		*10/03/23 07:45*	*1*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*10/03/23 07:45*	*1*
Dibromofluoromethane (Surr)	*112*		*70 - 130*		*10/03/23 07:45*	*1*
Toluene-d8 (Surr)	*126*		*70 - 130*		*10/03/23 07:45*	*1*

Client Sample ID: LC34-DPT0942-013.0-20230927

Lab Sample ID: 670-27576-26

Date Collected: 09/27/23 12:55

Matrix: Water

Date Received: 09/28/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/03/23 08:05	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/03/23 08:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/03/23 08:05	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/03/23 08:05	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/03/23 08:05	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27576-1
SDG: 670-27576-1

Client Sample ID: LC34-DPT0942-013.0-20230927
Date Collected: 09/27/23 12:55
Date Received: 09/28/23 08:00

Lab Sample ID: 670-27576-26
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/03/23 08:05	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/03/23 08:05	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/03/23 08:05	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/03/23 08:05	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/03/23 08:05	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/03/23 08:05	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/03/23 08:05	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/03/23 08:05	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/03/23 08:05	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/03/23 08:05	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/03/23 08:05	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/03/23 08:05	1
Acetone	3.7	U	10	3.7	ug/L			10/03/23 08:05	1
Benzene	0.27	U	1.0	0.27	ug/L			10/03/23 08:05	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/03/23 08:05	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/03/23 08:05	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/03/23 08:05	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/03/23 08:05	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/03/23 08:05	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/03/23 08:05	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/03/23 08:05	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/03/23 08:05	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/03/23 08:05	1
cis-1,2-Dichloroethene	**13**		1.0	0.25	ug/L			10/03/23 08:05	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/03/23 08:05	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/03/23 08:05	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/03/23 08:05	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/03/23 08:05	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/03/23 08:05	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/03/23 08:05	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/03/23 08:05	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/03/23 08:05	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/03/23 08:05	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/03/23 08:05	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/03/23 08:05	1
Styrene	0.27	U	1.0	0.27	ug/L			10/03/23 08:05	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/03/23 08:05	1
Toluene	0.25	U	1.0	0.25	ug/L			10/03/23 08:05	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/03/23 08:05	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/03/23 08:05	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/03/23 08:05	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/03/23 08:05	1
Vinyl chloride	**24**		1.0	0.40	ug/L			10/03/23 08:05	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/03/23 08:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 124*		*10/03/23 08:05*	*1*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*10/03/23 08:05*	*1*
Dibromofluoromethane (Surr)	*111*		*70 - 130*		*10/03/23 08:05*	*1*
Toluene-d8 (Surr)	*124*		*70 - 130*		*10/03/23 08:05*	*1*

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27576-1
SDG: 670-27576-1

Client Sample ID: LC34-DPT0942-018.0-20230927
Date Collected: 09/27/23 13:10
Date Received: 09/28/23 08:00

Lab Sample ID: 670-27576-27
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/03/23 08:25	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/03/23 08:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/03/23 08:25	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/03/23 08:25	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/03/23 08:25	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/03/23 08:25	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/03/23 08:25	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/03/23 08:25	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/03/23 08:25	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/03/23 08:25	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/03/23 08:25	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/03/23 08:25	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/03/23 08:25	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/03/23 08:25	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/03/23 08:25	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/03/23 08:25	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/03/23 08:25	1
Acetone	3.7	U	10	3.7	ug/L			10/03/23 08:25	1
Benzene	0.27	U	1.0	0.27	ug/L			10/03/23 08:25	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/03/23 08:25	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/03/23 08:25	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/03/23 08:25	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/03/23 08:25	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/03/23 08:25	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/03/23 08:25	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/03/23 08:25	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/03/23 08:25	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/03/23 08:25	1
cis-1,2-Dichloroethene	**11**		1.0	0.25	ug/L			10/03/23 08:25	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/03/23 08:25	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/03/23 08:25	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/03/23 08:25	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/03/23 08:25	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/03/23 08:25	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/03/23 08:25	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/03/23 08:25	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/03/23 08:25	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/03/23 08:25	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/03/23 08:25	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/03/23 08:25	1
Styrene	0.27	U	1.0	0.27	ug/L			10/03/23 08:25	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/03/23 08:25	1
Toluene	0.25	U	1.0	0.25	ug/L			10/03/23 08:25	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/03/23 08:25	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/03/23 08:25	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/03/23 08:25	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/03/23 08:25	1
Vinyl chloride	**16**		1.0	0.40	ug/L			10/03/23 08:25	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/03/23 08:25	1

Client Sample ID: LC34-DPT0942-018.0-20230927

Lab Sample ID: 670-27576-27

Date Collected: 09/27/23 13:10
Matrix: Water
Date Received: 09/28/23 08:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 124*		*10/03/23 08:25*	*1*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*10/03/23 08:25*	*1*
Dibromofluoromethane (Surr)	*112*		*70 - 130*		*10/03/23 08:25*	*1*
Toluene-d8 (Surr)	*124*		*70 - 130*		*10/03/23 08:25*	*1*

Client Sample ID: LC34-DPT0942-025.0-20230927

Lab Sample ID: 670-27576-28

Date Collected: 09/27/23 13:25
Matrix: Water
Date Received: 09/28/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	4.2	U	20	4.2	ug/L			10/03/23 10:44	20
1,1,2,2-Tetrachloroethane	8.0	U	20	8.0	ug/L			10/03/23 10:44	20
1,1,2-Trichloro-1,2,2-trifluoroethane	4.6	U	20	4.6	ug/L			10/03/23 10:44	20
1,1,2-Trichloroethane	6.4	U	20	6.4	ug/L			10/03/23 10:44	20
1,1-Dichloroethane	6.6	U	20	6.6	ug/L			10/03/23 10:44	20
1,1-Dichloroethene	6.6	U	20	6.6	ug/L			10/03/23 10:44	20
1,2,4-Trichlorobenzene	11	U	100	11	ug/L			10/03/23 10:44	20
1,2-Dibromo-3-Chloropropane	36	U	100	36	ug/L			10/03/23 10:44	20
1,2-Dibromoethane (EDB)	6.6	U	20	6.6	ug/L			10/03/23 10:44	20
1,2-Dichlorobenzene	6.2	U	20	6.2	ug/L			10/03/23 10:44	20
1,2-Dichloroethane	5.0	U	20	5.0	ug/L			10/03/23 10:44	20
1,2-Dichloropropane	4.4	U	20	4.4	ug/L			10/03/23 10:44	20
1,3-Dichlorobenzene	6.2	U	20	6.2	ug/L			10/03/23 10:44	20
1,4-Dichlorobenzene	6.2	U	20	6.2	ug/L			10/03/23 10:44	20
2-Butanone (MEK)	130	U	200	130	ug/L			10/03/23 10:44	20
2-Hexanone	64	U	200	64	ug/L			10/03/23 10:44	20
4-Methyl-2-pentanone	54	U	200	54	ug/L			10/03/23 10:44	20
Acetone	74	U	200	74	ug/L			10/03/23 10:44	20
Benzene	5.4	U	20	5.4	ug/L			10/03/23 10:44	20
Bromodichloromethane	5.0	U	20	5.0	ug/L			10/03/23 10:44	20
Bromoform	12	U	20	12	ug/L			10/03/23 10:44	20
Bromomethane	74	U	100	74	ug/L			10/03/23 10:44	20
Carbon disulfide	8.6	U	40	8.6	ug/L			10/03/23 10:44	20
Carbon tetrachloride	6.0	U	20	6.0	ug/L			10/03/23 10:44	20
Chlorobenzene	3.0	U	20	3.0	ug/L			10/03/23 10:44	20
Chloroethane	92	U	100	92	ug/L			10/03/23 10:44	20
Chloroform	5.4	U	20	5.4	ug/L			10/03/23 10:44	20
Chloromethane	11	U	20	11	ug/L			10/03/23 10:44	20
cis-1,2-Dichloroethene	5.0	U	20	5.0	ug/L			10/03/23 10:44	20
cis-1,3-Dichloropropene	5.2	U	20	5.2	ug/L			10/03/23 10:44	20
Cyclohexane	5.6	U	20	5.6	ug/L			10/03/23 10:44	20
Dibromochloromethane	7.8	U	20	7.8	ug/L			10/03/23 10:44	20
Dichlorodifluoromethane	7.2	U	20	7.2	ug/L			10/03/23 10:44	20
Ethylbenzene	4.0	U	20	4.0	ug/L			10/03/23 10:44	20
Isopropylbenzene	5.2	U	20	5.2	ug/L			10/03/23 10:44	20
m,p-Xylenes	9.8	U	20	9.8	ug/L			10/03/23 10:44	20
Methyl acetate	64	U	100	64	ug/L			10/03/23 10:44	20
Methyl tert-butyl ether	16	U	100	16	ug/L			10/03/23 10:44	20
Methylene Chloride	64	U	100	64	ug/L			10/03/23 10:44	20

Client Sample ID: LC34-DPT0942-025.0-20230927

Lab Sample ID: 670-27576-28

Date Collected: 09/27/23 13:25

Matrix: Water

Date Received: 09/28/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	5.2	U	20	5.2	ug/L			10/03/23 10:44	20
Styrene	5.4	U	20	5.4	ug/L			10/03/23 10:44	20
Tetrachloroethene	7.0	U	20	7.0	ug/L			10/03/23 10:44	20
Toluene	5.0	U	20	5.0	ug/L			10/03/23 10:44	20
trans-1,2-Dichloroethene	**93**		20	6.8	ug/L			10/03/23 10:44	20
trans-1,3-Dichloropropene	4.6	U	20	4.6	ug/L			10/03/23 10:44	20
Trichloroethene	4.0	U	20	4.0	ug/L			10/03/23 10:44	20
Trichlorofluoromethane	6.6	U	20	6.6	ug/L			10/03/23 10:44	20
Vinyl chloride	**1200**		20	8.0	ug/L			10/03/23 10:44	20
Xylenes, Total	4.6	U	20	4.6	ug/L			10/03/23 10:44	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 124*		*10/03/23 10:44*	*20*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*10/03/23 10:44*	*20*
Dibromofluoromethane (Surr)	*116*		*70 - 130*		*10/03/23 10:44*	*20*
Toluene-d8 (Surr)	*125*		*70 - 130*		*10/03/23 10:44*	*20*

Client Sample ID: LC34-DPT0942-034.0-20230927

Lab Sample ID: 670-27576-29

Date Collected: 09/27/23 13:40

Matrix: Water

Date Received: 09/28/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/03/23 08:45	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/03/23 08:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/03/23 08:45	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/03/23 08:45	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/03/23 08:45	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/03/23 08:45	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/03/23 08:45	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/03/23 08:45	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/03/23 08:45	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/03/23 08:45	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/03/23 08:45	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/03/23 08:45	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/03/23 08:45	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/03/23 08:45	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/03/23 08:45	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/03/23 08:45	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/03/23 08:45	1
Acetone	3.7	U	10	3.7	ug/L			10/03/23 08:45	1
Benzene	0.27	U	1.0	0.27	ug/L			10/03/23 08:45	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/03/23 08:45	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/03/23 08:45	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/03/23 08:45	1
Carbon disulfide	**1.1**	**I**	2.0	0.43	ug/L			10/03/23 08:45	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/03/23 08:45	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/03/23 08:45	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/03/23 08:45	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/03/23 08:45	1

Client Sample ID: LC34-DPT0942-034.0-20230927

Lab Sample ID: 670-27576-29

Date Collected: 09/27/23 13:40

Matrix: Water

Date Received: 09/28/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	0.54	U	1.0	0.54	ug/L			10/03/23 08:45	1
cis-1,2-Dichloroethene	**2.9**		1.0	0.25	ug/L			10/03/23 08:45	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/03/23 08:45	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/03/23 08:45	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/03/23 08:45	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/03/23 08:45	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/03/23 08:45	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/03/23 08:45	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/03/23 08:45	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/03/23 08:45	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/03/23 08:45	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/03/23 08:45	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/03/23 08:45	1
Styrene	0.27	U	1.0	0.27	ug/L			10/03/23 08:45	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/03/23 08:45	1
Toluene	0.25	U	1.0	0.25	ug/L			10/03/23 08:45	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/03/23 08:45	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/03/23 08:45	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/03/23 08:45	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/03/23 08:45	1
Vinyl chloride	**16**		1.0	0.40	ug/L			10/03/23 08:45	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/03/23 08:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 124*		*10/03/23 08:45*	*1*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*10/03/23 08:45*	*1*
Dibromofluoromethane (Surr)	*112*		*70 - 130*		*10/03/23 08:45*	*1*
Toluene-d8 (Surr)	*127*		*70 - 130*		*10/03/23 08:45*	*1*

Client Sample ID: LC34-DPT0942-038.0-20230927

Lab Sample ID: 670-27576-30

Date Collected: 09/27/23 14:05

Matrix: Water

Date Received: 09/28/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/03/23 09:05	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/03/23 09:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/03/23 09:05	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/03/23 09:05	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/03/23 09:05	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/03/23 09:05	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/03/23 09:05	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/03/23 09:05	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/03/23 09:05	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/03/23 09:05	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/03/23 09:05	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/03/23 09:05	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/03/23 09:05	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/03/23 09:05	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/03/23 09:05	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27576-1
SDG: 670-27576-1

Client Sample ID: LC34-DPT0942-038.0-20230927
Date Collected: 09/27/23 14:05
Date Received: 09/28/23 08:00

Lab Sample ID: 670-27576-30
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	3.2	U	10	3.2	ug/L			10/03/23 09:05	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/03/23 09:05	1
Acetone	3.7	U	10	3.7	ug/L			10/03/23 09:05	1
Benzene	0.27	U	1.0	0.27	ug/L			10/03/23 09:05	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/03/23 09:05	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/03/23 09:05	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/03/23 09:05	1
Carbon disulfide	**1.6**	**I**	2.0	0.43	ug/L			10/03/23 09:05	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/03/23 09:05	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/03/23 09:05	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/03/23 09:05	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/03/23 09:05	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/03/23 09:05	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/03/23 09:05	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/03/23 09:05	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/03/23 09:05	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/03/23 09:05	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/03/23 09:05	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/03/23 09:05	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/03/23 09:05	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/03/23 09:05	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/03/23 09:05	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/03/23 09:05	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/03/23 09:05	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/03/23 09:05	1
Styrene	0.27	U	1.0	0.27	ug/L			10/03/23 09:05	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/03/23 09:05	1
Toluene	0.25	U	1.0	0.25	ug/L			10/03/23 09:05	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/03/23 09:05	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/03/23 09:05	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/03/23 09:05	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/03/23 09:05	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/03/23 09:05	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/03/23 09:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 124*		*10/03/23 09:05*	*1*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*		*10/03/23 09:05*	*1*
Dibromofluoromethane (Surr)	*113*		*70 - 130*		*10/03/23 09:05*	*1*
Toluene-d8 (Surr)	*126*		*70 - 130*		*10/03/23 09:05*	*1*

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27576-1
SDG: 670-27576-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(60-124)	(70-130)	(70-130)	(70-130)
670-27576-1	LC34-DPT0938-008.0-20230926	95	103	113	124
670-27576-2	LC34-DPT0938-013.0-20230926	97	102	112	127
670-27576-3	LC34-DPT0938-018.0-20230926	99	102	113	123
670-27576-4	LC34-DPT09380-025.0-20230926	100	103	114	123
670-27576-5	LC34-DPT0938-034.0-20230926	96	101	111	126
670-27576-6	LC34-DPT0938-038.0-20230926	98	103	115	128
670-27576-7	LC34-DPT0939-008.0-20230926	100	102	112	125
670-27576-8	LC34-DPT0939-013.0-20230926	103	104	113	122
670-27576-9	LC34-DPT0939-018.0-20230926	100	103	109	121
670-27576-10	LC34-DPT0939-025.0-20230926	102	102	116	123
670-27576-11	LC34-DPT0939-034.0-20230926	99	104	113	124
670-27576-12	LC34-DPT0939-038.0-20230926	97	101	114	126
670-27576-13	LC34-DPT0940-008.0-20230927	96	105	111	128
670-27576-14	LC34-DPT0940-013.0-20230927	98	102	109	128
670-27576-15	LC34-DPT0940-018.0-20230927	99	101	112	125
670-27576-16	LC34-DPT0940-025.0-20230927	98	101	114	125
670-27576-17	LC34-DPT0940-034.0-20230927	98	103	111	125
670-27576-18	LC34-DPT0940-038.0-20230927	98	104	113	126
670-27576-19	LC34-DPT0941-008.0-20230927	98	103	109	128
670-27576-20	LC34-DPT0941-013.0-20230927	103	104	116	122
670-27576-21	LC34-DPT0941-018.0-20230927	104	101	115	123
670-27576-22	LC34-DPT0941-025.0-20230927	101	103	114	124
670-27576-23	LC34-DPT0941-034.0-20230927	98	102	114	127
670-27576-24	LC34-DPT0941-038.0-20230927	98	105	112	127
670-27576-25	LC34-DPT0942-008.0-20230927	98	104	112	126
670-27576-26	LC34-DPT0942-013.0-20230927	99	104	111	124
670-27576-27	LC34-DPT0942-018.0-20230927	100	104	112	124
670-27576-28	LC34-DPT0942-025.0-20230927	100	104	116	125

Surrogate Summary

Client: Tetra Tech, Inc.
Job ID: 670-27576-1
Project/Site: NASA KSC LC34 DPT
SDG: 670-27576-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Matrix: Water
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(60-124)	(70-130)	(70-130)	(70-130)
670-27576-29	LC34-DPT0942-034.0-20230927	99	105	112	127
670-27576-30	LC34-DPT0942-038.0-20230927	100	106	113	126
LCS 680-800695/3	Lab Control Sample	101	104	106	118
LCS 680-800707/3	Lab Control Sample	102	102	113	114
LCSD 680-800695/4	Lab Control Sample Dup	104	107	105	115
LCSD 680-800707/4	Lab Control Sample Dup	105	102	108	114
MB 680-800695/7	Method Blank	98	103	114	125
MB 680-800707/7	Method Blank	101	103	114	125

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 680-800695/7
Matrix: Water
Analysis Batch: 800695

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/02/23 20:29	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/02/23 20:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/02/23 20:29	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/02/23 20:29	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/02/23 20:29	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/02/23 20:29	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/02/23 20:29	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/02/23 20:29	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/02/23 20:29	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/02/23 20:29	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/02/23 20:29	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/02/23 20:29	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/02/23 20:29	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/02/23 20:29	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/02/23 20:29	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/02/23 20:29	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/02/23 20:29	1
Acetone	3.7	U	10	3.7	ug/L			10/02/23 20:29	1
Benzene	0.27	U	1.0	0.27	ug/L			10/02/23 20:29	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/02/23 20:29	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/02/23 20:29	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/02/23 20:29	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/02/23 20:29	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/02/23 20:29	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/02/23 20:29	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/02/23 20:29	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/02/23 20:29	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/02/23 20:29	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/02/23 20:29	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/02/23 20:29	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/02/23 20:29	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/02/23 20:29	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/02/23 20:29	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/02/23 20:29	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/02/23 20:29	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/02/23 20:29	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/02/23 20:29	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/02/23 20:29	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/02/23 20:29	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/02/23 20:29	1
Styrene	0.27	U	1.0	0.27	ug/L			10/02/23 20:29	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/02/23 20:29	1
Toluene	0.25	U	1.0	0.25	ug/L			10/02/23 20:29	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/02/23 20:29	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/02/23 20:29	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/02/23 20:29	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/02/23 20:29	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/02/23 20:29	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-800695/7
Matrix: Water
Analysis Batch: 800695

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/02/23 20:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 124*		*10/02/23 20:29*	*1*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*10/02/23 20:29*	*1*
Dibromofluoromethane (Surr)	*114*		*70 - 130*		*10/02/23 20:29*	*1*
Toluene-d8 (Surr)	*125*		*70 - 130*		*10/02/23 20:29*	*1*

Lab Sample ID: LCS 680-800695/3
Matrix: Water
Analysis Batch: 800695

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	48.8		ug/L		98	70 - 130
1,1,2,2-Tetrachloroethane	50.0	45.9		ug/L		92	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	59.6		ug/L		119	63 - 141
1,1,2-Trichloroethane	50.0	46.4		ug/L		93	70 - 130
1,1-Dichloroethane	50.0	50.9		ug/L		102	70 - 130
1,1-Dichloroethene	50.0	56.2		ug/L		112	70 - 130
1,2,4-Trichlorobenzene	50.0	52.9		ug/L		106	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	48.6		ug/L		97	70 - 130
1,2-Dibromoethane (EDB)	50.0	50.1		ug/L		100	70 - 130
1,2-Dichlorobenzene	50.0	52.1		ug/L		104	70 - 130
1,2-Dichloroethane	50.0	47.5		ug/L		95	70 - 130
1,2-Dichloropropane	50.0	50.1		ug/L		100	70 - 130
1,3-Dichlorobenzene	50.0	51.1		ug/L		102	70 - 130
1,4-Dichlorobenzene	50.0	51.0		ug/L		102	70 - 130
2-Butanone (MEK)	250	241		ug/L		96	69 - 120
2-Hexanone	250	251		ug/L		100	70 - 130
4-Methyl-2-pentanone	250	216		ug/L		87	68 - 120
Acetone	250	240		ug/L		96	67 - 120
Benzene	50.0	49.0		ug/L		98	70 - 130
Bromodichloromethane	50.0	49.3		ug/L		99	70 - 130
Bromoform	50.0	52.0		ug/L		104	69 - 129
Bromomethane	50.0	48.6		ug/L		97	28 - 192
Carbon disulfide	50.0	50.5		ug/L		101	70 - 130
Carbon tetrachloride	50.0	51.9		ug/L		104	70 - 130
Chlorobenzene	50.0	52.4		ug/L		105	70 - 130
Chloroethane	50.0	50.8		ug/L		102	31 - 213
Chloroform	50.0	50.5		ug/L		101	70 - 130
Chloromethane	50.0	41.9		ug/L		84	59 - 127
cis-1,2-Dichloroethene	50.0	50.8		ug/L		102	70 - 130
cis-1,3-Dichloropropene	50.0	50.8		ug/L		102	70 - 130
Cyclohexane	50.0	51.2		ug/L		102	23 - 175
Dibromochloromethane	50.0	49.9		ug/L		100	70 - 130
Dichlorodifluoromethane	50.0	40.5		ug/L		81	70 - 130
Ethylbenzene	50.0	46.3		ug/L		93	70 - 130
Isopropylbenzene	50.0	47.7		ug/L		95	70 - 130

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-800695/3
Matrix: Water
Analysis Batch: 800695

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
m,p-Xylenes			50.0	53.7		ug/L		107	70 - 130		
Methyl acetate			100	85.5		ug/L		86	67 - 120		
Methyl tert-butyl ether			50.0	49.2		ug/L		98	70 - 130		
Methylene Chloride			50.0	49.7		ug/L		99	70 - 130		
o-Xylene			50.0	46.7		ug/L		93	70 - 130		
Styrene			50.0	57.6		ug/L		115	70 - 130		
Tetrachloroethene			50.0	51.9		ug/L		104	70 - 130		
Toluene			50.0	53.8		ug/L		108	70 - 130		
trans-1,2-Dichloroethene			50.0	52.9		ug/L		106	70 - 130		
trans-1,3-Dichloropropene			50.0	49.5		ug/L		99	70 - 130		
Trichloroethene			50.0	55.4		ug/L		111	70 - 130		
Trichlorofluoromethane			50.0	54.2		ug/L		108	63 - 142		
Vinyl chloride			50.0	43.7		ug/L		87	66 - 129		
Xylenes, Total			100	100		ug/L		100	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 124*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
Dibromofluoromethane (Surr)	*106*		*70 - 130*
Toluene-d8 (Surr)	*118*		*70 - 130*

Lab Sample ID: LCSD 680-800695/4
Matrix: Water
Analysis Batch: 800695

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane			50.0	48.4		ug/L		97	70 - 130	1	30
1,1,2,2-Tetrachloroethane			50.0	48.2		ug/L		96	70 - 130	5	30
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	58.8		ug/L		118	63 - 141	1	30
1,1,2-Trichloroethane			50.0	49.1		ug/L		98	70 - 130	6	30
1,1-Dichloroethane			50.0	48.4		ug/L		97	70 - 130	5	30
1,1-Dichloroethene			50.0	54.1		ug/L		108	70 - 130	4	20
1,2,4-Trichlorobenzene			50.0	52.8		ug/L		106	70 - 130	0	30
1,2-Dibromo-3-Chloropropane			50.0	52.2		ug/L		104	70 - 130	7	30
1,2-Dibromoethane (EDB)			50.0	53.0		ug/L		106	70 - 130	5	30
1,2-Dichlorobenzene			50.0	52.7		ug/L		105	70 - 130	1	30
1,2-Dichloroethane			50.0	49.1		ug/L		98	70 - 130	3	50
1,2-Dichloropropane			50.0	51.1		ug/L		102	70 - 130	2	20
1,3-Dichlorobenzene			50.0	51.6		ug/L		103	70 - 130	1	30
1,4-Dichlorobenzene			50.0	51.9		ug/L		104	70 - 130	2	30
2-Butanone (MEK)			250	274		ug/L		109	69 - 120	13	30
2-Hexanone			250	272		ug/L		109	70 - 130	8	20
4-Methyl-2-pentanone			250	235		ug/L		94	68 - 120	8	30
Acetone			250	260		ug/L		104	67 - 120	8	30
Benzene			50.0	49.5		ug/L		99	70 - 130	1	30
Bromodichloromethane			50.0	50.4		ug/L		101	70 - 130	2	30
Bromoform			50.0	52.2		ug/L		104	69 - 129	0	30
Bromomethane			50.0	47.5		ug/L		95	28 - 192	2	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-800695/4
Matrix: Water
Analysis Batch: 800695

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon disulfide			50.0	47.9		ug/L		96	70 - 130	5	30
Carbon tetrachloride			50.0	51.1		ug/L		102	70 - 130	2	30
Chlorobenzene			50.0	52.4		ug/L		105	70 - 130	0	30
Chloroethane			50.0	46.0		ug/L		92	31 - 213	10	30
Chloroform			50.0	49.4		ug/L		99	70 - 130	2	30
Chloromethane			50.0	39.6		ug/L		79	59 - 127	6	30
cis-1,2-Dichloroethene			50.0	49.8		ug/L		100	70 - 130	2	30
cis-1,3-Dichloropropene			50.0	52.2		ug/L		104	70 - 130	3	20
Cyclohexane			50.0	50.9		ug/L		102	23 - 175	1	30
Dibromochloromethane			50.0	51.4		ug/L		103	70 - 130	3	30
Dichlorodifluoromethane			50.0	39.9		ug/L		80	70 - 130	1	40
Ethylbenzene			50.0	44.8		ug/L		90	70 - 130	3	20
Isopropylbenzene			50.0	45.8		ug/L		92	70 - 130	4	30
m,p-Xylenes			50.0	52.5		ug/L		105	70 - 130	2	30
Methyl acetate			100	89.7		ug/L		90	67 - 120	5	30
Methyl tert-butyl ether			50.0	54.9		ug/L		110	70 - 130	11	30
Methylene Chloride			50.0	48.8		ug/L		98	70 - 130	2	30
o-Xylene			50.0	45.8		ug/L		92	70 - 130	2	30
Styrene			50.0	56.5		ug/L		113	70 - 130	2	30
Tetrachloroethene			50.0	52.0		ug/L		104	70 - 130	0	30
Toluene			50.0	53.4		ug/L		107	70 - 130	1	30
trans-1,2-Dichloroethene			50.0	51.3		ug/L		103	70 - 130	3	30
trans-1,3-Dichloropropene			50.0	51.3		ug/L		103	70 - 130	4	30
Trichloroethene			50.0	54.4		ug/L		109	70 - 130	2	30
Trichlorofluoromethane			50.0	48.1		ug/L		96	63 - 142	12	30
Vinyl chloride			50.0	41.7		ug/L		83	66 - 129	4	30
Xylenes, Total			100	98.3		ug/L		98	70 - 130	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 124*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
Dibromofluoromethane (Surr)	*105*		*70 - 130*
Toluene-d8 (Surr)	*115*		*70 - 130*

Lab Sample ID: MB 680-800707/7
Matrix: Water
Analysis Batch: 800707

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/03/23 06:26	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/03/23 06:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/03/23 06:26	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/03/23 06:26	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/03/23 06:26	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/03/23 06:26	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/03/23 06:26	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/03/23 06:26	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/03/23 06:26	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-800707/7
Matrix: Water
Analysis Batch: 800707

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/03/23 06:26	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/03/23 06:26	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/03/23 06:26	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/03/23 06:26	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/03/23 06:26	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/03/23 06:26	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/03/23 06:26	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/03/23 06:26	1
Acetone	3.7	U	10	3.7	ug/L			10/03/23 06:26	1
Benzene	0.27	U	1.0	0.27	ug/L			10/03/23 06:26	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/03/23 06:26	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/03/23 06:26	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/03/23 06:26	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/03/23 06:26	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/03/23 06:26	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/03/23 06:26	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/03/23 06:26	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/03/23 06:26	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/03/23 06:26	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/03/23 06:26	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/03/23 06:26	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/03/23 06:26	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/03/23 06:26	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/03/23 06:26	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/03/23 06:26	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/03/23 06:26	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/03/23 06:26	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/03/23 06:26	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/03/23 06:26	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/03/23 06:26	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/03/23 06:26	1
Styrene	0.27	U	1.0	0.27	ug/L			10/03/23 06:26	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/03/23 06:26	1
Toluene	0.25	U	1.0	0.25	ug/L			10/03/23 06:26	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/03/23 06:26	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/03/23 06:26	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/03/23 06:26	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/03/23 06:26	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/03/23 06:26	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/03/23 06:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 124*		*10/03/23 06:26*	*1*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*10/03/23 06:26*	*1*
Dibromofluoromethane (Surr)	*114*		*70 - 130*		*10/03/23 06:26*	*1*
Toluene-d8 (Surr)	*125*		*70 - 130*		*10/03/23 06:26*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-800707/3
Matrix: Water
Analysis Batch: 800707

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	49.1		ug/L		98	70 - 130
1,1,2,2-Tetrachloroethane	50.0	43.8		ug/L		88	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	53.5		ug/L		107	63 - 141
1,1,2-Trichloroethane	50.0	45.0		ug/L		90	70 - 130
1,1-Dichloroethane	50.0	50.5		ug/L		101	70 - 130
1,1-Dichloroethene	50.0	56.4		ug/L		113	70 - 130
1,2,4-Trichlorobenzene	50.0	52.1		ug/L		104	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	44.2		ug/L		88	70 - 130
1,2-Dibromoethane (EDB)	50.0	48.9		ug/L		98	70 - 130
1,2-Dichlorobenzene	50.0	50.6		ug/L		101	70 - 130
1,2-Dichloroethane	50.0	48.4		ug/L		97	70 - 130
1,2-Dichloropropane	50.0	49.5		ug/L		99	70 - 130
1,3-Dichlorobenzene	50.0	49.6		ug/L		99	70 - 130
1,4-Dichlorobenzene	50.0	50.4		ug/L		101	70 - 130
2-Butanone (MEK)	250	244		ug/L		97	69 - 120
2-Hexanone	250	255		ug/L		102	70 - 130
4-Methyl-2-pentanone	250	219		ug/L		87	68 - 120
Acetone	250	243		ug/L		97	67 - 120
Benzene	50.0	49.1		ug/L		98	70 - 130
Bromodichloromethane	50.0	48.1		ug/L		96	70 - 130
Bromoform	50.0	45.7		ug/L		91	69 - 129
Bromomethane	50.0	54.1		ug/L		108	28 - 192
Carbon disulfide	50.0	51.7		ug/L		103	70 - 130
Carbon tetrachloride	50.0	48.6		ug/L		97	70 - 130
Chlorobenzene	50.0	50.2		ug/L		100	70 - 130
Chloroethane	50.0	50.4		ug/L		101	31 - 213
Chloroform	50.0	51.7		ug/L		103	70 - 130
Chloromethane	50.0	47.6		ug/L		95	59 - 127
cis-1,2-Dichloroethene	50.0	51.8		ug/L		104	70 - 130
cis-1,3-Dichloropropene	50.0	49.8		ug/L		100	70 - 130
Cyclohexane	50.0	50.0		ug/L		100	23 - 175
Dibromochloromethane	50.0	46.8		ug/L		94	70 - 130
Dichlorodifluoromethane	50.0	49.4		ug/L		99	70 - 130
Ethylbenzene	50.0	45.2		ug/L		90	70 - 130
Isopropylbenzene	50.0	46.4		ug/L		93	70 - 130
m,p-Xylenes	50.0	52.4		ug/L		105	70 - 130
Methyl acetate	100	81.4		ug/L		81	67 - 120
Methyl tert-butyl ether	50.0	47.2		ug/L		94	70 - 130
Methylene Chloride	50.0	51.7		ug/L		103	70 - 130
o-Xylene	50.0	46.1		ug/L		92	70 - 130
Styrene	50.0	56.4		ug/L		113	70 - 130
Tetrachloroethene	50.0	51.3		ug/L		103	70 - 130
Toluene	50.0	54.0		ug/L		108	70 - 130
trans-1,2-Dichloroethene	50.0	51.8		ug/L		104	70 - 130
trans-1,3-Dichloropropene	50.0	48.2		ug/L		96	70 - 130
Trichloroethene	50.0	51.6		ug/L		103	70 - 130
Trichlorofluoromethane	50.0	64.1		ug/L		128	63 - 142
Vinyl chloride	50.0	51.3		ug/L		103	66 - 129

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-800707/3
Matrix: Water
Analysis Batch: 800707

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Xylenes, Total			100	98.5		ug/L		99	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 124*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
Dibromofluoromethane (Surr)	*113*		*70 - 130*
Toluene-d8 (Surr)	*114*		*70 - 130*

Lab Sample ID: LCSD 680-800707/4
Matrix: Water
Analysis Batch: 800707

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane			50.0	45.7		ug/L		91	70 - 130	7	30
1,1,2,2-Tetrachloroethane			50.0	46.9		ug/L		94	70 - 130	7	30
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	53.5		ug/L		107	63 - 141	0	30
1,1,2-Trichloroethane			50.0	47.6		ug/L		95	70 - 130	6	30
1,1-Dichloroethane			50.0	51.0		ug/L		102	70 - 130	1	30
1,1-Dichloroethene			50.0	53.7		ug/L		107	70 - 130	5	20
1,2,4-Trichlorobenzene			50.0	51.0		ug/L		102	70 - 130	2	30
1,2-Dibromo-3-Chloropropane			50.0	46.4		ug/L		93	70 - 130	5	30
1,2-Dibromoethane (EDB)			50.0	50.3		ug/L		101	70 - 130	3	30
1,2-Dichlorobenzene			50.0	51.1		ug/L		102	70 - 130	1	30
1,2-Dichloroethane			50.0	48.8		ug/L		98	70 - 130	1	50
1,2-Dichloropropane			50.0	49.6		ug/L		99	70 - 130	0	20
1,3-Dichlorobenzene			50.0	49.0		ug/L		98	70 - 130	1	30
1,4-Dichlorobenzene			50.0	50.5		ug/L		101	70 - 130	0	30
2-Butanone (MEK)			250	263		ug/L		105	69 - 120	8	30
2-Hexanone			250	276		ug/L		110	70 - 130	8	20
4-Methyl-2-pentanone			250	236		ug/L		94	68 - 120	7	30
Acetone			250	243		ug/L		97	67 - 120	0	30
Benzene			50.0	48.3		ug/L		97	70 - 130	2	30
Bromodichloromethane			50.0	48.9		ug/L		98	70 - 130	2	30
Bromoform			50.0	47.4		ug/L		95	69 - 129	4	30
Bromomethane			50.0	53.0		ug/L		106	28 - 192	2	30
Carbon disulfide			50.0	49.5		ug/L		99	70 - 130	4	30
Carbon tetrachloride			50.0	48.1		ug/L		96	70 - 130	1	30
Chlorobenzene			50.0	50.1		ug/L		100	70 - 130	0	30
Chloroethane			50.0	46.5		ug/L		93	31 - 213	8	30
Chloroform			50.0	51.5		ug/L		103	70 - 130	0	30
Chloromethane			50.0	44.5		ug/L		89	59 - 127	7	30
cis-1,2-Dichloroethene			50.0	50.8		ug/L		102	70 - 130	2	30
cis-1,3-Dichloropropene			50.0	50.5		ug/L		101	70 - 130	1	20
Cyclohexane			50.0	48.5		ug/L		97	23 - 175	3	30
Dibromochloromethane			50.0	47.9		ug/L		96	70 - 130	2	30
Dichlorodifluoromethane			50.0	45.5		ug/L		91	70 - 130	8	40
Ethylbenzene			50.0	44.9		ug/L		90	70 - 130	1	20
Isopropylbenzene			50.0	45.8		ug/L		92	70 - 130	1	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-800707/4
Matrix: Water
Analysis Batch: 800707

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m,p-Xylenes			50.0	52.7		ug/L		105	70 - 130	1	30
Methyl acetate			100	86.7		ug/L		87	67 - 120	6	30
Methyl tert-butyl ether			50.0	51.9		ug/L		104	70 - 130	10	30
Methylene Chloride			50.0	51.6		ug/L		103	70 - 130	0	30
o-Xylene			50.0	46.1		ug/L		92	70 - 130	0	30
Styrene			50.0	56.7		ug/L		113	70 - 130	0	30
Tetrachloroethene			50.0	49.4		ug/L		99	70 - 130	4	30
Toluene			50.0	54.1		ug/L		108	70 - 130	0	30
trans-1,2-Dichloroethene			50.0	51.4		ug/L		103	70 - 130	1	30
trans-1,3-Dichloropropene			50.0	49.2		ug/L		98	70 - 130	2	30
Trichloroethene			50.0	52.0		ug/L		104	70 - 130	1	30
Trichlorofluoromethane			50.0	54.9		ug/L		110	63 - 142	15	30
Vinyl chloride			50.0	46.3		ug/L		93	66 - 129	10	30
Xylenes, Total			100	98.8		ug/L		99	70 - 130	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 124*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
Dibromofluoromethane (Surr)	*108*		*70 - 130*
Toluene-d8 (Surr)	*114*		*70 - 130*

GC/MS VOA

Analysis Batch: 800695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-27576-1	LC34-DPT0938-008.0-20230926	Total/NA	Water	8260D	
670-27576-2	LC34-DPT0938-013.0-20230926	Total/NA	Water	8260D	
670-27576-3	LC34-DPT0938-018.0-20230926	Total/NA	Water	8260D	
670-27576-4	LC34-DPT09380-025.0-20230926	Total/NA	Water	8260D	
670-27576-5	LC34-DPT0938-034.0-20230926	Total/NA	Water	8260D	
670-27576-6	LC34-DPT0938-038.0-20230926	Total/NA	Water	8260D	
670-27576-7	LC34-DPT0939-008.0-20230926	Total/NA	Water	8260D	
670-27576-8	LC34-DPT0939-013.0-20230926	Total/NA	Water	8260D	
670-27576-9	LC34-DPT0939-018.0-20230926	Total/NA	Water	8260D	
670-27576-10	LC34-DPT0939-025.0-20230926	Total/NA	Water	8260D	
670-27576-11	LC34-DPT0939-034.0-20230926	Total/NA	Water	8260D	
670-27576-12	LC34-DPT0939-038.0-20230926	Total/NA	Water	8260D	
670-27576-13	LC34-DPT0940-008.0-20230927	Total/NA	Water	8260D	
670-27576-14	LC34-DPT0940-013.0-20230927	Total/NA	Water	8260D	
670-27576-15	LC34-DPT0940-018.0-20230927	Total/NA	Water	8260D	
670-27576-16	LC34-DPT0940-025.0-20230927	Total/NA	Water	8260D	
670-27576-17	LC34-DPT0940-034.0-20230927	Total/NA	Water	8260D	
670-27576-18	LC34-DPT0940-038.0-20230927	Total/NA	Water	8260D	
670-27576-19	LC34-DPT0941-008.0-20230927	Total/NA	Water	8260D	
670-27576-20	LC34-DPT0941-013.0-20230927	Total/NA	Water	8260D	
MB 680-800695/7	Method Blank	Total/NA	Water	8260D	
LCS 680-800695/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-800695/4	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 800707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-27576-21	LC34-DPT0941-018.0-20230927	Total/NA	Water	8260D	
670-27576-22	LC34-DPT0941-025.0-20230927	Total/NA	Water	8260D	
670-27576-23	LC34-DPT0941-034.0-20230927	Total/NA	Water	8260D	
670-27576-24	LC34-DPT0941-038.0-20230927	Total/NA	Water	8260D	
670-27576-25	LC34-DPT0942-008.0-20230927	Total/NA	Water	8260D	
670-27576-26	LC34-DPT0942-013.0-20230927	Total/NA	Water	8260D	
670-27576-27	LC34-DPT0942-018.0-20230927	Total/NA	Water	8260D	
670-27576-28	LC34-DPT0942-025.0-20230927	Total/NA	Water	8260D	
670-27576-29	LC34-DPT0942-034.0-20230927	Total/NA	Water	8260D	
670-27576-30	LC34-DPT0942-038.0-20230927	Total/NA	Water	8260D	
MB 680-800707/7	Method Blank	Total/NA	Water	8260D	
LCS 680-800707/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-800707/4	Lab Control Sample Dup	Total/NA	Water	8260D	

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27576-1
SDG: 670-27576-1

Client Sample ID: LC34-DPT0938-008.0-20230926
Lab Sample ID: 670-27576-1
Date Collected: 09/26/23 14:10
Matrix: Water
Date Received: 09/28/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	800695	Y1S	EET SAV	10/02/23 21:22

Client Sample ID: LC34-DPT0938-013.0-20230926
Lab Sample ID: 670-27576-2
Date Collected: 09/26/23 14:30
Matrix: Water
Date Received: 09/28/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	800695	Y1S	EET SAV	10/02/23 21:42

Client Sample ID: LC34-DPT0938-018.0-20230926
Lab Sample ID: 670-27576-3
Date Collected: 09/26/23 14:45
Matrix: Water
Date Received: 09/28/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		5	800695	Y1S	EET SAV	10/03/23 01:21

Client Sample ID: LC34-DPT09380-025.0-20230926
Lab Sample ID: 670-27576-4
Date Collected: 09/26/23 15:00
Matrix: Water
Date Received: 09/28/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		50	800695	Y1S	EET SAV	10/03/23 01:41

Client Sample ID: LC34-DPT0938-034.0-20230926
Lab Sample ID: 670-27576-5
Date Collected: 09/26/23 15:15
Matrix: Water
Date Received: 09/28/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	800695	Y1S	EET SAV	10/02/23 22:02

Client Sample ID: LC34-DPT0938-038.0-20230926
Lab Sample ID: 670-27576-6
Date Collected: 09/26/23 15:35
Matrix: Water
Date Received: 09/28/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	800695	Y1S	EET SAV	10/02/23 22:22

Client Sample ID: LC34-DPT0939-008.0-20230926
Lab Sample ID: 670-27576-7
Date Collected: 09/26/23 16:10
Matrix: Water
Date Received: 09/28/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		10	800695	Y1S	EET SAV	10/03/23 02:01

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27576-1
SDG: 670-27576-1

Client Sample ID: LC34-DPT0939-013.0-20230926
Lab Sample ID: 670-27576-8
Date Collected: 09/26/23 16:20
Matrix: Water
Date Received: 09/28/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		5	800695	Y1S	EET SAV	10/03/23 02:21

Client Sample ID: LC34-DPT0939-018.0-20230926
Lab Sample ID: 670-27576-9
Date Collected: 09/26/23 16:30
Matrix: Water
Date Received: 09/28/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		10	800695	Y1S	EET SAV	10/03/23 02:41

Client Sample ID: LC34-DPT0939-025.0-20230926
Lab Sample ID: 670-27576-10
Date Collected: 09/26/23 16:45
Matrix: Water
Date Received: 09/28/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		20	800695	Y1S	EET SAV	10/03/23 03:01

Client Sample ID: LC34-DPT0939-034.0-20230926
Lab Sample ID: 670-27576-11
Date Collected: 09/26/23 17:00
Matrix: Water
Date Received: 09/28/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		2	800695	Y1S	EET SAV	10/03/23 03:21

Client Sample ID: LC34-DPT0939-038.0-20230926
Lab Sample ID: 670-27576-12
Date Collected: 09/26/23 17:20
Matrix: Water
Date Received: 09/28/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	800695	Y1S	EET SAV	10/02/23 22:42

Client Sample ID: LC34-DPT0940-008.0-20230927
Lab Sample ID: 670-27576-13
Date Collected: 09/27/23 08:25
Matrix: Water
Date Received: 09/28/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	800695	Y1S	EET SAV	10/02/23 23:02

Client Sample ID: LC34-DPT0940-013.0-20230927
Lab Sample ID: 670-27576-14
Date Collected: 09/27/23 08:40
Matrix: Water
Date Received: 09/28/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	800695	Y1S	EET SAV	10/02/23 23:22

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27576-1
SDG: 670-27576-1

Client Sample ID: LC34-DPT0940-018.0-20230927
Lab Sample ID: 670-27576-15
Date Collected: 09/27/23 09:00
Matrix: Water
Date Received: 09/28/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	800695	Y1S	EET SAV	10/02/23 23:42

Client Sample ID: LC34-DPT0940-025.0-20230927
Lab Sample ID: 670-27576-16
Date Collected: 09/27/23 09:20
Matrix: Water
Date Received: 09/28/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	800695	Y1S	EET SAV	10/03/23 00:02

Client Sample ID: LC34-DPT0940-034.0-20230927
Lab Sample ID: 670-27576-17
Date Collected: 09/27/23 09:40
Matrix: Water
Date Received: 09/28/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	800695	Y1S	EET SAV	10/03/23 00:21

Client Sample ID: LC34-DPT0940-038.0-20230927
Lab Sample ID: 670-27576-18
Date Collected: 09/27/23 10:00
Matrix: Water
Date Received: 09/28/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	800695	Y1S	EET SAV	10/03/23 00:41

Client Sample ID: LC34-DPT0941-008.0-20230927
Lab Sample ID: 670-27576-19
Date Collected: 09/27/23 10:40
Matrix: Water
Date Received: 09/28/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	800695	Y1S	EET SAV	10/03/23 01:01

Client Sample ID: LC34-DPT0941-013.0-20230927
Lab Sample ID: 670-27576-20
Date Collected: 09/27/23 10:55
Matrix: Water
Date Received: 09/28/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		2	800695	Y1S	EET SAV	10/03/23 03:40

Client Sample ID: LC34-DPT0941-018.0-20230927
Lab Sample ID: 670-27576-21
Date Collected: 09/27/23 11:10
Matrix: Water
Date Received: 09/28/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		10	800707	Y1S	EET SAV	10/03/23 10:04

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27576-1
SDG: 670-27576-1

Client Sample ID: LC34-DPT0941-025.0-20230927
Lab Sample ID: 670-27576-22
Date Collected: 09/27/23 11:25
Matrix: Water
Date Received: 09/28/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		10	800707	Y1S	EET SAV	10/03/23 10:24

Client Sample ID: LC34-DPT0941-034.0-20230927
Lab Sample ID: 670-27576-23
Date Collected: 09/27/23 11:40
Matrix: Water
Date Received: 09/28/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	800707	Y1S	EET SAV	10/03/23 07:05

Client Sample ID: LC34-DPT0941-038.0-20230927
Lab Sample ID: 670-27576-24
Date Collected: 09/27/23 12:00
Matrix: Water
Date Received: 09/28/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	800707	Y1S	EET SAV	10/03/23 07:25

Client Sample ID: LC34-DPT0942-008.0-20230927
Lab Sample ID: 670-27576-25
Date Collected: 09/27/23 12:40
Matrix: Water
Date Received: 09/28/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	800707	Y1S	EET SAV	10/03/23 07:45

Client Sample ID: LC34-DPT0942-013.0-20230927
Lab Sample ID: 670-27576-26
Date Collected: 09/27/23 12:55
Matrix: Water
Date Received: 09/28/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	800707	Y1S	EET SAV	10/03/23 08:05

Client Sample ID: LC34-DPT0942-018.0-20230927
Lab Sample ID: 670-27576-27
Date Collected: 09/27/23 13:10
Matrix: Water
Date Received: 09/28/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	800707	Y1S	EET SAV	10/03/23 08:25

Client Sample ID: LC34-DPT0942-025.0-20230927
Lab Sample ID: 670-27576-28
Date Collected: 09/27/23 13:25
Matrix: Water
Date Received: 09/28/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		20	800707	Y1S	EET SAV	10/03/23 10:44

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27576-1
SDG: 670-27576-1

Client Sample ID: LC34-DPT0942-034.0-20230927

Lab Sample ID: 670-27576-29

Date Collected: 09/27/23 13:40
Matrix: Water
Date Received: 09/28/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	800707	Y1S	EET SAV	10/03/23 08:45

Client Sample ID: LC34-DPT0942-038.0-20230927

Lab Sample ID: 670-27576-30

Date Collected: 09/27/23 14:05
Matrix: Water
Date Received: 09/28/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	800707	Y1S	EET SAV	10/03/23 09:05

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27576-1
SDG: 670-27576-1

Laboratory: Eurofins Savannah

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
	AFCEE	SAVLAB	
Alabama	State	41450	06-30-24
ANAB	Dept. of Defense ELAP	L2463	09-22-24
Arkansas DEQ	State	19-015-0	02-01-24
California	State	2939	06-30-24
Florida	NELAP	E87052	06-30-24
Georgia	State	E87052	06-30-24
Georgia (DW)	State	803	06-30-24
Guam	State	19-007R	04-17-24
Hawaii	State	<cert No.>	06-30-24
Illinois	NELAP	200022	11-30-23
Indiana	State	C-GA-02	06-30-24
Iowa	State	353	07-01-25
Kentucky (UST)	State	NA	06-30-24
Louisiana	NELAP	30690	06-30-24
Louisiana (All)	NELAP	30690	06-30-24
Louisiana (DW)	State	LA009	12-31-23
Maine	State	GA00006	09-25-24
Maryland	State	250	12-31-23
Massachusetts	State	M-GA006	06-30-24
Michigan	State	9925	06-30-24
Mississippi	State	<cert No.>	06-30-24
Nebraska	State	NE-OS-7-04	06-30-24
New Jersey	NELAP	GA769	06-30-24
New Mexico	State	GA00006	06-30-24
North Carolina (DW)	State	13701	07-31-24
North Carolina (WW/SW)	State	269	12-31-23
Pennsylvania	NELAP	68-00474	06-30-24
Puerto Rico	State	GA00006	01-01-24
South Carolina	State	98001	06-30-23 *
Tennessee	State	TN02961	06-30-24
Texas	NELAP	T1047004185	11-30-23
Texas	TCEQ Water Supply	T104704185	06-30-24
USDA	US Federal Programs	P330-18-00313	09-03-24
Virginia	NELAP	460161	06-14-24
Wyoming	State	8TMS-L	06-30-23 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27576-1
SDG: 670-27576-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET SAV
5030B	Purge and Trap	SW846	EET SAV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Sample Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27576-1
SDG: 670-27576-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
670-27576-1	LC34-DPT0938-008.0-20230926	Water	09/26/23 14:10	09/28/23 08:00
670-27576-2	LC34-DPT0938-013.0-20230926	Water	09/26/23 14:30	09/28/23 08:00
670-27576-3	LC34-DPT0938-018.0-20230926	Water	09/26/23 14:45	09/28/23 08:00
670-27576-4	LC34-DPT09380-025.0-20230926	Water	09/26/23 15:00	09/28/23 08:00
670-27576-5	LC34-DPT0938-034.0-20230926	Water	09/26/23 15:15	09/28/23 08:00
670-27576-6	LC34-DPT0938-038.0-20230926	Water	09/26/23 15:35	09/28/23 08:00
670-27576-7	LC34-DPT0939-008.0-20230926	Water	09/26/23 16:10	09/28/23 08:00
670-27576-8	LC34-DPT0939-013.0-20230926	Water	09/26/23 16:20	09/28/23 08:00
670-27576-9	LC34-DPT0939-018.0-20230926	Water	09/26/23 16:30	09/28/23 08:00
670-27576-10	LC34-DPT0939-025.0-20230926	Water	09/26/23 16:45	09/28/23 08:00
670-27576-11	LC34-DPT0939-034.0-20230926	Water	09/26/23 17:00	09/28/23 08:00
670-27576-12	LC34-DPT0939-038.0-20230926	Water	09/26/23 17:20	09/28/23 08:00
670-27576-13	LC34-DPT0940-008.0-20230927	Water	09/27/23 08:25	09/28/23 08:00
670-27576-14	LC34-DPT0940-013.0-20230927	Water	09/27/23 08:40	09/28/23 08:00
670-27576-15	LC34-DPT0940-018.0-20230927	Water	09/27/23 09:00	09/28/23 08:00
670-27576-16	LC34-DPT0940-025.0-20230927	Water	09/27/23 09:20	09/28/23 08:00
670-27576-17	LC34-DPT0940-034.0-20230927	Water	09/27/23 09:40	09/28/23 08:00
670-27576-18	LC34-DPT0940-038.0-20230927	Water	09/27/23 10:00	09/28/23 08:00
670-27576-19	LC34-DPT0941-008.0-20230927	Water	09/27/23 10:40	09/28/23 08:00
670-27576-20	LC34-DPT0941-013.0-20230927	Water	09/27/23 10:55	09/28/23 08:00
670-27576-21	LC34-DPT0941-018.0-20230927	Water	09/27/23 11:10	09/28/23 08:00
670-27576-22	LC34-DPT0941-025.0-20230927	Water	09/27/23 11:25	09/28/23 08:00
670-27576-23	LC34-DPT0941-034.0-20230927	Water	09/27/23 11:40	09/28/23 08:00
670-27576-24	LC34-DPT0941-038.0-20230927	Water	09/27/23 12:00	09/28/23 08:00
670-27576-25	LC34-DPT0942-008.0-20230927	Water	09/27/23 12:40	09/28/23 08:00
670-27576-26	LC34-DPT0942-013.0-20230927	Water	09/27/23 12:55	09/28/23 08:00
670-27576-27	LC34-DPT0942-018.0-20230927	Water	09/27/23 13:10	09/28/23 08:00
670-27576-28	LC34-DPT0942-025.0-20230927	Water	09/27/23 13:25	09/28/23 08:00
670-27576-29	LC34-DPT0942-034.0-20230927	Water	09/27/23 13:40	09/28/23 08:00
670-27576-30	LC34-DPT0942-038.0-20230927	Water	09/27/23 14:05	09/28/23 08:00

Tetra Tech, Inc.

CHAIN OF CUSTODY | NUMBER No. 3745 | PAGE 1 OF 3

PROJECT NO: 112G08985	FACILITY: KSC-LC34	PROJECT MANAGER Mark Sonnet	PHONE NUMBER (412) 921-8622	LABORATORY NAME AND CONTACT: Eurofins — Kaitlin Dylnicki
SAMPLERS (SIGNATURE) - Chuck Sorden		FIELD OPERATIONS LEADER Chuck Sorden	PHONE NUMBER (321)591-7580	ADDRESS 481 Newburyport Ave.
		CARRIER/WAYBILL NUMBER		CITY, STATE Altamonte Springs, FL

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

| DATE YEAR 2023 | TIME | SAMPLE ID | LOCATION ID | TOP DEPTH (FT) | BOTTOM DEPTH (FT) | MATRIX (GW, SO, SW, SD, QC, ETC.) | COLLECTION METHOD GRAB (G) COMP (C) | No. OF CONTAINERS | CONTAINER TYPE PLASTIC (P) or GLASS (G) | | | |

Tetra Tech, Inc. CHAIN OF CUSTODY | NUMBER No. 3746 | PAGE 2 OF 3

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G08985	KSC-LC34	Mark Sonnet	(412) 921-8622	Eurofins — Kaitlin Dilnick
SAMPLERS (SIGNATURE)		**FIELD OPERATIONS LEADER**	**PHONE NUMBER**	**ADDRESS**
- Chuck Sorden		Chuck Sorden	(321) 591-7580	481 Newburyport Ave.
		CARRIER/WAYBILL NUMBER		**CITY, STATE**
				Altamonte Springs, FL

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2023	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)									
									G	G								
									PRESERVATIVE USED		HCl/4°C	4°C						
									TYPE OF ANALYSIS		8260D-(MOD) NASA LC34 Custom List	8260D-(MOD) NASA LC34 Custom List						COMMENTS
09/27	0840	LC34-DPT0940-013.0-20230927	80	11	15	GW	G	4	X	X								
	0900	LC34-DPT0940-018.0-20230927		16	20													
	0920	LC34-DPT0940-025.0-20230927		23	27													
	0940	LC34-DPT0940-034.0-20230927		32	36													
	1000	LC34-DPT0940-038.0-20230927	80	36	40													
	1040	LC34-DPT0941-008.0-20230927	91	6	10													
	1055	LC34-DPT0941-013.0-20230927		11	15													
	1110	LC34-DPT0941-018.0-20230927		16	20													
	1125	LC34-DPT0941-025.0-20230927		23	27													
	1140	LC34-DPT0941-034.0-20230927		32	36													
	1200	LC34-DPT0941-038.0-20230927	91	36	40													
	1240	LC34-DPT0942-008.0-20230927	90	6	10													
09/27	1255	LC34-DPT0942-013.0-20230927	90	11	15	GW	G	4	X	X								

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY			1. RECEIVED BY MC	9/28/23	0800
2. RELINQUISHED BY			2. RECEIVED BY		
3. RELINQUISHED BY			3. RECEIVED BY		

COMMENTS 1.7/1.2 1.0/0.5

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY) 4/02R

Tetra Tech, Inc.

CHAIN OF CUSTODY | NUMBER No. 3747 | PAGE 3 OF 3

PROJECT NO: 112G08985	FACILITY: KSC-LC34	PROJECT MANAGER Mark Sonnet	PHONE NUMBER (412) 921-8622	LABORATORY NAME AND CONTACT: Eurofins- Kaitlin Dylnicki
SAMPLERS (SIGNATURE) -Chuck Sorden		FIELD OPERATIONS LEADER Chuck Sorden	PHONE NUMBER (321) 591-7580	ADDRESS 481 Newburyport Ave.
		CARRIER/WAYBILL NUMBER		CITY, STATE Altamonte Springs, FL

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE (YEAR 2023)	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)										
									PRESERVATIVE USED			HCl/4°C	4°C						
									TYPE OF ANALYSIS			8260D-(MOD) NASA LC34 Custom List	8260D-(MOD) NASA LC34 Custom List						COMMENTS
09/27	1310	LC34-DPT0942-018.0-20230927	90	16	20	GW	G	4				x	x						
↓	1325	LC34-DPT0942-025.0-20230927	↓	23	27	↓	↓	↓				↓	↓						
↓	1340	LC34-DPT0942-034.0-20230927	↓	32	36	↓	↓	↓				↓	↓						
09/27	1405	LC34-DPT0942-038.0-20230927	90	36	40	GW	G	4				x	x						

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	09/27/23		1. RECEIVED BY ML	9/28/23	8:00
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS 1.7/1.2 1.0/0.5

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

s-96 FORM NO. TtNUS-001 4/02B 10/5/2023

Eurofins Orlando
481 Newburyport Avenue
Altamonte Springs, FL 32701
Phone: 407-339-5984 Fax: 407-260-6110

Chain of Custody Record

eurofins

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Dylnicki, Kaitlin	Carrier Tracking No(s):	COC No: 670-15963.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: kaitlin.dylnicki@et.eurofinsus.com	State of Origin: Florida	Page: Page 1 of 4
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP - Florida		Job #: 670-27576-1
Address: 5102 LaRoche Avenue, ,	Due Date Requested: 10/10/2023			
City: Savannah	TAT Requested (days):			
State, Zip: GA, 31404				
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	PO #:			
Email:	WO #:			
Project Name: NASA KSC LC34	Project #: 67001156			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D/5030B (MOD) NASA LC34 Custom	8260D/5030B_UP (MOD) NASA LC34 Custom	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
LC34-DPT0938-008.0-20230926 (670-27576-1)	9/26/23	14:10 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0938-013.0-20230926 (670-27576-2)	9/26/23	14:30 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0938-018.0-20230926 (670-27576-3)	9/26/23	14:45 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT09380-025.0-20230926 (670-27576-4)	9/26/23	15:00 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0938-034.0-20230926 (670-27576-5)	9/26/23	15:15 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0938-038.0-20230926 (670-27576-6)	9/26/23	15:35 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0939-008.0-20230926 (670-27576-7)	9/26/23	16:10 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0939-013.0-20230926 (670-27576-8)	9/26/23	16:20 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0939-018.0-20230926 (670-27576-9)	9/26/23	16:30 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		9/28 1300		KQ	9/30/23 0845	
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 6.1/5.9

Ver: 06/08/2021

Eurofins Orlando
481 Newburyport Avenue
Altamonte Springs, FL 32701
Phone: 407-339-5984 Fax: 407-260-6110

Chain of Custody Record

eurofins

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Dylnicki, Kaitlin	Carrier Tracking No(s):	COC No: 670-15963.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: kaitlin.dylnicki@et.eurofinsus.com	State of Origin: Florida	Page: Page 2 of 4
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP - Florida		Job #: 670-27576-1
Address: 5102 LaRoche Avenue, ,	Due Date Requested: 10/10/2023			
City: Savannah	TAT Requested (days):			
State, Zip: GA, 31404				
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	PO #:			
Email:	WO #:			
Project Name: NASA KSC LC34	Project #: 67001156			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D/5030B (MOD) NASA LC34 Custom	8260D/5030B_UP (MOD) NASA LC34 Custom	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
LC34-DPT0939-025.0-20230926 (670-27576-10)	9/26/23	16:45 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0939-034.0-20230926 (670-27576-11)	9/26/23	17:00 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0939-038.0-20230926 (670-27576-12)	9/26/23	17:20 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0940-008.0-20230926 (670-27576-13)	9/27/23	08:25 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0940-013.0-20230926 (670-27576-14)	9/27/23	08:40 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0940-018.0-20230926 (670-27576-15)	9/27/23	09:00 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0940-025.0-20230926 (670-27576-16)	9/27/23	09:20 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0940-034.0-20230926 (670-27576-17)	9/27/23	09:40 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0940-038.0-20230926 (670-27576-18)	9/27/23	10:00 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	9/28 1300		KR	9/30/23 0845	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 6.1/5.9

Ver: 06/08/2021

Eurofins Orlando
481 Newburyport Avenue
Altamonte Springs, FL 32701
Phone: 407-339-5984 Fax: 407-260-6110

Chain of Custody Record

eurofins

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Dylnicki, Kaitlin	Carrier Tracking No(s):	COC No: 670-15963.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: kaitlin.dylnicki@et.eurofinsus.com	State of Origin: Florida	Page: Page 3 of 4
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP - Florida		Job #: 670-27576-1
Address: 5102 LaRoche Avenue, ,	Due Date Requested: 10/10/2023			
City: Savannah	TAT Requested (days):			
State, Zip: GA, 31404				
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	PO #:			
Email:	WO #:			
Project Name: NASA KSC LC34	Project #: 67001156			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D/5030B (MOD) NASA LC34 Custom	8260D/5030B_UP (MOD) NASA LC34 Custom	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
LC34-DPT0941-008.0-20230926 (670-27576-19)	9/27/23	10:40 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0941-013.0-20230926 (670-27576-20)	9/27/23	10:55 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0941-018.0-20230926 (670-27576-21)	9/27/23	11:10 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0941-025.0-20230926 (670-27576-22)	9/27/23	11:25 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0941-034.0-20230926 (670-27576-23)	9/27/23	11:40 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0941-038.0-20230926 (670-27576-24)	9/27/23	12:00 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0942-008.0-20230926 (670-27576-25)	9/27/23	12:40 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0942-013.0-20230926 (670-27576-26)	9/27/23	12:55 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0942-018.0-20230926 (670-27576-27)	9/27/23	13:10 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For _____ Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	9/28 1300			9/30/23 0845	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 6.5|5.9

Ver: 06/08/2021

Eurofins Orlando
481 Newburyport Avenue
Altamonte Springs, FL 32701
Phone: 407-339-5984 Fax: 407-260-6110

Chain of Custody Record

eurofins

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Dylnicki, Kaitlin	Carrier Tracking No(s):	COC No: 670-15963.4
Client Contact: Shipping/Receiving	Phone:	E-Mail: kaitlin.dylnicki@et.eurofinsus.com	State of Origin: Florida	Page: Page 4 of 4
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP - Florida		Job #: 670-27576-1
Address: 5102 LaRoche Avenue, ,	Due Date Requested: 10/10/2023			
City: Savannah	TAT Requested (days):			
State, Zip: GA, 31404				
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	PO #:			
Email:	WO #:			
Project Name: NASA KSC LC34	Project #: 67001156			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D/5030B (MOD) NASA LC34 Custom	8260D/5030B_UP (MOD) NASA LC34 Custom	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
LC34-DPT0942-025.0-20230926 (670-27576-28)	9/27/23	13:25 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0942-034.0-20230926 (670-27576-29)	9/27/23	13:40 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0942-038.0-20230926 (670-27576-30)	9/27/23	14:05 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	9/28 1300		KB	9/30/23 0845	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 6.1/5.9

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 670-27576-1
SDG Number: 670-27576-1

Login Number: 27576
List Number: 1
Creator: Clerisier, Meline

List Source: Eurofins Orlando

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 670-27576-1
SDG Number: 670-27576-1

Login Number: 27576
List Number: 2
Creator: Harley, Tynisha

List Source: Eurofins Savannah
List Creation: 09/29/23 01:27 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Mark Jonnet
Tetra Tech, Inc.
Foster Plaza 7
661 Anderson Drive
Suite 200
Pittsburgh, Pennsylvania 15220-2745

Generated 10/16/2023 5:31:09 PM

JOB DESCRIPTION

NASA KSC LC34 DPT
SDG NUMBER 670-27652-1

JOB NUMBER

670-27652-1

Eurofins Orlando
481 Newburyport Avenue
Altamonte Springs FL 32701

See page two for job notes and contact information.

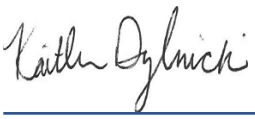
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Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization



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Definitions/Glossary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27652-1
SDG: 670-27652-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J1	Estimated value; value may not be accurate. Surrogate recovery outside of criteria.
U	Indicates that the compound was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 670-27652-1

Laboratory: Eurofins Orlando

Narrative

Job Narrative
Client: Tetra Tech
Client PM: Mark Jonnet
Project: NASA KSC LC34
Project Number: 112G08985
670-27652-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 9/29/2023 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.9°C

GC/MS VOA
Method 8260D: Surrogate recovery for the following samples were outside control limits due to possible matrix interference: LC34-DPT0943-034.0-20230928 (670-27652-5), LC34-DPT0944-025.0-20230928 (670-27652-10), LC34-DPT0945-008.0-20230928 (670-27652-13), LC34-DPT0945-025.0-20230928 (670-27652-16), LC34-DPT0945-034.0-20230928 (670-27652-17), LC34-DPT0945-038.0-20230928 (670-27652-18), LC34-DPT0946-008.0-20230928 (670-27652-19), LC34-DPT0946-013.0-20230928 (670-27652-20) and LC34-DPT0946-025.0-20230928 (670-27652-22).

Method 8260D: The continuing calibration verification (CCV) associated with batch 680-800818 recovered above the upper control limit for Trichlorofluoromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260D: The continuing calibration verification (CCV) associated with batch 680-800818 recovered outside acceptance criteria, low biased, for Methyl acetate. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

Method 8260D: The following samples were diluted to bring the concentration of target analytes within the calibration range: LC34-DPT0943-034.0-20230928 (670-27652-5), LC34-DPT0944-018.0-20230928 (670-27652-9) and LC34-DPT0944-034.0-20230928 (670-27652-11). Elevated reporting limits (RLs) are provided.

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-800818.

Method 8260D: The continuing calibration verification (CCV) associated with batch 680-800978 recovered above the upper control limit for Bromomethane and Chloroethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-800978.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27652-1
SDG: 670-27652-1

Client Sample ID: LC34-DPT0943-008.0-20230927 — Lab Sample ID: 670-27652-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	1.3	I	2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	4.8		1.0	0.25	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	0.74	I	1.0	0.34	ug/L	1		8260D	Total/NA
Vinyl chloride	7.6		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0943-013.0-20230927 — Lab Sample ID: 670-27652-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	1.2	I	2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	21		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	31		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0943-018.0-20230927 — Lab Sample ID: 670-27652-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	7.2		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	16		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0943-025.0-20230927 — Lab Sample ID: 670-27652-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	10		1.0	0.25	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	1.1		1.0	0.34	ug/L	1		8260D	Total/NA
Vinyl chloride	41		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0943-034.0-20230928 — Lab Sample ID: 670-27652-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	5.3	I	10	2.5	ug/L	10		8260D	Total/NA
trans-1,2-Dichloroethene	60		10	3.4	ug/L	10		8260D	Total/NA
Vinyl chloride	1200		10	4.0	ug/L	10		8260D	Total/NA

Client Sample ID: LC34-DPT0943-038.0-20230928 — Lab Sample ID: 670-27652-6

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	2.7		2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	21		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	12		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0944-008.0-20230928 — Lab Sample ID: 670-27652-7

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	20		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	28		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0944-013.0-20230928 — Lab Sample ID: 670-27652-8

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.91	I	2.0	0.43	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	1.9		1.0	0.34	ug/L	1		8260D	Total/NA
Vinyl chloride	170		1.0	0.40	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene - DL	180		2.0	0.50	ug/L	2		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27652-1
SDG: 670-27652-1

Client Sample ID: LC34-DPT0944-018.0-20230928 — Lab Sample ID: 670-27652-9

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	360		5.0	1.3	ug/L	5		8260D	Total/NA
trans-1,2-Dichloroethene	2.1	I	5.0	1.7	ug/L	5		8260D	Total/NA
Vinyl chloride	230		5.0	2.0	ug/L	5		8260D	Total/NA

Client Sample ID: LC34-DPT0944-025.0-20230928 — Lab Sample ID: 670-27652-10

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	1.0	I	2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	11		1.0	0.25	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	0.96	I	1.0	0.34	ug/L	1		8260D	Total/NA
Vinyl chloride	31		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0944-034.0-20230928 — Lab Sample ID: 670-27652-11

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	7.9	I	10	2.5	ug/L	10		8260D	Total/NA
trans-1,2-Dichloroethene	27		10	3.4	ug/L	10		8260D	Total/NA
Vinyl chloride	900		10	4.0	ug/L	10		8260D	Total/NA

Client Sample ID: LC34-DPT0944-038.0-20230928 — Lab Sample ID: 670-27652-12

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	1.0	I	2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	37		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	18		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0945-008.0-20230928 — Lab Sample ID: 670-27652-13

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.94	I	2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	23		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	36		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0945-013.0-20230928 — Lab Sample ID: 670-27652-14

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	26		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	43		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0945-018.0-20230928 — Lab Sample ID: 670-27652-15

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	79		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	88		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0945-025.0-20230928 — Lab Sample ID: 670-27652-16

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	16		1.0	0.25	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	0.38	I	1.0	0.34	ug/L	1		8260D	Total/NA
Vinyl chloride	23		1.0	0.40	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27652-1
SDG: 670-27652-1

Client Sample ID: LC34-DPT0945-034.0-20230928 — Lab Sample ID: 670-27652-17

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	1.1	I	2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	7.5		1.0	0.25	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	15		1.0	0.34	ug/L	1		8260D	Total/NA
Vinyl chloride	17		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0945-038.0-20230928 — Lab Sample ID: 670-27652-18

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	1.1	I	2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.55	I	1.0	0.25	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0946-008.0-20230928 — Lab Sample ID: 670-27652-19

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	16		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	32		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0946-013.0-20230928 — Lab Sample ID: 670-27652-20

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.68	I	2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	16		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	48		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0946-018.0-20230928 — Lab Sample ID: 670-27652-21

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.91	I	2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	60		1.0	0.25	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	0.86	I	1.0	0.34	ug/L	1		8260D	Total/NA
Vinyl chloride	96		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0946-025.0-20230928 — Lab Sample ID: 670-27652-22

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	3.9		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	5.7		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0946-034.0-20230928 — Lab Sample ID: 670-27652-23

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	2.0		2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	120		1.0	0.25	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	10		1.0	0.34	ug/L	1		8260D	Total/NA
Vinyl chloride	200		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0946-038.0-20230928 — Lab Sample ID: 670-27652-24

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	67		1.0	0.25	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	0.59	I	1.0	0.34	ug/L	1		8260D	Total/NA
Vinyl chloride	17		1.0	0.40	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27652-1
SDG: 670-27652-1

Client Sample ID: LC34-DPT0943-008.0-20230927
Date Collected: 09/27/23 14:50
Date Received: 09/29/23 08:00

Lab Sample ID: 670-27652-1
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/04/23 16:01	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/04/23 16:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/04/23 16:01	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/04/23 16:01	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/04/23 16:01	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/04/23 16:01	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/04/23 16:01	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/04/23 16:01	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/04/23 16:01	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/04/23 16:01	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/04/23 16:01	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/04/23 16:01	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/04/23 16:01	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/04/23 16:01	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/04/23 16:01	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/04/23 16:01	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/04/23 16:01	1
Acetone	3.7	U	10	3.7	ug/L			10/04/23 16:01	1
Benzene	0.27	U	1.0	0.27	ug/L			10/04/23 16:01	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/04/23 16:01	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/04/23 16:01	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/04/23 16:01	1
Carbon disulfide	**1.3**	**I**	2.0	0.43	ug/L			10/04/23 16:01	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/04/23 16:01	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/04/23 16:01	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/04/23 16:01	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/04/23 16:01	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/04/23 16:01	1
cis-1,2-Dichloroethene	**4.8**		1.0	0.25	ug/L			10/04/23 16:01	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/04/23 16:01	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/04/23 16:01	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/04/23 16:01	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/04/23 16:01	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/04/23 16:01	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/04/23 16:01	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/04/23 16:01	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/04/23 16:01	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/04/23 16:01	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/04/23 16:01	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/04/23 16:01	1
Styrene	0.27	U	1.0	0.27	ug/L			10/04/23 16:01	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/04/23 16:01	1
Toluene	0.25	U	1.0	0.25	ug/L			10/04/23 16:01	1
trans-1,2-Dichloroethene	**0.74**	**I**	1.0	0.34	ug/L			10/04/23 16:01	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/04/23 16:01	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/04/23 16:01	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/04/23 16:01	1
Vinyl chloride	**7.6**		1.0	0.40	ug/L			10/04/23 16:01	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/04/23 16:01	1

Client Sample ID: LC34-DPT0943-008.0-20230927

Lab Sample ID: 670-27652-1

Date Collected: 09/27/23 14:50
Matrix: Water
Date Received: 09/29/23 08:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*		*10/04/23 16:01*	*1*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*10/04/23 16:01*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*10/04/23 16:01*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*10/04/23 16:01*	*1*

Client Sample ID: LC34-DPT0943-013.0-20230927

Lab Sample ID: 670-27652-2

Date Collected: 09/27/23 15:05
Matrix: Water
Date Received: 09/29/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/03/23 17:12	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/03/23 17:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/03/23 17:12	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/03/23 17:12	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/03/23 17:12	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/03/23 17:12	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/03/23 17:12	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/03/23 17:12	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/03/23 17:12	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/03/23 17:12	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/03/23 17:12	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/03/23 17:12	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/03/23 17:12	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/03/23 17:12	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/03/23 17:12	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/03/23 17:12	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/03/23 17:12	1
Acetone	3.7	U	10	3.7	ug/L			10/03/23 17:12	1
Benzene	0.27	U	1.0	0.27	ug/L			10/03/23 17:12	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/03/23 17:12	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/03/23 17:12	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/03/23 17:12	1
Carbon disulfide	**1.2**	**I**	2.0	0.43	ug/L			10/03/23 17:12	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/03/23 17:12	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/03/23 17:12	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/03/23 17:12	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/03/23 17:12	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/03/23 17:12	1
cis-1,2-Dichloroethene	**21**		1.0	0.25	ug/L			10/03/23 17:12	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/03/23 17:12	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/03/23 17:12	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/03/23 17:12	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/03/23 17:12	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/03/23 17:12	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/03/23 17:12	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/03/23 17:12	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/03/23 17:12	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/03/23 17:12	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/03/23 17:12	1

Client Sample ID: LC34-DPT0943-013.0-20230927 — **Lab Sample ID: 670-27652-2**
Date Collected: 09/27/23 15:05 — **Matrix: Water**
Date Received: 09/29/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	0.26	U	1.0	0.26	ug/L			10/03/23 17:12	1
Styrene	0.27	U	1.0	0.27	ug/L			10/03/23 17:12	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/03/23 17:12	1
Toluene	0.25	U	1.0	0.25	ug/L			10/03/23 17:12	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/03/23 17:12	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/03/23 17:12	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/03/23 17:12	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/03/23 17:12	1
Vinyl chloride	**31**		1.0	0.40	ug/L			10/03/23 17:12	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/03/23 17:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*60 - 124*		*10/03/23 17:12*	*1*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*		*10/03/23 17:12*	*1*
Dibromofluoromethane (Surr)	*126*		*70 - 130*		*10/03/23 17:12*	*1*
Toluene-d8 (Surr)	*120*		*70 - 130*		*10/03/23 17:12*	*1*

Client Sample ID: LC34-DPT0943-018.0-20230927 — **Lab Sample ID: 670-27652-3**
Date Collected: 09/27/23 15:20 — **Matrix: Water**
Date Received: 09/29/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/04/23 16:23	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/04/23 16:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/04/23 16:23	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/04/23 16:23	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/04/23 16:23	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/04/23 16:23	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/04/23 16:23	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/04/23 16:23	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/04/23 16:23	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/04/23 16:23	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/04/23 16:23	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/04/23 16:23	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/04/23 16:23	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/04/23 16:23	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/04/23 16:23	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/04/23 16:23	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/04/23 16:23	1
Acetone	3.7	U	10	3.7	ug/L			10/04/23 16:23	1
Benzene	0.27	U	1.0	0.27	ug/L			10/04/23 16:23	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/04/23 16:23	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/04/23 16:23	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/04/23 16:23	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/04/23 16:23	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/04/23 16:23	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/04/23 16:23	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/04/23 16:23	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/04/23 16:23	1

Client Sample ID: LC34-DPT0943-018.0-20230927

Lab Sample ID: 670-27652-3

Date Collected: 09/27/23 15:20
Matrix: Water
Date Received: 09/29/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	0.54	U	1.0	0.54	ug/L			10/04/23 16:23	1
cis-1,2-Dichloroethene	**7.2**		1.0	0.25	ug/L			10/04/23 16:23	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/04/23 16:23	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/04/23 16:23	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/04/23 16:23	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/04/23 16:23	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/04/23 16:23	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/04/23 16:23	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/04/23 16:23	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/04/23 16:23	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/04/23 16:23	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/04/23 16:23	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/04/23 16:23	1
Styrene	0.27	U	1.0	0.27	ug/L			10/04/23 16:23	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/04/23 16:23	1
Toluene	0.25	U	1.0	0.25	ug/L			10/04/23 16:23	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/04/23 16:23	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/04/23 16:23	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/04/23 16:23	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/04/23 16:23	1
Vinyl chloride	**16**		1.0	0.40	ug/L			10/04/23 16:23	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/04/23 16:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*		*10/04/23 16:23*	*1*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*10/04/23 16:23*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*10/04/23 16:23*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*10/04/23 16:23*	*1*

Client Sample ID: LC34-DPT0943-025.0-20230927

Lab Sample ID: 670-27652-4

Date Collected: 09/27/23 15:40
Matrix: Water
Date Received: 09/29/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/04/23 16:45	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/04/23 16:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/04/23 16:45	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/04/23 16:45	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/04/23 16:45	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/04/23 16:45	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/04/23 16:45	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/04/23 16:45	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/04/23 16:45	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/04/23 16:45	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/04/23 16:45	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/04/23 16:45	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/04/23 16:45	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/04/23 16:45	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/04/23 16:45	1

Client Sample ID: LC34-DPT0943-025.0-20230927

Lab Sample ID: 670-27652-4

Date Collected: 09/27/23 15:40
Matrix: Water
Date Received: 09/29/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	3.2	U	10	3.2	ug/L			10/04/23 16:45	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/04/23 16:45	1
Acetone	3.7	U	10	3.7	ug/L			10/04/23 16:45	1
Benzene	0.27	U	1.0	0.27	ug/L			10/04/23 16:45	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/04/23 16:45	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/04/23 16:45	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/04/23 16:45	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/04/23 16:45	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/04/23 16:45	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/04/23 16:45	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/04/23 16:45	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/04/23 16:45	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/04/23 16:45	1
cis-1,2-Dichloroethene	**10**		1.0	0.25	ug/L			10/04/23 16:45	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/04/23 16:45	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/04/23 16:45	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/04/23 16:45	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/04/23 16:45	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/04/23 16:45	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/04/23 16:45	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/04/23 16:45	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/04/23 16:45	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/04/23 16:45	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/04/23 16:45	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/04/23 16:45	1
Styrene	0.27	U	1.0	0.27	ug/L			10/04/23 16:45	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/04/23 16:45	1
Toluene	0.25	U	1.0	0.25	ug/L			10/04/23 16:45	1
trans-1,2-Dichloroethene	**1.1**		1.0	0.34	ug/L			10/04/23 16:45	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/04/23 16:45	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/04/23 16:45	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/04/23 16:45	1
Vinyl chloride	**41**		1.0	0.40	ug/L			10/04/23 16:45	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/04/23 16:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*		*10/04/23 16:45*	*1*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*10/04/23 16:45*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*10/04/23 16:45*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*10/04/23 16:45*	*1*

Client Sample ID: LC34-DPT0943-034.0-20230928

Lab Sample ID: 670-27652-5

Date Collected: 09/28/23 07:55
Matrix: Water
Date Received: 09/29/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2.1	U	10	2.1	ug/L			10/03/23 18:14	10
1,1,2,2-Tetrachloroethane	4.0	U	10	4.0	ug/L			10/03/23 18:14	10
1,1,2-Trichloro-1,2,2-trifluoroethane	2.3	U	10	2.3	ug/L			10/03/23 18:14	10

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27652-1
SDG: 670-27652-1

Client Sample ID: LC34-DPT0943-034.0-20230928
Date Collected: 09/28/23 07:55
Date Received: 09/29/23 08:00

Lab Sample ID: 670-27652-5
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	3.2	U	10	3.2	ug/L			10/03/23 18:14	10
1,1-Dichloroethane	3.3	U	10	3.3	ug/L			10/03/23 18:14	10
1,1-Dichloroethene	3.3	U	10	3.3	ug/L			10/03/23 18:14	10
1,2,4-Trichlorobenzene	5.3	U	50	5.3	ug/L			10/03/23 18:14	10
1,2-Dibromo-3-Chloropropane	18	U	50	18	ug/L			10/03/23 18:14	10
1,2-Dibromoethane (EDB)	3.3	U	10	3.3	ug/L			10/03/23 18:14	10
1,2-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/03/23 18:14	10
1,2-Dichloroethane	2.5	U	10	2.5	ug/L			10/03/23 18:14	10
1,2-Dichloropropane	2.2	U	10	2.2	ug/L			10/03/23 18:14	10
1,3-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/03/23 18:14	10
1,4-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/03/23 18:14	10
2-Butanone (MEK)	64	U	100	64	ug/L			10/03/23 18:14	10
2-Hexanone	32	U	100	32	ug/L			10/03/23 18:14	10
4-Methyl-2-pentanone	27	U	100	27	ug/L			10/03/23 18:14	10
Acetone	37	U	100	37	ug/L			10/03/23 18:14	10
Benzene	2.7	U	10	2.7	ug/L			10/03/23 18:14	10
Bromodichloromethane	2.5	U	10	2.5	ug/L			10/03/23 18:14	10
Bromoform	5.9	U	10	5.9	ug/L			10/03/23 18:14	10
Bromomethane	37	U	50	37	ug/L			10/03/23 18:14	10
Carbon disulfide	4.3	U	20	4.3	ug/L			10/03/23 18:14	10
Carbon tetrachloride	3.0	U	10	3.0	ug/L			10/03/23 18:14	10
Chlorobenzene	1.5	U	10	1.5	ug/L			10/03/23 18:14	10
Chloroethane	46	U	50	46	ug/L			10/03/23 18:14	10
Chloroform	2.7	U	10	2.7	ug/L			10/03/23 18:14	10
Chloromethane	5.4	U	10	5.4	ug/L			10/03/23 18:14	10
cis-1,2-Dichloroethene	**5.3**	**I**	10	2.5	ug/L			10/03/23 18:14	10
cis-1,3-Dichloropropene	2.6	U	10	2.6	ug/L			10/03/23 18:14	10
Cyclohexane	2.8	U	10	2.8	ug/L			10/03/23 18:14	10
Dibromochloromethane	3.9	U	10	3.9	ug/L			10/03/23 18:14	10
Dichlorodifluoromethane	3.6	U	10	3.6	ug/L			10/03/23 18:14	10
Ethylbenzene	2.0	U	10	2.0	ug/L			10/03/23 18:14	10
Isopropylbenzene	2.6	U	10	2.6	ug/L			10/03/23 18:14	10
m,p-Xylenes	4.9	U	10	4.9	ug/L			10/03/23 18:14	10
Methyl acetate	32	U	50	32	ug/L			10/03/23 18:14	10
Methyl tert-butyl ether	8.1	U	50	8.1	ug/L			10/03/23 18:14	10
Methylene Chloride	32	U	50	32	ug/L			10/03/23 18:14	10
o-Xylene	2.6	U	10	2.6	ug/L			10/03/23 18:14	10
Styrene	2.7	U	10	2.7	ug/L			10/03/23 18:14	10
Tetrachloroethene	3.5	U	10	3.5	ug/L			10/03/23 18:14	10
Toluene	2.5	U	10	2.5	ug/L			10/03/23 18:14	10
trans-1,2-Dichloroethene	**60**		10	3.4	ug/L			10/03/23 18:14	10
trans-1,3-Dichloropropene	2.3	U	10	2.3	ug/L			10/03/23 18:14	10
Trichloroethene	2.0	U	10	2.0	ug/L			10/03/23 18:14	10
Trichlorofluoromethane	3.3	U	10	3.3	ug/L			10/03/23 18:14	10
Vinyl chloride	**1200**		10	4.0	ug/L			10/03/23 18:14	10
Xylenes, Total	2.3	U	10	2.3	ug/L			10/03/23 18:14	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*60 - 124*		*10/03/23 18:14*	*10*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/03/23 18:14*	*10*

Client Sample ID: LC34-DPT0943-034.0-20230928

Lab Sample ID: 670-27652-5

Date Collected: 09/28/23 07:55
Matrix: Water
Date Received: 09/29/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*131*	*J1*	*70 - 130*		*10/03/23 18:14*	*10*
Toluene-d8 (Surr)	*118*		*70 - 130*		*10/03/23 18:14*	*10*

Client Sample ID: LC34-DPT0943-038.0-20230928

Lab Sample ID: 670-27652-6

Date Collected: 09/28/23 08:20
Matrix: Water
Date Received: 09/29/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/03/23 18:34	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/03/23 18:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/03/23 18:34	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/03/23 18:34	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/03/23 18:34	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/03/23 18:34	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/03/23 18:34	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/03/23 18:34	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/03/23 18:34	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/03/23 18:34	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/03/23 18:34	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/03/23 18:34	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/03/23 18:34	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/03/23 18:34	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/03/23 18:34	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/03/23 18:34	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/03/23 18:34	1
Acetone	3.7	U	10	3.7	ug/L			10/03/23 18:34	1
Benzene	0.27	U	1.0	0.27	ug/L			10/03/23 18:34	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/03/23 18:34	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/03/23 18:34	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/03/23 18:34	1
Carbon disulfide	**2.7**		2.0	0.43	ug/L			10/03/23 18:34	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/03/23 18:34	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/03/23 18:34	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/03/23 18:34	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/03/23 18:34	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/03/23 18:34	1
cis-1,2-Dichloroethene	**21**		1.0	0.25	ug/L			10/03/23 18:34	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/03/23 18:34	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/03/23 18:34	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/03/23 18:34	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/03/23 18:34	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/03/23 18:34	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/03/23 18:34	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/03/23 18:34	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/03/23 18:34	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/03/23 18:34	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/03/23 18:34	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/03/23 18:34	1

Client Sample ID: LC34-DPT0943-038.0-20230928

Lab Sample ID: 670-27652-6

Date Collected: 09/28/23 08:20
Matrix: Water
Date Received: 09/29/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.27	U	1.0	0.27	ug/L			10/03/23 18:34	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/03/23 18:34	1
Toluene	0.25	U	1.0	0.25	ug/L			10/03/23 18:34	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/03/23 18:34	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/03/23 18:34	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/03/23 18:34	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/03/23 18:34	1
Vinyl chloride	12		1.0	0.40	ug/L			10/03/23 18:34	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/03/23 18:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*60 - 124*		*10/03/23 18:34*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/03/23 18:34*	*1*
Dibromofluoromethane (Surr)	*130*		*70 - 130*		*10/03/23 18:34*	*1*
Toluene-d8 (Surr)	*120*		*70 - 130*		*10/03/23 18:34*	*1*

Client Sample ID: LC34-DPT0944-008.0-20230928

Lab Sample ID: 670-27652-7

Date Collected: 09/28/23 09:00
Matrix: Water
Date Received: 09/29/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/04/23 17:07	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/04/23 17:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/04/23 17:07	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/04/23 17:07	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/04/23 17:07	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/04/23 17:07	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/04/23 17:07	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/04/23 17:07	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/04/23 17:07	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/04/23 17:07	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/04/23 17:07	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/04/23 17:07	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/04/23 17:07	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/04/23 17:07	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/04/23 17:07	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/04/23 17:07	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/04/23 17:07	1
Acetone	3.7	U	10	3.7	ug/L			10/04/23 17:07	1
Benzene	0.27	U	1.0	0.27	ug/L			10/04/23 17:07	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/04/23 17:07	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/04/23 17:07	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/04/23 17:07	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/04/23 17:07	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/04/23 17:07	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/04/23 17:07	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/04/23 17:07	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/04/23 17:07	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/04/23 17:07	1

Client Sample ID: LC34-DPT0944-008.0-20230928

Lab Sample ID: 670-27652-7

Date Collected: 09/28/23 09:00
Matrix: Water
Date Received: 09/29/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**20**		1.0	0.25	ug/L			10/04/23 17:07	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/04/23 17:07	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/04/23 17:07	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/04/23 17:07	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/04/23 17:07	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/04/23 17:07	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/04/23 17:07	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/04/23 17:07	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/04/23 17:07	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/04/23 17:07	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/04/23 17:07	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/04/23 17:07	1
Styrene	0.27	U	1.0	0.27	ug/L			10/04/23 17:07	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/04/23 17:07	1
Toluene	0.25	U	1.0	0.25	ug/L			10/04/23 17:07	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/04/23 17:07	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/04/23 17:07	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/04/23 17:07	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/04/23 17:07	1
Vinyl chloride	**28**		1.0	0.40	ug/L			10/04/23 17:07	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/04/23 17:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*		*10/04/23 17:07*	*1*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*10/04/23 17:07*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*10/04/23 17:07*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*10/04/23 17:07*	*1*

Client Sample ID: LC34-DPT0944-013.0-20230928

Lab Sample ID: 670-27652-8

Date Collected: 09/28/23 09:15
Matrix: Water
Date Received: 09/29/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/03/23 19:14	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/03/23 19:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/03/23 19:14	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/03/23 19:14	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/03/23 19:14	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/03/23 19:14	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/03/23 19:14	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/03/23 19:14	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/03/23 19:14	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/03/23 19:14	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/03/23 19:14	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/03/23 19:14	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/03/23 19:14	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/03/23 19:14	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/03/23 19:14	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/03/23 19:14	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27652-1
SDG: 670-27652-1

Client Sample ID: LC34-DPT0944-013.0-20230928
Date Collected: 09/28/23 09:15
Date Received: 09/29/23 08:00

Lab Sample ID: 670-27652-8
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/03/23 19:14	1
Acetone	3.7	U	10	3.7	ug/L			10/03/23 19:14	1
Benzene	0.27	U	1.0	0.27	ug/L			10/03/23 19:14	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/03/23 19:14	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/03/23 19:14	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/03/23 19:14	1
Carbon disulfide	**0.91**	**I**	2.0	0.43	ug/L			10/03/23 19:14	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/03/23 19:14	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/03/23 19:14	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/03/23 19:14	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/03/23 19:14	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/03/23 19:14	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/03/23 19:14	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/03/23 19:14	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/03/23 19:14	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/03/23 19:14	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/03/23 19:14	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/03/23 19:14	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/03/23 19:14	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/03/23 19:14	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/03/23 19:14	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/03/23 19:14	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/03/23 19:14	1
Styrene	0.27	U	1.0	0.27	ug/L			10/03/23 19:14	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/03/23 19:14	1
Toluene	0.25	U	1.0	0.25	ug/L			10/03/23 19:14	1
trans-1,2-Dichloroethene	**1.9**		1.0	0.34	ug/L			10/03/23 19:14	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/03/23 19:14	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/03/23 19:14	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/03/23 19:14	1
Vinyl chloride	**170**		1.0	0.40	ug/L			10/03/23 19:14	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/03/23 19:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*60 - 124*		*10/03/23 19:14*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*10/03/23 19:14*	*1*
Dibromofluoromethane (Surr)	*122*		*70 - 130*		*10/03/23 19:14*	*1*
Toluene-d8 (Surr)	*116*		*70 - 130*		*10/03/23 19:14*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**180**		2.0	0.50	ug/L			10/04/23 17:28	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*60 - 124*		*10/04/23 17:28*	*2*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*10/04/23 17:28*	*2*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*10/04/23 17:28*	*2*
Toluene-d8 (Surr)	*95*		*70 - 130*		*10/04/23 17:28*	*2*

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27652-1
SDG: 670-27652-1

Client Sample ID: LC34-DPT0944-018.0-20230928
Date Collected: 09/28/23 09:30
Date Received: 09/29/23 08:00

Lab Sample ID: 670-27652-9
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	5.0	1.1	ug/L			10/03/23 19:37	5
1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	ug/L			10/03/23 19:37	5
1,1,2-Trichloro-1,2,2-trifluoroethane	1.2	U	5.0	1.2	ug/L			10/03/23 19:37	5
1,1,2-Trichloroethane	1.6	U	5.0	1.6	ug/L			10/03/23 19:37	5
1,1-Dichloroethane	1.7	U	5.0	1.7	ug/L			10/03/23 19:37	5
1,1-Dichloroethene	1.7	U	5.0	1.7	ug/L			10/03/23 19:37	5
1,2,4-Trichlorobenzene	2.7	U	25	2.7	ug/L			10/03/23 19:37	5
1,2-Dibromo-3-Chloropropane	9.0	U	25	9.0	ug/L			10/03/23 19:37	5
1,2-Dibromoethane (EDB)	1.7	U	5.0	1.7	ug/L			10/03/23 19:37	5
1,2-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/03/23 19:37	5
1,2-Dichloroethane	1.3	U	5.0	1.3	ug/L			10/03/23 19:37	5
1,2-Dichloropropane	1.1	U	5.0	1.1	ug/L			10/03/23 19:37	5
1,3-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/03/23 19:37	5
1,4-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/03/23 19:37	5
2-Butanone (MEK)	32	U	50	32	ug/L			10/03/23 19:37	5
2-Hexanone	16	U	50	16	ug/L			10/03/23 19:37	5
4-Methyl-2-pentanone	14	U	50	14	ug/L			10/03/23 19:37	5
Acetone	19	U	50	19	ug/L			10/03/23 19:37	5
Benzene	1.4	U	5.0	1.4	ug/L			10/03/23 19:37	5
Bromodichloromethane	1.3	U	5.0	1.3	ug/L			10/03/23 19:37	5
Bromoform	3.0	U	5.0	3.0	ug/L			10/03/23 19:37	5
Bromomethane	19	U	25	19	ug/L			10/03/23 19:37	5
Carbon disulfide	2.2	U	10	2.2	ug/L			10/03/23 19:37	5
Carbon tetrachloride	1.5	U	5.0	1.5	ug/L			10/03/23 19:37	5
Chlorobenzene	0.75	U	5.0	0.75	ug/L			10/03/23 19:37	5
Chloroethane	23	U	25	23	ug/L			10/03/23 19:37	5
Chloroform	1.4	U	5.0	1.4	ug/L			10/03/23 19:37	5
Chloromethane	2.7	U	5.0	2.7	ug/L			10/03/23 19:37	5
cis-1,2-Dichloroethene	**360**		5.0	1.3	ug/L			10/03/23 19:37	5
cis-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			10/03/23 19:37	5
Cyclohexane	1.4	U	5.0	1.4	ug/L			10/03/23 19:37	5
Dibromochloromethane	2.0	U	5.0	2.0	ug/L			10/03/23 19:37	5
Dichlorodifluoromethane	1.8	U	5.0	1.8	ug/L			10/03/23 19:37	5
Ethylbenzene	1.0	U	5.0	1.0	ug/L			10/03/23 19:37	5
Isopropylbenzene	1.3	U	5.0	1.3	ug/L			10/03/23 19:37	5
m,p-Xylenes	2.5	U	5.0	2.5	ug/L			10/03/23 19:37	5
Methyl acetate	16	U	25	16	ug/L			10/03/23 19:37	5
Methyl tert-butyl ether	4.1	U	25	4.1	ug/L			10/03/23 19:37	5
Methylene Chloride	16	U	25	16	ug/L			10/03/23 19:37	5
o-Xylene	1.3	U	5.0	1.3	ug/L			10/03/23 19:37	5
Styrene	1.4	U	5.0	1.4	ug/L			10/03/23 19:37	5
Tetrachloroethene	1.8	U	5.0	1.8	ug/L			10/03/23 19:37	5
Toluene	1.3	U	5.0	1.3	ug/L			10/03/23 19:37	5
trans-1,2-Dichloroethene	**2.1**	**I**	5.0	1.7	ug/L			10/03/23 19:37	5
trans-1,3-Dichloropropene	1.2	U	5.0	1.2	ug/L			10/03/23 19:37	5
Trichloroethene	1.0	U	5.0	1.0	ug/L			10/03/23 19:37	5
Trichlorofluoromethane	1.7	U	5.0	1.7	ug/L			10/03/23 19:37	5
Vinyl chloride	**230**		5.0	2.0	ug/L			10/03/23 19:37	5
Xylenes, Total	1.2	U	5.0	1.2	ug/L			10/03/23 19:37	5

Client Sample ID: LC34-DPT0944-018.0-20230928

Lab Sample ID: 670-27652-9

Date Collected: 09/28/23 09:30
Matrix: Water
Date Received: 09/29/23 08:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*109*		*60 - 124*		*10/03/23 19:37*	*5*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/03/23 19:37*	*5*
Dibromofluoromethane (Surr)	*127*		*70 - 130*		*10/03/23 19:37*	*5*
Toluene-d8 (Surr)	*114*		*70 - 130*		*10/03/23 19:37*	*5*

Client Sample ID: LC34-DPT0944-025.0-20230928

Lab Sample ID: 670-27652-10

Date Collected: 09/28/23 09:45
Matrix: Water
Date Received: 09/29/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/03/23 19:57	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/03/23 19:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/03/23 19:57	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/03/23 19:57	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/03/23 19:57	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/03/23 19:57	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/03/23 19:57	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/03/23 19:57	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/03/23 19:57	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/03/23 19:57	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/03/23 19:57	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/03/23 19:57	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/03/23 19:57	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/03/23 19:57	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/03/23 19:57	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/03/23 19:57	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/03/23 19:57	1
Acetone	3.7	U	10	3.7	ug/L			10/03/23 19:57	1
Benzene	0.27	U	1.0	0.27	ug/L			10/03/23 19:57	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/03/23 19:57	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/03/23 19:57	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/03/23 19:57	1
Carbon disulfide	**1.0**	**I**	2.0	0.43	ug/L			10/03/23 19:57	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/03/23 19:57	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/03/23 19:57	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/03/23 19:57	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/03/23 19:57	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/03/23 19:57	1
cis-1,2-Dichloroethene	**11**		1.0	0.25	ug/L			10/03/23 19:57	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/03/23 19:57	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/03/23 19:57	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/03/23 19:57	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/03/23 19:57	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/03/23 19:57	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/03/23 19:57	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/03/23 19:57	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/03/23 19:57	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/03/23 19:57	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/03/23 19:57	1

Client Sample ID: LC34-DPT0944-025.0-20230928 **Lab Sample ID: 670-27652-10**
Date Collected: 09/28/23 09:45 **Matrix: Water**
Date Received: 09/29/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	0.26	U	1.0	0.26	ug/L			10/03/23 19:57	1
Styrene	0.27	U	1.0	0.27	ug/L			10/03/23 19:57	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/03/23 19:57	1
Toluene	0.25	U	1.0	0.25	ug/L			10/03/23 19:57	1
trans-1,2-Dichloroethene	**0.96**	**I**	1.0	0.34	ug/L			10/03/23 19:57	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/03/23 19:57	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/03/23 19:57	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/03/23 19:57	1
Vinyl chloride	**31**		1.0	0.40	ug/L			10/03/23 19:57	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/03/23 19:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*60 - 124*		*10/03/23 19:57*	*1*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*10/03/23 19:57*	*1*
Dibromofluoromethane (Surr)	*133*	*J1*	*70 - 130*		*10/03/23 19:57*	*1*
Toluene-d8 (Surr)	*118*		*70 - 130*		*10/03/23 19:57*	*1*

Client Sample ID: LC34-DPT0944-034.0-20230928 **Lab Sample ID: 670-27652-11**
Date Collected: 09/28/23 10:05 **Matrix: Water**
Date Received: 09/29/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2.1	U	10	2.1	ug/L			10/03/23 20:19	10
1,1,2,2-Tetrachloroethane	4.0	U	10	4.0	ug/L			10/03/23 20:19	10
1,1,2-Trichloro-1,2,2-trifluoroethane	2.3	U	10	2.3	ug/L			10/03/23 20:19	10
1,1,2-Trichloroethane	3.2	U	10	3.2	ug/L			10/03/23 20:19	10
1,1-Dichloroethane	3.3	U	10	3.3	ug/L			10/03/23 20:19	10
1,1-Dichloroethene	3.3	U	10	3.3	ug/L			10/03/23 20:19	10
1,2,4-Trichlorobenzene	5.3	U	50	5.3	ug/L			10/03/23 20:19	10
1,2-Dibromo-3-Chloropropane	18	U	50	18	ug/L			10/03/23 20:19	10
1,2-Dibromoethane (EDB)	3.3	U	10	3.3	ug/L			10/03/23 20:19	10
1,2-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/03/23 20:19	10
1,2-Dichloroethane	2.5	U	10	2.5	ug/L			10/03/23 20:19	10
1,2-Dichloropropane	2.2	U	10	2.2	ug/L			10/03/23 20:19	10
1,3-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/03/23 20:19	10
1,4-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/03/23 20:19	10
2-Butanone (MEK)	64	U	100	64	ug/L			10/03/23 20:19	10
2-Hexanone	32	U	100	32	ug/L			10/03/23 20:19	10
4-Methyl-2-pentanone	27	U	100	27	ug/L			10/03/23 20:19	10
Acetone	37	U	100	37	ug/L			10/03/23 20:19	10
Benzene	2.7	U	10	2.7	ug/L			10/03/23 20:19	10
Bromodichloromethane	2.5	U	10	2.5	ug/L			10/03/23 20:19	10
Bromoform	5.9	U	10	5.9	ug/L			10/03/23 20:19	10
Bromomethane	37	U	50	37	ug/L			10/03/23 20:19	10
Carbon disulfide	4.3	U	20	4.3	ug/L			10/03/23 20:19	10
Carbon tetrachloride	3.0	U	10	3.0	ug/L			10/03/23 20:19	10
Chlorobenzene	1.5	U	10	1.5	ug/L			10/03/23 20:19	10
Chloroethane	46	U	50	46	ug/L			10/03/23 20:19	10
Chloroform	2.7	U	10	2.7	ug/L			10/03/23 20:19	10

Client Sample ID: LC34-DPT0944-034.0-20230928

Lab Sample ID: 670-27652-11

Date Collected: 09/28/23 10:05

Matrix: Water

Date Received: 09/29/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	5.4	U	10	5.4	ug/L			10/03/23 20:19	10
cis-1,2-Dichloroethene	**7.9**	**I**	10	2.5	ug/L			10/03/23 20:19	10
cis-1,3-Dichloropropene	2.6	U	10	2.6	ug/L			10/03/23 20:19	10
Cyclohexane	2.8	U	10	2.8	ug/L			10/03/23 20:19	10
Dibromochloromethane	3.9	U	10	3.9	ug/L			10/03/23 20:19	10
Dichlorodifluoromethane	3.6	U	10	3.6	ug/L			10/03/23 20:19	10
Ethylbenzene	2.0	U	10	2.0	ug/L			10/03/23 20:19	10
Isopropylbenzene	2.6	U	10	2.6	ug/L			10/03/23 20:19	10
m,p-Xylenes	4.9	U	10	4.9	ug/L			10/03/23 20:19	10
Methyl acetate	32	U	50	32	ug/L			10/03/23 20:19	10
Methyl tert-butyl ether	8.1	U	50	8.1	ug/L			10/03/23 20:19	10
Methylene Chloride	32	U	50	32	ug/L			10/03/23 20:19	10
o-Xylene	2.6	U	10	2.6	ug/L			10/03/23 20:19	10
Styrene	2.7	U	10	2.7	ug/L			10/03/23 20:19	10
Tetrachloroethene	3.5	U	10	3.5	ug/L			10/03/23 20:19	10
Toluene	2.5	U	10	2.5	ug/L			10/03/23 20:19	10
trans-1,2-Dichloroethene	**27**		10	3.4	ug/L			10/03/23 20:19	10
trans-1,3-Dichloropropene	2.3	U	10	2.3	ug/L			10/03/23 20:19	10
Trichloroethene	2.0	U	10	2.0	ug/L			10/03/23 20:19	10
Trichlorofluoromethane	3.3	U	10	3.3	ug/L			10/03/23 20:19	10
Vinyl chloride	**900**		10	4.0	ug/L			10/03/23 20:19	10
Xylenes, Total	2.3	U	10	2.3	ug/L			10/03/23 20:19	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*60 - 124*		*10/03/23 20:19*	*10*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/03/23 20:19*	*10*
Dibromofluoromethane (Surr)	*130*		*70 - 130*		*10/03/23 20:19*	*10*
Toluene-d8 (Surr)	*116*		*70 - 130*		*10/03/23 20:19*	*10*

Client Sample ID: LC34-DPT0944-038.0-20230928

Lab Sample ID: 670-27652-12

Date Collected: 09/28/23 10:25

Matrix: Water

Date Received: 09/29/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/03/23 20:39	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/03/23 20:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/03/23 20:39	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/03/23 20:39	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/03/23 20:39	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/03/23 20:39	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/03/23 20:39	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/03/23 20:39	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/03/23 20:39	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/03/23 20:39	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/03/23 20:39	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/03/23 20:39	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/03/23 20:39	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/03/23 20:39	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/03/23 20:39	1

Client Sample ID: LC34-DPT0944-038.0-20230928

Lab Sample ID: 670-27652-12

Date Collected: 09/28/23 10:25
Matrix: Water
Date Received: 09/29/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	3.2	U	10	3.2	ug/L			10/03/23 20:39	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/03/23 20:39	1
Acetone	3.7	U	10	3.7	ug/L			10/03/23 20:39	1
Benzene	0.27	U	1.0	0.27	ug/L			10/03/23 20:39	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/03/23 20:39	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/03/23 20:39	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/03/23 20:39	1
Carbon disulfide	**1.0**	**I**	2.0	0.43	ug/L			10/03/23 20:39	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/03/23 20:39	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/03/23 20:39	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/03/23 20:39	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/03/23 20:39	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/03/23 20:39	1
cis-1,2-Dichloroethene	**37**		1.0	0.25	ug/L			10/03/23 20:39	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/03/23 20:39	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/03/23 20:39	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/03/23 20:39	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/03/23 20:39	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/03/23 20:39	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/03/23 20:39	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/03/23 20:39	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/03/23 20:39	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/03/23 20:39	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/03/23 20:39	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/03/23 20:39	1
Styrene	0.27	U	1.0	0.27	ug/L			10/03/23 20:39	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/03/23 20:39	1
Toluene	0.25	U	1.0	0.25	ug/L			10/03/23 20:39	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/03/23 20:39	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/03/23 20:39	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/03/23 20:39	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/03/23 20:39	1
Vinyl chloride	**18**		1.0	0.40	ug/L			10/03/23 20:39	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/03/23 20:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*60 - 124*		*10/03/23 20:39*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*10/03/23 20:39*	*1*
Dibromofluoromethane (Surr)	*130*		*70 - 130*		*10/03/23 20:39*	*1*
Toluene-d8 (Surr)	*116*		*70 - 130*		*10/03/23 20:39*	*1*

Client Sample ID: LC34-DPT0945-008.0-20230928

Lab Sample ID: 670-27652-13

Date Collected: 09/28/23 11:05
Matrix: Water
Date Received: 09/29/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/03/23 20:59	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/03/23 20:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/03/23 20:59	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27652-1
SDG: 670-27652-1

Client Sample ID: LC34-DPT0945-008.0-20230928
Date Collected: 09/28/23 11:05
Date Received: 09/29/23 08:00

Lab Sample ID: 670-27652-13
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/03/23 20:59	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/03/23 20:59	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/03/23 20:59	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/03/23 20:59	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/03/23 20:59	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/03/23 20:59	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/03/23 20:59	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/03/23 20:59	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/03/23 20:59	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/03/23 20:59	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/03/23 20:59	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/03/23 20:59	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/03/23 20:59	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/03/23 20:59	1
Acetone	3.7	U	10	3.7	ug/L			10/03/23 20:59	1
Benzene	0.27	U	1.0	0.27	ug/L			10/03/23 20:59	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/03/23 20:59	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/03/23 20:59	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/03/23 20:59	1
Carbon disulfide	**0.94**	**I**	2.0	0.43	ug/L			10/03/23 20:59	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/03/23 20:59	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/03/23 20:59	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/03/23 20:59	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/03/23 20:59	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/03/23 20:59	1
cis-1,2-Dichloroethene	**23**		1.0	0.25	ug/L			10/03/23 20:59	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/03/23 20:59	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/03/23 20:59	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/03/23 20:59	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/03/23 20:59	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/03/23 20:59	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/03/23 20:59	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/03/23 20:59	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/03/23 20:59	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/03/23 20:59	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/03/23 20:59	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/03/23 20:59	1
Styrene	0.27	U	1.0	0.27	ug/L			10/03/23 20:59	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/03/23 20:59	1
Toluene	0.25	U	1.0	0.25	ug/L			10/03/23 20:59	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/03/23 20:59	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/03/23 20:59	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/03/23 20:59	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/03/23 20:59	1
Vinyl chloride	**36**		1.0	0.40	ug/L			10/03/23 20:59	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/03/23 20:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*60 - 124*		*10/03/23 20:59*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*10/03/23 20:59*	*1*

Client Sample ID: LC34-DPT0945-008.0-20230928 **Lab Sample ID: 670-27652-13**
Date Collected: 09/28/23 11:05 **Matrix: Water**
Date Received: 09/29/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*132*	*J1*	*70 - 130*		*10/03/23 20:59*	*1*
Toluene-d8 (Surr)	*116*		*70 - 130*		*10/03/23 20:59*	*1*

Client Sample ID: LC34-DPT0945-013.0-20230928 **Lab Sample ID: 670-27652-14**
Date Collected: 09/28/23 11:20 **Matrix: Water**
Date Received: 09/29/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/04/23 17:50	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/04/23 17:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/04/23 17:50	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/04/23 17:50	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/04/23 17:50	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/04/23 17:50	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/04/23 17:50	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/04/23 17:50	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/04/23 17:50	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/04/23 17:50	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/04/23 17:50	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/04/23 17:50	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/04/23 17:50	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/04/23 17:50	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/04/23 17:50	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/04/23 17:50	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/04/23 17:50	1
Acetone	3.7	U	10	3.7	ug/L			10/04/23 17:50	1
Benzene	0.27	U	1.0	0.27	ug/L			10/04/23 17:50	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/04/23 17:50	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/04/23 17:50	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/04/23 17:50	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/04/23 17:50	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/04/23 17:50	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/04/23 17:50	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/04/23 17:50	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/04/23 17:50	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/04/23 17:50	1
cis-1,2-Dichloroethene	**26**		1.0	0.25	ug/L			10/04/23 17:50	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/04/23 17:50	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/04/23 17:50	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/04/23 17:50	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/04/23 17:50	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/04/23 17:50	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/04/23 17:50	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/04/23 17:50	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/04/23 17:50	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/04/23 17:50	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/04/23 17:50	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/04/23 17:50	1

Client Sample ID: LC34-DPT0945-013.0-20230928

Lab Sample ID: 670-27652-14

Date Collected: 09/28/23 11:20
Matrix: Water
Date Received: 09/29/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.27	U	1.0	0.27	ug/L			10/04/23 17:50	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/04/23 17:50	1
Toluene	0.25	U	1.0	0.25	ug/L			10/04/23 17:50	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/04/23 17:50	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/04/23 17:50	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/04/23 17:50	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/04/23 17:50	1
Vinyl chloride	43		1.0	0.40	ug/L			10/04/23 17:50	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/04/23 17:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*		*10/04/23 17:50*	*1*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*10/04/23 17:50*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*10/04/23 17:50*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*10/04/23 17:50*	*1*

Client Sample ID: LC34-DPT0945-018.0-20230928

Lab Sample ID: 670-27652-15

Date Collected: 09/28/23 11:35
Matrix: Water
Date Received: 09/29/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/04/23 18:11	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/04/23 18:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/04/23 18:11	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/04/23 18:11	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/04/23 18:11	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/04/23 18:11	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/04/23 18:11	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/04/23 18:11	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/04/23 18:11	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/04/23 18:11	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/04/23 18:11	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/04/23 18:11	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/04/23 18:11	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/04/23 18:11	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/04/23 18:11	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/04/23 18:11	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/04/23 18:11	1
Acetone	3.7	U	10	3.7	ug/L			10/04/23 18:11	1
Benzene	0.27	U	1.0	0.27	ug/L			10/04/23 18:11	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/04/23 18:11	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/04/23 18:11	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/04/23 18:11	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/04/23 18:11	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/04/23 18:11	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/04/23 18:11	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/04/23 18:11	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/04/23 18:11	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/04/23 18:11	1

Client Sample ID: LC34-DPT0945-018.0-20230928

Lab Sample ID: 670-27652-15

Date Collected: 09/28/23 11:35
Matrix: Water
Date Received: 09/29/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	79		1.0	0.25	ug/L			10/04/23 18:11	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/04/23 18:11	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/04/23 18:11	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/04/23 18:11	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/04/23 18:11	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/04/23 18:11	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/04/23 18:11	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/04/23 18:11	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/04/23 18:11	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/04/23 18:11	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/04/23 18:11	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/04/23 18:11	1
Styrene	0.27	U	1.0	0.27	ug/L			10/04/23 18:11	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/04/23 18:11	1
Toluene	0.25	U	1.0	0.25	ug/L			10/04/23 18:11	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/04/23 18:11	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/04/23 18:11	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/04/23 18:11	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/04/23 18:11	1
Vinyl chloride	88		1.0	0.40	ug/L			10/04/23 18:11	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/04/23 18:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*60 - 124*		*10/04/23 18:11*	*1*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*10/04/23 18:11*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*10/04/23 18:11*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*10/04/23 18:11*	*1*

Client Sample ID: LC34-DPT0945-025.0-20230928

Lab Sample ID: 670-27652-16

Date Collected: 09/28/23 11:50
Matrix: Water
Date Received: 09/29/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/04/23 18:33	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/04/23 18:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/04/23 18:33	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/04/23 18:33	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/04/23 18:33	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/04/23 18:33	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/04/23 18:33	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/04/23 18:33	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/04/23 18:33	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/04/23 18:33	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/04/23 18:33	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/04/23 18:33	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/04/23 18:33	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/04/23 18:33	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/04/23 18:33	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/04/23 18:33	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27652-1
SDG: 670-27652-1

Client Sample ID: LC34-DPT0945-025.0-20230928

Lab Sample ID: 670-27652-16

Date Collected: 09/28/23 11:50
Matrix: Water
Date Received: 09/29/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/04/23 18:33	1
Acetone	3.7	U	10	3.7	ug/L			10/04/23 18:33	1
Benzene	0.27	U	1.0	0.27	ug/L			10/04/23 18:33	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/04/23 18:33	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/04/23 18:33	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/04/23 18:33	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/04/23 18:33	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/04/23 18:33	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/04/23 18:33	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/04/23 18:33	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/04/23 18:33	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/04/23 18:33	1
cis-1,2-Dichloroethene	**16**		1.0	0.25	ug/L			10/04/23 18:33	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/04/23 18:33	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/04/23 18:33	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/04/23 18:33	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/04/23 18:33	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/04/23 18:33	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/04/23 18:33	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/04/23 18:33	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/04/23 18:33	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/04/23 18:33	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/04/23 18:33	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/04/23 18:33	1
Styrene	0.27	U	1.0	0.27	ug/L			10/04/23 18:33	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/04/23 18:33	1
Toluene	0.25	U	1.0	0.25	ug/L			10/04/23 18:33	1
trans-1,2-Dichloroethene	**0.38**	**I**	1.0	0.34	ug/L			10/04/23 18:33	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/04/23 18:33	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/04/23 18:33	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/04/23 18:33	1
Vinyl chloride	**23**		1.0	0.40	ug/L			10/04/23 18:33	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/04/23 18:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*		*10/04/23 18:33*	*1*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*10/04/23 18:33*	*1*
Dibromofluoromethane (Surr)	*95*		*70 - 130*		*10/04/23 18:33*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*10/04/23 18:33*	*1*

Client Sample ID: LC34-DPT0945-034.0-20230928

Lab Sample ID: 670-27652-17

Date Collected: 09/28/23 12:05
Matrix: Water
Date Received: 09/29/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/03/23 22:19	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/03/23 22:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/03/23 22:19	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/03/23 22:19	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27652-1
SDG: 670-27652-1

Client Sample ID: LC34-DPT0945-034.0-20230928
Date Collected: 09/28/23 12:05
Date Received: 09/29/23 08:00

Lab Sample ID: 670-27652-17
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/03/23 22:19	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/03/23 22:19	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/03/23 22:19	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/03/23 22:19	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/03/23 22:19	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/03/23 22:19	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/03/23 22:19	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/03/23 22:19	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/03/23 22:19	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/03/23 22:19	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/03/23 22:19	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/03/23 22:19	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/03/23 22:19	1
Acetone	3.7	U	10	3.7	ug/L			10/03/23 22:19	1
Benzene	0.27	U	1.0	0.27	ug/L			10/03/23 22:19	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/03/23 22:19	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/03/23 22:19	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/03/23 22:19	1
Carbon disulfide	**1.1**	**I**	2.0	0.43	ug/L			10/03/23 22:19	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/03/23 22:19	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/03/23 22:19	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/03/23 22:19	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/03/23 22:19	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/03/23 22:19	1
cis-1,2-Dichloroethene	**7.5**		1.0	0.25	ug/L			10/03/23 22:19	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/03/23 22:19	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/03/23 22:19	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/03/23 22:19	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/03/23 22:19	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/03/23 22:19	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/03/23 22:19	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/03/23 22:19	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/03/23 22:19	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/03/23 22:19	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/03/23 22:19	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/03/23 22:19	1
Styrene	0.27	U	1.0	0.27	ug/L			10/03/23 22:19	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/03/23 22:19	1
Toluene	0.25	U	1.0	0.25	ug/L			10/03/23 22:19	1
trans-1,2-Dichloroethene	**15**		1.0	0.34	ug/L			10/03/23 22:19	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/03/23 22:19	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/03/23 22:19	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/03/23 22:19	1
Vinyl chloride	**17**		1.0	0.40	ug/L			10/03/23 22:19	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/03/23 22:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*60 - 124*		*10/03/23 22:19*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*10/03/23 22:19*	*1*
Dibromofluoromethane (Surr)	*133*	*J1*	*70 - 130*		*10/03/23 22:19*	*1*

Client Sample ID: LC34-DPT0945-034.0-20230928

Lab Sample ID: 670-27652-17

Date Collected: 09/28/23 12:05
Matrix: Water
Date Received: 09/29/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*116*		*70 - 130*		*10/03/23 22:19*	*1*

Client Sample ID: LC34-DPT0945-038.0-20230928

Lab Sample ID: 670-27652-18

Date Collected: 09/28/23 12:25
Matrix: Water
Date Received: 09/29/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/03/23 22:39	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/03/23 22:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/03/23 22:39	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/03/23 22:39	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/03/23 22:39	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/03/23 22:39	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/03/23 22:39	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/03/23 22:39	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/03/23 22:39	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/03/23 22:39	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/03/23 22:39	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/03/23 22:39	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/03/23 22:39	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/03/23 22:39	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/03/23 22:39	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/03/23 22:39	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/03/23 22:39	1
Acetone	3.7	U	10	3.7	ug/L			10/03/23 22:39	1
Benzene	0.27	U	1.0	0.27	ug/L			10/03/23 22:39	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/03/23 22:39	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/03/23 22:39	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/03/23 22:39	1
Carbon disulfide	**1.1**	**I**	2.0	0.43	ug/L			10/03/23 22:39	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/03/23 22:39	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/03/23 22:39	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/03/23 22:39	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/03/23 22:39	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/03/23 22:39	1
cis-1,2-Dichloroethene	**0.55**	**I**	1.0	0.25	ug/L			10/03/23 22:39	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/03/23 22:39	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/03/23 22:39	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/03/23 22:39	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/03/23 22:39	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/03/23 22:39	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/03/23 22:39	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/03/23 22:39	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/03/23 22:39	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/03/23 22:39	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/03/23 22:39	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/03/23 22:39	1
Styrene	0.27	U	1.0	0.27	ug/L			10/03/23 22:39	1

Client Sample ID: LC34-DPT0945-038.0-20230928

Lab Sample ID: 670-27652-18

Date Collected: 09/28/23 12:25
Matrix: Water
Date Received: 09/29/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/03/23 22:39	1
Toluene	0.25	U	1.0	0.25	ug/L			10/03/23 22:39	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/03/23 22:39	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/03/23 22:39	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/03/23 22:39	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/03/23 22:39	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/03/23 22:39	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/03/23 22:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*60 - 124*		*10/03/23 22:39*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*10/03/23 22:39*	*1*
Dibromofluoromethane (Surr)	*132*	*J1*	*70 - 130*		*10/03/23 22:39*	*1*
Toluene-d8 (Surr)	*115*		*70 - 130*		*10/03/23 22:39*	*1*

Client Sample ID: LC34-DPT0946-008.0-20230928

Lab Sample ID: 670-27652-19

Date Collected: 09/28/23 12:55
Matrix: Water
Date Received: 09/29/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/03/23 22:59	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/03/23 22:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/03/23 22:59	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/03/23 22:59	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/03/23 22:59	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/03/23 22:59	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/03/23 22:59	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/03/23 22:59	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/03/23 22:59	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/03/23 22:59	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/03/23 22:59	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/03/23 22:59	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/03/23 22:59	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/03/23 22:59	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/03/23 22:59	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/03/23 22:59	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/03/23 22:59	1
Acetone	3.7	U	10	3.7	ug/L			10/03/23 22:59	1
Benzene	0.27	U	1.0	0.27	ug/L			10/03/23 22:59	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/03/23 22:59	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/03/23 22:59	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/03/23 22:59	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/03/23 22:59	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/03/23 22:59	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/03/23 22:59	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/03/23 22:59	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/03/23 22:59	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/03/23 22:59	1
cis-1,2-Dichloroethene	**16**		1.0	0.25	ug/L			10/03/23 22:59	1

Client Sample ID: LC34-DPT0946-008.0-20230928

Lab Sample ID: 670-27652-19

Date Collected: 09/28/23 12:55
Matrix: Water
Date Received: 09/29/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/03/23 22:59	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/03/23 22:59	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/03/23 22:59	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/03/23 22:59	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/03/23 22:59	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/03/23 22:59	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/03/23 22:59	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/03/23 22:59	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/03/23 22:59	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/03/23 22:59	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/03/23 22:59	1
Styrene	0.27	U	1.0	0.27	ug/L			10/03/23 22:59	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/03/23 22:59	1
Toluene	0.25	U	1.0	0.25	ug/L			10/03/23 22:59	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/03/23 22:59	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/03/23 22:59	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/03/23 22:59	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/03/23 22:59	1
Vinyl chloride	**32**		1.0	0.40	ug/L			10/03/23 22:59	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/03/23 22:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*60 - 124*		*10/03/23 22:59*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*10/03/23 22:59*	*1*
Dibromofluoromethane (Surr)	*132*	*J1*	*70 - 130*		*10/03/23 22:59*	*1*
Toluene-d8 (Surr)	*115*		*70 - 130*		*10/03/23 22:59*	*1*

Client Sample ID: LC34-DPT0946-013.0-20230928

Lab Sample ID: 670-27652-20

Date Collected: 09/28/23 13:10
Matrix: Water
Date Received: 09/29/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/03/23 23:19	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/03/23 23:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/03/23 23:19	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/03/23 23:19	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/03/23 23:19	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/03/23 23:19	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/03/23 23:19	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/03/23 23:19	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/03/23 23:19	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/03/23 23:19	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/03/23 23:19	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/03/23 23:19	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/03/23 23:19	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/03/23 23:19	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/03/23 23:19	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/03/23 23:19	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/03/23 23:19	1

Client Sample ID: LC34-DPT0946-013.0-20230928 — **Lab Sample ID: 670-27652-20**
Date Collected: 09/28/23 13:10 — **Matrix: Water**
Date Received: 09/29/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	3.7	U	10	3.7	ug/L			10/03/23 23:19	1
Benzene	0.27	U	1.0	0.27	ug/L			10/03/23 23:19	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/03/23 23:19	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/03/23 23:19	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/03/23 23:19	1
Carbon disulfide	**0.68**	**I**	2.0	0.43	ug/L			10/03/23 23:19	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/03/23 23:19	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/03/23 23:19	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/03/23 23:19	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/03/23 23:19	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/03/23 23:19	1
cis-1,2-Dichloroethene	**16**		1.0	0.25	ug/L			10/03/23 23:19	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/03/23 23:19	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/03/23 23:19	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/03/23 23:19	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/03/23 23:19	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/03/23 23:19	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/03/23 23:19	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/03/23 23:19	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/03/23 23:19	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/03/23 23:19	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/03/23 23:19	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/03/23 23:19	1
Styrene	0.27	U	1.0	0.27	ug/L			10/03/23 23:19	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/03/23 23:19	1
Toluene	0.25	U	1.0	0.25	ug/L			10/03/23 23:19	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/03/23 23:19	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/03/23 23:19	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/03/23 23:19	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/03/23 23:19	1
Vinyl chloride	**48**		1.0	0.40	ug/L			10/03/23 23:19	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/03/23 23:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*60 - 124*		*10/03/23 23:19*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*10/03/23 23:19*	*1*
Dibromofluoromethane (Surr)	*134*	*J1*	*70 - 130*		*10/03/23 23:19*	*1*
Toluene-d8 (Surr)	*117*		*70 - 130*		*10/03/23 23:19*	*1*

Client Sample ID: LC34-DPT0946-018.0-20230928 — **Lab Sample ID: 670-27652-21**
Date Collected: 09/28/23 13:25 — **Matrix: Water**
Date Received: 09/29/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/03/23 23:39	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/03/23 23:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/03/23 23:39	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/03/23 23:39	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/03/23 23:39	1

Client Sample ID: LC34-DPT0946-018.0-20230928
Date Collected: 09/28/23 13:25
Date Received: 09/29/23 08:00

Lab Sample ID: 670-27652-21
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/03/23 23:39	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/03/23 23:39	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/03/23 23:39	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/03/23 23:39	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/03/23 23:39	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/03/23 23:39	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/03/23 23:39	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/03/23 23:39	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/03/23 23:39	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/03/23 23:39	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/03/23 23:39	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/03/23 23:39	1
Acetone	3.7	U	10	3.7	ug/L			10/03/23 23:39	1
Benzene	0.27	U	1.0	0.27	ug/L			10/03/23 23:39	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/03/23 23:39	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/03/23 23:39	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/03/23 23:39	1
Carbon disulfide	**0.91**	**I**	2.0	0.43	ug/L			10/03/23 23:39	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/03/23 23:39	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/03/23 23:39	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/03/23 23:39	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/03/23 23:39	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/03/23 23:39	1
cis-1,2-Dichloroethene	**60**		1.0	0.25	ug/L			10/03/23 23:39	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/03/23 23:39	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/03/23 23:39	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/03/23 23:39	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/03/23 23:39	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/03/23 23:39	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/03/23 23:39	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/03/23 23:39	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/03/23 23:39	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/03/23 23:39	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/03/23 23:39	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/03/23 23:39	1
Styrene	0.27	U	1.0	0.27	ug/L			10/03/23 23:39	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/03/23 23:39	1
Toluene	0.25	U	1.0	0.25	ug/L			10/03/23 23:39	1
trans-1,2-Dichloroethene	**0.86**	**I**	1.0	0.34	ug/L			10/03/23 23:39	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/03/23 23:39	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/03/23 23:39	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/03/23 23:39	1
Vinyl chloride	**96**		1.0	0.40	ug/L			10/03/23 23:39	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/03/23 23:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*60 - 124*		*10/03/23 23:39*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*10/03/23 23:39*	*1*
Dibromofluoromethane (Surr)	*130*		*70 - 130*		*10/03/23 23:39*	*1*
Toluene-d8 (Surr)	*117*		*70 - 130*		*10/03/23 23:39*	*1*

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27652-1
SDG: 670-27652-1

Client Sample ID: LC34-DPT0946-025.0-20230928
Date Collected: 09/28/23 13:40
Date Received: 09/29/23 08:00

Lab Sample ID: 670-27652-22
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/04/23 18:54	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/04/23 18:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/04/23 18:54	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/04/23 18:54	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/04/23 18:54	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/04/23 18:54	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/04/23 18:54	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/04/23 18:54	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/04/23 18:54	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/04/23 18:54	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/04/23 18:54	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/04/23 18:54	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/04/23 18:54	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/04/23 18:54	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/04/23 18:54	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/04/23 18:54	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/04/23 18:54	1
Acetone	3.7	U	10	3.7	ug/L			10/04/23 18:54	1
Benzene	0.27	U	1.0	0.27	ug/L			10/04/23 18:54	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/04/23 18:54	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/04/23 18:54	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/04/23 18:54	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/04/23 18:54	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/04/23 18:54	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/04/23 18:54	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/04/23 18:54	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/04/23 18:54	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/04/23 18:54	1
cis-1,2-Dichloroethene	**3.9**		1.0	0.25	ug/L			10/04/23 18:54	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/04/23 18:54	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/04/23 18:54	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/04/23 18:54	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/04/23 18:54	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/04/23 18:54	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/04/23 18:54	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/04/23 18:54	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/04/23 18:54	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/04/23 18:54	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/04/23 18:54	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/04/23 18:54	1
Styrene	0.27	U	1.0	0.27	ug/L			10/04/23 18:54	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/04/23 18:54	1
Toluene	0.25	U	1.0	0.25	ug/L			10/04/23 18:54	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/04/23 18:54	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/04/23 18:54	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/04/23 18:54	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/04/23 18:54	1
Vinyl chloride	**5.7**		1.0	0.40	ug/L			10/04/23 18:54	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/04/23 18:54	1

Client Sample ID: LC34-DPT0946-025.0-20230928

Lab Sample ID: 670-27652-22

Date Collected: 09/28/23 13:40
Matrix: Water
Date Received: 09/29/23 08:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*		*10/04/23 18:54*	*1*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*10/04/23 18:54*	*1*
Dibromofluoromethane (Surr)	*95*		*70 - 130*		*10/04/23 18:54*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*10/04/23 18:54*	*1*

Client Sample ID: LC34-DPT0946-034.0-20230928

Lab Sample ID: 670-27652-23

Date Collected: 09/28/23 13:55
Matrix: Water
Date Received: 09/29/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/04/23 00:19	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/04/23 00:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/04/23 00:19	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/04/23 00:19	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/04/23 00:19	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/04/23 00:19	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/04/23 00:19	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/04/23 00:19	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/04/23 00:19	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/04/23 00:19	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/04/23 00:19	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/04/23 00:19	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/04/23 00:19	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/04/23 00:19	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/04/23 00:19	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/04/23 00:19	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/04/23 00:19	1
Acetone	3.7	U	10	3.7	ug/L			10/04/23 00:19	1
Benzene	0.27	U	1.0	0.27	ug/L			10/04/23 00:19	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/04/23 00:19	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/04/23 00:19	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/04/23 00:19	1
Carbon disulfide	**2.0**		2.0	0.43	ug/L			10/04/23 00:19	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/04/23 00:19	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/04/23 00:19	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/04/23 00:19	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/04/23 00:19	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/04/23 00:19	1
cis-1,2-Dichloroethene	**120**		1.0	0.25	ug/L			10/04/23 00:19	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/04/23 00:19	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/04/23 00:19	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/04/23 00:19	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/04/23 00:19	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/04/23 00:19	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/04/23 00:19	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/04/23 00:19	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/04/23 00:19	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/04/23 00:19	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/04/23 00:19	1

Client Sample ID: LC34-DPT0946-034.0-20230928 **Lab Sample ID: 670-27652-23**
Date Collected: 09/28/23 13:55 **Matrix: Water**
Date Received: 09/29/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	0.26	U	1.0	0.26	ug/L			10/04/23 00:19	1
Styrene	0.27	U	1.0	0.27	ug/L			10/04/23 00:19	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/04/23 00:19	1
Toluene	0.25	U	1.0	0.25	ug/L			10/04/23 00:19	1
trans-1,2-Dichloroethene	**10**		1.0	0.34	ug/L			10/04/23 00:19	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/04/23 00:19	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/04/23 00:19	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/04/23 00:19	1
Vinyl chloride	**200**		1.0	0.40	ug/L			10/04/23 00:19	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/04/23 00:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*60 - 124*		*10/04/23 00:19*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*10/04/23 00:19*	*1*
Dibromofluoromethane (Surr)	*127*		*70 - 130*		*10/04/23 00:19*	*1*
Toluene-d8 (Surr)	*115*		*70 - 130*		*10/04/23 00:19*	*1*

Client Sample ID: LC34-DPT0946-038.0-20230928 **Lab Sample ID: 670-27652-24**
Date Collected: 09/28/23 14:15 **Matrix: Water**
Date Received: 09/29/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/04/23 19:16	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/04/23 19:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/04/23 19:16	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/04/23 19:16	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/04/23 19:16	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/04/23 19:16	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/04/23 19:16	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/04/23 19:16	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/04/23 19:16	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/04/23 19:16	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/04/23 19:16	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/04/23 19:16	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/04/23 19:16	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/04/23 19:16	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/04/23 19:16	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/04/23 19:16	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/04/23 19:16	1
Acetone	3.7	U	10	3.7	ug/L			10/04/23 19:16	1
Benzene	0.27	U	1.0	0.27	ug/L			10/04/23 19:16	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/04/23 19:16	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/04/23 19:16	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/04/23 19:16	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/04/23 19:16	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/04/23 19:16	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/04/23 19:16	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/04/23 19:16	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/04/23 19:16	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27652-1
SDG: 670-27652-1

Client Sample ID: LC34-DPT0946-038.0-20230928
Date Collected: 09/28/23 14:15
Date Received: 09/29/23 08:00

Lab Sample ID: 670-27652-24
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	0.54	U	1.0	0.54	ug/L			10/04/23 19:16	1
cis-1,2-Dichloroethene	**67**		1.0	0.25	ug/L			10/04/23 19:16	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/04/23 19:16	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/04/23 19:16	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/04/23 19:16	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/04/23 19:16	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/04/23 19:16	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/04/23 19:16	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/04/23 19:16	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/04/23 19:16	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/04/23 19:16	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/04/23 19:16	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/04/23 19:16	1
Styrene	0.27	U	1.0	0.27	ug/L			10/04/23 19:16	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/04/23 19:16	1
Toluene	0.25	U	1.0	0.25	ug/L			10/04/23 19:16	1
trans-1,2-Dichloroethene	**0.59**	**I**	1.0	0.34	ug/L			10/04/23 19:16	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/04/23 19:16	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/04/23 19:16	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/04/23 19:16	1
Vinyl chloride	**17**		1.0	0.40	ug/L			10/04/23 19:16	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/04/23 19:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*60 - 124*		*10/04/23 19:16*	*1*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*10/04/23 19:16*	*1*
Dibromofluoromethane (Surr)	*95*		*70 - 130*		*10/04/23 19:16*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*10/04/23 19:16*	*1*

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27652-1
SDG: 670-27652-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(60-124)	(70-130)	(70-130)	(70-130)
670-27652-1	LC34-DPT0943-008.0-20230927	94	95	96	96
670-27652-2	LC34-DPT0943-013.0-20230927	107	106	126	120
670-27652-3	LC34-DPT0943-018.0-20230927	95	95	96	96
670-27652-4	LC34-DPT0943-025.0-20230927	95	94	97	96
670-27652-5	LC34-DPT0943-034.0-20230928	108	101	131 J1	118
670-27652-6	LC34-DPT0943-038.0-20230928	108	101	130	120
670-27652-7	LC34-DPT0944-008.0-20230928	95	93	96	97
670-27652-8	LC34-DPT0944-013.0-20230928	106	100	122	116
670-27652-8 - DL	LC34-DPT0944-013.0-20230928	93	93	96	95
670-27652-9	LC34-DPT0944-018.0-20230928	109	101	127	114
670-27652-10	LC34-DPT0944-025.0-20230928	109	103	133 J1	118
670-27652-11	LC34-DPT0944-034.0-20230928	109	101	130	116
670-27652-12	LC34-DPT0944-038.0-20230928	108	100	130	116
670-27652-13	LC34-DPT0945-008.0-20230928	109	100	132 J1	116
670-27652-14	LC34-DPT0945-013.0-20230928	95	93	96	96
670-27652-15	LC34-DPT0945-018.0-20230928	93	93	97	96
670-27652-16	LC34-DPT0945-025.0-20230928	94	93	95	96
670-27652-17	LC34-DPT0945-034.0-20230928	110	100	133 J1	116
670-27652-18	LC34-DPT0945-038.0-20230928	109	102	132 J1	115
670-27652-19	LC34-DPT0946-008.0-20230928	107	99	132 J1	115
670-27652-20	LC34-DPT0946-013.0-20230928	108	99	134 J1	117
670-27652-21	LC34-DPT0946-018.0-20230928	108	99	130	117
670-27652-22	LC34-DPT0946-025.0-20230928	94	94	95	97
670-27652-23	LC34-DPT0946-034.0-20230928	110	102	127	115
670-27652-24	LC34-DPT0946-038.0-20230928	93	93	95	95
LCS 680-800818/3	Lab Control Sample	101	107	100	116
LCS 680-800978/4	Lab Control Sample	97	93	100	99
LCSD 680-800818/4	Lab Control Sample Dup	98	105	100	116
LCSD 680-800978/5	Lab Control Sample Dup	97	94	98	100
MB 680-800818/7	Method Blank	101	105	114	123
MB 680-800978/8	Method Blank	94	95	95	96

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27652-1
SDG: 670-27652-1

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 680-800818/7
Matrix: Water
Analysis Batch: 800818

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/03/23 16:29	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/03/23 16:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/03/23 16:29	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/03/23 16:29	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/03/23 16:29	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/03/23 16:29	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/03/23 16:29	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/03/23 16:29	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/03/23 16:29	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/03/23 16:29	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/03/23 16:29	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/03/23 16:29	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/03/23 16:29	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/03/23 16:29	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/03/23 16:29	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/03/23 16:29	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/03/23 16:29	1
Acetone	3.7	U	10	3.7	ug/L			10/03/23 16:29	1
Benzene	0.27	U	1.0	0.27	ug/L			10/03/23 16:29	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/03/23 16:29	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/03/23 16:29	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/03/23 16:29	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/03/23 16:29	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/03/23 16:29	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/03/23 16:29	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/03/23 16:29	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/03/23 16:29	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/03/23 16:29	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/03/23 16:29	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/03/23 16:29	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/03/23 16:29	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/03/23 16:29	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/03/23 16:29	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/03/23 16:29	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/03/23 16:29	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/03/23 16:29	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/03/23 16:29	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/03/23 16:29	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/03/23 16:29	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/03/23 16:29	1
Styrene	0.27	U	1.0	0.27	ug/L			10/03/23 16:29	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/03/23 16:29	1
Toluene	0.25	U	1.0	0.25	ug/L			10/03/23 16:29	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/03/23 16:29	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/03/23 16:29	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/03/23 16:29	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/03/23 16:29	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/03/23 16:29	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-800818/7
Matrix: Water
Analysis Batch: 800818

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/03/23 16:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 124*		*10/03/23 16:29*	*1*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*10/03/23 16:29*	*1*
Dibromofluoromethane (Surr)	*114*		*70 - 130*		*10/03/23 16:29*	*1*
Toluene-d8 (Surr)	*123*		*70 - 130*		*10/03/23 16:29*	*1*

Lab Sample ID: LCS 680-800818/3
Matrix: Water
Analysis Batch: 800818

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	49.0		ug/L		98	70 - 130
1,1,2,2-Tetrachloroethane	50.0	49.5		ug/L		99	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	58.9		ug/L		118	63 - 141
1,1,2-Trichloroethane	50.0	47.9		ug/L		96	70 - 130
1,1-Dichloroethane	50.0	48.9		ug/L		98	70 - 130
1,1-Dichloroethene	50.0	59.4		ug/L		119	70 - 130
1,2,4-Trichlorobenzene	50.0	52.7		ug/L		105	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	49.1		ug/L		98	70 - 130
1,2-Dibromoethane (EDB)	50.0	49.9		ug/L		100	70 - 130
1,2-Dichlorobenzene	50.0	52.0		ug/L		104	70 - 130
1,2-Dichloroethane	50.0	47.5		ug/L		95	70 - 130
1,2-Dichloropropane	50.0	49.4		ug/L		99	70 - 130
1,3-Dichlorobenzene	50.0	50.7		ug/L		101	70 - 130
1,4-Dichlorobenzene	50.0	51.2		ug/L		102	70 - 130
2-Butanone (MEK)	250	255		ug/L		102	69 - 120
2-Hexanone	250	276		ug/L		110	70 - 130
4-Methyl-2-pentanone	250	239		ug/L		96	68 - 120
Acetone	250	258		ug/L		103	67 - 120
Benzene	50.0	47.9		ug/L		96	70 - 130
Bromodichloromethane	50.0	48.2		ug/L		96	70 - 130
Bromoform	50.0	48.7		ug/L		97	69 - 129
Bromomethane	50.0	47.5		ug/L		95	28 - 192
Carbon disulfide	50.0	50.0		ug/L		100	70 - 130
Carbon tetrachloride	50.0	49.9		ug/L		100	70 - 130
Chlorobenzene	50.0	51.0		ug/L		102	70 - 130
Chloroethane	50.0	48.3		ug/L		97	31 - 213
Chloroform	50.0	49.3		ug/L		99	70 - 130
Chloromethane	50.0	38.7		ug/L		77	59 - 127
cis-1,2-Dichloroethene	50.0	49.0		ug/L		98	70 - 130
cis-1,3-Dichloropropene	50.0	50.3		ug/L		101	70 - 130
Cyclohexane	50.0	52.1		ug/L		104	23 - 175
Dibromochloromethane	50.0	46.7		ug/L		93	70 - 130
Dichlorodifluoromethane	50.0	41.2		ug/L		82	70 - 130
Ethylbenzene	50.0	45.4		ug/L		91	70 - 130
Isopropylbenzene	50.0	45.8		ug/L		92	70 - 130

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-800818/3
Matrix: Water
Analysis Batch: 800818

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
m,p-Xylenes			50.0	51.9		ug/L		104	70 - 130		
Methyl acetate			100	90.2		ug/L		90	67 - 120		
Methyl tert-butyl ether			50.0	54.5		ug/L		109	70 - 130		
Methylene Chloride			50.0	47.7		ug/L		95	70 - 130		
o-Xylene			50.0	45.6		ug/L		91	70 - 130		
Styrene			50.0	55.1		ug/L		110	70 - 130		
Tetrachloroethene			50.0	50.0		ug/L		100	70 - 130		
Toluene			50.0	53.3		ug/L		107	70 - 130		
trans-1,2-Dichloroethene			50.0	51.9		ug/L		104	70 - 130		
trans-1,3-Dichloropropene			50.0	48.4		ug/L		97	70 - 130		
Trichloroethene			50.0	54.0		ug/L		108	70 - 130		
Trichlorofluoromethane			50.0	68.4		ug/L		137	63 - 142		
Vinyl chloride			50.0	43.9		ug/L		88	66 - 129		
Xylenes, Total			100	97.5		ug/L		98	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 124*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
Dibromofluoromethane (Surr)	*100*		*70 - 130*
Toluene-d8 (Surr)	*116*		*70 - 130*

Lab Sample ID: LCSD 680-800818/4
Matrix: Water
Analysis Batch: 800818

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane			50.0	48.9		ug/L		98	70 - 130	0	30
1,1,2,2-Tetrachloroethane			50.0	47.9		ug/L		96	70 - 130	3	30
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	59.4		ug/L		119	63 - 141	1	30
1,1,2-Trichloroethane			50.0	45.2		ug/L		90	70 - 130	6	30
1,1-Dichloroethane			50.0	48.5		ug/L		97	70 - 130	1	30
1,1-Dichloroethene			50.0	58.2		ug/L		116	70 - 130	2	20
1,2,4-Trichlorobenzene			50.0	51.9		ug/L		104	70 - 130	2	30
1,2-Dibromo-3-Chloropropane			50.0	45.5		ug/L		91	70 - 130	8	30
1,2-Dibromoethane (EDB)			50.0	48.3		ug/L		97	70 - 130	3	30
1,2-Dichlorobenzene			50.0	50.8		ug/L		102	70 - 130	2	30
1,2-Dichloroethane			50.0	46.6		ug/L		93	70 - 130	2	50
1,2-Dichloropropane			50.0	48.9		ug/L		98	70 - 130	1	20
1,3-Dichlorobenzene			50.0	49.6		ug/L		99	70 - 130	2	30
1,4-Dichlorobenzene			50.0	50.3		ug/L		101	70 - 130	2	30
2-Butanone (MEK)			250	240		ug/L		96	69 - 120	6	30
2-Hexanone			250	264		ug/L		106	70 - 130	4	20
4-Methyl-2-pentanone			250	227		ug/L		91	68 - 120	5	30
Acetone			250	239		ug/L		96	67 - 120	7	30
Benzene			50.0	48.1		ug/L		96	70 - 130	0	30
Bromodichloromethane			50.0	47.3		ug/L		95	70 - 130	2	30
Bromoform			50.0	47.1		ug/L		94	69 - 129	3	30
Bromomethane			50.0	50.8		ug/L		102	28 - 192	7	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-800818/4
Matrix: Water
Analysis Batch: 800818

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon disulfide			50.0	50.3		ug/L		101	70 - 130	1	30
Carbon tetrachloride			50.0	49.7		ug/L		99	70 - 130	0	30
Chlorobenzene			50.0	51.0		ug/L		102	70 - 130	0	30
Chloroethane			50.0	45.8		ug/L		92	31 - 213	5	30
Chloroform			50.0	48.4		ug/L		97	70 - 130	2	30
Chloromethane			50.0	40.7		ug/L		81	59 - 127	5	30
cis-1,2-Dichloroethene			50.0	48.3		ug/L		97	70 - 130	1	30
cis-1,3-Dichloropropene			50.0	49.7		ug/L		99	70 - 130	1	20
Cyclohexane			50.0	50.8		ug/L		102	23 - 175	2	30
Dibromochloromethane			50.0	45.7		ug/L		91	70 - 130	2	30
Dichlorodifluoromethane			50.0	42.3		ug/L		85	70 - 130	3	40
Ethylbenzene			50.0	45.0		ug/L		90	70 - 130	1	20
Isopropylbenzene			50.0	45.6		ug/L		91	70 - 130	1	30
m,p-Xylenes			50.0	52.1		ug/L		104	70 - 130	0	30
Methyl acetate			100	83.7		ug/L		84	67 - 120	7	30
Methyl tert-butyl ether			50.0	51.6		ug/L		103	70 - 130	6	30
Methylene Chloride			50.0	47.6		ug/L		95	70 - 130	0	30
o-Xylene			50.0	45.2		ug/L		90	70 - 130	1	30
Styrene			50.0	54.5		ug/L		109	70 - 130	1	30
Tetrachloroethene			50.0	50.4		ug/L		101	70 - 130	1	30
Toluene			50.0	52.7		ug/L		105	70 - 130	1	30
trans-1,2-Dichloroethene			50.0	50.2		ug/L		100	70 - 130	3	30
trans-1,3-Dichloropropene			50.0	47.9		ug/L		96	70 - 130	1	30
Trichloroethene			50.0	53.0		ug/L		106	70 - 130	2	30
Trichlorofluoromethane			50.0	69.7		ug/L		139	63 - 142	2	30
Vinyl chloride			50.0	45.5		ug/L		91	66 - 129	4	30
Xylenes, Total			100	97.3		ug/L		97	70 - 130	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 124*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
Dibromofluoromethane (Surr)	*100*		*70 - 130*
Toluene-d8 (Surr)	*116*		*70 - 130*

Lab Sample ID: MB 680-800978/8
Matrix: Water
Analysis Batch: 800978

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/04/23 14:52	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/04/23 14:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/04/23 14:52	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/04/23 14:52	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/04/23 14:52	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/04/23 14:52	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/04/23 14:52	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/04/23 14:52	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/04/23 14:52	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-800978/8
Matrix: Water
Analysis Batch: 800978

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/04/23 14:52	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/04/23 14:52	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/04/23 14:52	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/04/23 14:52	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/04/23 14:52	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/04/23 14:52	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/04/23 14:52	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/04/23 14:52	1
Acetone	3.7	U	10	3.7	ug/L			10/04/23 14:52	1
Benzene	0.27	U	1.0	0.27	ug/L			10/04/23 14:52	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/04/23 14:52	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/04/23 14:52	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/04/23 14:52	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/04/23 14:52	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/04/23 14:52	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/04/23 14:52	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/04/23 14:52	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/04/23 14:52	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/04/23 14:52	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/04/23 14:52	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/04/23 14:52	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/04/23 14:52	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/04/23 14:52	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/04/23 14:52	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/04/23 14:52	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/04/23 14:52	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/04/23 14:52	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/04/23 14:52	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/04/23 14:52	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/04/23 14:52	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/04/23 14:52	1
Styrene	0.27	U	1.0	0.27	ug/L			10/04/23 14:52	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/04/23 14:52	1
Toluene	0.25	U	1.0	0.25	ug/L			10/04/23 14:52	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/04/23 14:52	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/04/23 14:52	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/04/23 14:52	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/04/23 14:52	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/04/23 14:52	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/04/23 14:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*		*10/04/23 14:52*	*1*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*10/04/23 14:52*	*1*
Dibromofluoromethane (Surr)	*95*		*70 - 130*		*10/04/23 14:52*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*10/04/23 14:52*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-800978/4
Matrix: Water
Analysis Batch: 800978

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	50.9		ug/L		102	70 - 130
1,1,2,2-Tetrachloroethane	50.0	49.3		ug/L		99	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	51.2		ug/L		102	63 - 141
1,1,2-Trichloroethane	50.0	48.7		ug/L		97	70 - 130
1,1-Dichloroethane	50.0	49.4		ug/L		99	70 - 130
1,1-Dichloroethene	50.0	48.7		ug/L		97	70 - 130
1,2,4-Trichlorobenzene	50.0	48.5		ug/L		97	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	50.5		ug/L		101	70 - 130
1,2-Dibromoethane (EDB)	50.0	50.5		ug/L		101	70 - 130
1,2-Dichlorobenzene	50.0	49.5		ug/L		99	70 - 130
1,2-Dichloroethane	50.0	51.0		ug/L		102	70 - 130
1,2-Dichloropropane	50.0	48.8		ug/L		98	70 - 130
1,3-Dichlorobenzene	50.0	49.3		ug/L		99	70 - 130
1,4-Dichlorobenzene	50.0	49.5		ug/L		99	70 - 130
2-Butanone (MEK)	250	242		ug/L		97	69 - 120
2-Hexanone	250	257		ug/L		103	70 - 130
4-Methyl-2-pentanone	250	255		ug/L		102	68 - 120
Acetone	250	244		ug/L		98	67 - 120
Benzene	50.0	49.8		ug/L		100	70 - 130
Bromodichloromethane	50.0	49.6		ug/L		99	70 - 130
Bromoform	50.0	51.7		ug/L		103	69 - 129
Bromomethane	50.0	65.6		ug/L		131	28 - 192
Carbon disulfide	50.0	49.4		ug/L		99	70 - 130
Carbon tetrachloride	50.0	51.9		ug/L		104	70 - 130
Chlorobenzene	50.0	49.9		ug/L		100	70 - 130
Chloroethane	50.0	66.9		ug/L		134	31 - 213
Chloroform	50.0	47.3		ug/L		95	70 - 130
Chloromethane	50.0	49.8		ug/L		100	59 - 127
cis-1,2-Dichloroethene	50.0	48.6		ug/L		97	70 - 130
cis-1,3-Dichloropropene	50.0	50.1		ug/L		100	70 - 130
Cyclohexane	50.0	49.5		ug/L		99	23 - 175
Dibromochloromethane	50.0	51.7		ug/L		103	70 - 130
Dichlorodifluoromethane	50.0	52.1		ug/L		104	70 - 130
Ethylbenzene	50.0	49.9		ug/L		100	70 - 130
Isopropylbenzene	50.0	50.7		ug/L		101	70 - 130
m,p-Xylenes	50.0	50.4		ug/L		101	70 - 130
Methyl acetate	100	94.6		ug/L		95	67 - 120
Methyl tert-butyl ether	50.0	49.5		ug/L		99	70 - 130
Methylene Chloride	50.0	47.2		ug/L		94	70 - 130
o-Xylene	50.0	49.5		ug/L		99	70 - 130
Styrene	50.0	50.1		ug/L		100	70 - 130
Tetrachloroethene	50.0	52.0		ug/L		104	70 - 130
Toluene	50.0	49.9		ug/L		100	70 - 130
trans-1,2-Dichloroethene	50.0	48.9		ug/L		98	70 - 130
trans-1,3-Dichloropropene	50.0	49.6		ug/L		99	70 - 130
Trichloroethene	50.0	50.6		ug/L		101	70 - 130
Trichlorofluoromethane	50.0	52.4		ug/L		105	63 - 142
Vinyl chloride	50.0	50.6		ug/L		101	66 - 129

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-800978/4
Matrix: Water
Analysis Batch: 800978

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Xylenes, Total			100	99.9		ug/L		100	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 124*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*
Dibromofluoromethane (Surr)	*100*		*70 - 130*
Toluene-d8 (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 680-800978/5
Matrix: Water
Analysis Batch: 800978

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane			50.0	50.3		ug/L		101	70 - 130	1	30
1,1,2,2-Tetrachloroethane			50.0	51.2		ug/L		102	70 - 130	4	30
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	50.3		ug/L		101	63 - 141	2	30
1,1,2-Trichloroethane			50.0	48.8		ug/L		98	70 - 130	0	30
1,1-Dichloroethane			50.0	49.2		ug/L		98	70 - 130	0	30
1,1-Dichloroethene			50.0	48.8		ug/L		98	70 - 130	0	20
1,2,4-Trichlorobenzene			50.0	49.0		ug/L		98	70 - 130	1	30
1,2-Dibromo-3-Chloropropane			50.0	52.9		ug/L		106	70 - 130	5	30
1,2-Dibromoethane (EDB)			50.0	51.1		ug/L		102	70 - 130	1	30
1,2-Dichlorobenzene			50.0	49.9		ug/L		100	70 - 130	1	30
1,2-Dichloroethane			50.0	50.6		ug/L		101	70 - 130	1	50
1,2-Dichloropropane			50.0	48.7		ug/L		97	70 - 130	0	20
1,3-Dichlorobenzene			50.0	49.0		ug/L		98	70 - 130	1	30
1,4-Dichlorobenzene			50.0	49.6		ug/L		99	70 - 130	0	30
2-Butanone (MEK)			250	264		ug/L		106	69 - 120	9	30
2-Hexanone			250	272		ug/L		109	70 - 130	6	20
4-Methyl-2-pentanone			250	269		ug/L		107	68 - 120	5	30
Acetone			250	256		ug/L		103	67 - 120	5	30
Benzene			50.0	49.3		ug/L		99	70 - 130	1	30
Bromodichloromethane			50.0	50.4		ug/L		101	70 - 130	2	30
Bromoform			50.0	53.0		ug/L		106	69 - 129	2	30
Bromomethane			50.0	57.2		ug/L		114	28 - 192	14	30
Carbon disulfide			50.0	47.3		ug/L		95	70 - 130	4	30
Carbon tetrachloride			50.0	51.4		ug/L		103	70 - 130	1	30
Chlorobenzene			50.0	50.3		ug/L		101	70 - 130	1	30
Chloroethane			50.0	54.5		ug/L		109	31 - 213	20	30
Chloroform			50.0	46.9		ug/L		94	70 - 130	1	30
Chloromethane			50.0	48.3		ug/L		97	59 - 127	3	30
cis-1,2-Dichloroethene			50.0	48.4		ug/L		97	70 - 130	0	30
cis-1,3-Dichloropropene			50.0	50.2		ug/L		100	70 - 130	0	20
Cyclohexane			50.0	49.1		ug/L		98	23 - 175	1	30
Dibromochloromethane			50.0	51.7		ug/L		103	70 - 130	0	30
Dichlorodifluoromethane			50.0	51.5		ug/L		103	70 - 130	1	40
Ethylbenzene			50.0	50.1		ug/L		100	70 - 130	0	20
Isopropylbenzene			50.0	50.8		ug/L		102	70 - 130	0	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-800978/5
Matrix: Water
Analysis Batch: 800978

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m,p-Xylenes			50.0	50.2		ug/L		100	70 - 130	0	30
Methyl acetate			100	98.5		ug/L		98	67 - 120	4	30
Methyl tert-butyl ether			50.0	50.0		ug/L		100	70 - 130	1	30
Methylene Chloride			50.0	47.6		ug/L		95	70 - 130	1	30
o-Xylene			50.0	49.8		ug/L		100	70 - 130	1	30
Styrene			50.0	50.2		ug/L		100	70 - 130	0	30
Tetrachloroethene			50.0	50.8		ug/L		102	70 - 130	2	30
Toluene			50.0	49.8		ug/L		100	70 - 130	0	30
trans-1,2-Dichloroethene			50.0	48.2		ug/L		96	70 - 130	1	30
trans-1,3-Dichloropropene			50.0	50.1		ug/L		100	70 - 130	1	30
Trichloroethene			50.0	50.3		ug/L		101	70 - 130	1	30
Trichlorofluoromethane			50.0	51.6		ug/L		103	63 - 142	1	30
Vinyl chloride			50.0	48.7		ug/L		97	66 - 129	4	30
Xylenes, Total			100	100		ug/L		100	70 - 130	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 124*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
Dibromofluoromethane (Surr)	*98*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

GC/MS VOA

Analysis Batch: 800818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-27652-2	LC34-DPT0943-013.0-20230927	Total/NA	Water	8260D	
670-27652-5	LC34-DPT0943-034.0-20230928	Total/NA	Water	8260D	
670-27652-6	LC34-DPT0943-038.0-20230928	Total/NA	Water	8260D	
670-27652-8	LC34-DPT0944-013.0-20230928	Total/NA	Water	8260D	
670-27652-9	LC34-DPT0944-018.0-20230928	Total/NA	Water	8260D	
670-27652-10	LC34-DPT0944-025.0-20230928	Total/NA	Water	8260D	
670-27652-11	LC34-DPT0944-034.0-20230928	Total/NA	Water	8260D	
670-27652-12	LC34-DPT0944-038.0-20230928	Total/NA	Water	8260D	
670-27652-13	LC34-DPT0945-008.0-20230928	Total/NA	Water	8260D	
670-27652-17	LC34-DPT0945-034.0-20230928	Total/NA	Water	8260D	
670-27652-18	LC34-DPT0945-038.0-20230928	Total/NA	Water	8260D	
670-27652-19	LC34-DPT0946-008.0-20230928	Total/NA	Water	8260D	
670-27652-20	LC34-DPT0946-013.0-20230928	Total/NA	Water	8260D	
670-27652-21	LC34-DPT0946-018.0-20230928	Total/NA	Water	8260D	
670-27652-23	LC34-DPT0946-034.0-20230928	Total/NA	Water	8260D	
MB 680-800818/7	Method Blank	Total/NA	Water	8260D	
LCS 680-800818/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-800818/4	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 800978

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-27652-1	LC34-DPT0943-008.0-20230927	Total/NA	Water	8260D	
670-27652-3	LC34-DPT0943-018.0-20230927	Total/NA	Water	8260D	
670-27652-4	LC34-DPT0943-025.0-20230927	Total/NA	Water	8260D	
670-27652-7	LC34-DPT0944-008.0-20230928	Total/NA	Water	8260D	
670-27652-8 - DL	LC34-DPT0944-013.0-20230928	Total/NA	Water	8260D	
670-27652-14	LC34-DPT0945-013.0-20230928	Total/NA	Water	8260D	
670-27652-15	LC34-DPT0945-018.0-20230928	Total/NA	Water	8260D	
670-27652-16	LC34-DPT0945-025.0-20230928	Total/NA	Water	8260D	
670-27652-22	LC34-DPT0946-025.0-20230928	Total/NA	Water	8260D	
670-27652-24	LC34-DPT0946-038.0-20230928	Total/NA	Water	8260D	
MB 680-800978/8	Method Blank	Total/NA	Water	8260D	
LCS 680-800978/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-800978/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27652-1
SDG: 670-27652-1

Client Sample ID: LC34-DPT0943-008.0-20230927
Lab Sample ID: 670-27652-1
Date Collected: 09/27/23 14:50
Matrix: Water
Date Received: 09/29/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	800978	P1C	EET SAV	10/04/23 16:01

Client Sample ID: LC34-DPT0943-013.0-20230927
Lab Sample ID: 670-27652-2
Date Collected: 09/27/23 15:05
Matrix: Water
Date Received: 09/29/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	800818	Y1S	EET SAV	10/03/23 17:12

Client Sample ID: LC34-DPT0943-018.0-20230927
Lab Sample ID: 670-27652-3
Date Collected: 09/27/23 15:20
Matrix: Water
Date Received: 09/29/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	800978	P1C	EET SAV	10/04/23 16:23

Client Sample ID: LC34-DPT0943-025.0-20230927
Lab Sample ID: 670-27652-4
Date Collected: 09/27/23 15:40
Matrix: Water
Date Received: 09/29/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	800978	P1C	EET SAV	10/04/23 16:45

Client Sample ID: LC34-DPT0943-034.0-20230928
Lab Sample ID: 670-27652-5
Date Collected: 09/28/23 07:55
Matrix: Water
Date Received: 09/29/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		10	800818	Y1S	EET SAV	10/03/23 18:14

Client Sample ID: LC34-DPT0943-038.0-20230928
Lab Sample ID: 670-27652-6
Date Collected: 09/28/23 08:20
Matrix: Water
Date Received: 09/29/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	800818	Y1S	EET SAV	10/03/23 18:34

Client Sample ID: LC34-DPT0944-008.0-20230928
Lab Sample ID: 670-27652-7
Date Collected: 09/28/23 09:00
Matrix: Water
Date Received: 09/29/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	800978	P1C	EET SAV	10/04/23 17:07

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27652-1
SDG: 670-27652-1

Client Sample ID: LC34-DPT0944-013.0-20230928
Lab Sample ID: 670-27652-8
Date Collected: 09/28/23 09:15
Matrix: Water
Date Received: 09/29/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D	DL	2	800978	P1C	EET SAV	10/04/23 17:28
Total/NA	Analysis	8260D		1	800818	Y1S	EET SAV	10/03/23 19:14

Client Sample ID: LC34-DPT0944-018.0-20230928
Lab Sample ID: 670-27652-9
Date Collected: 09/28/23 09:30
Matrix: Water
Date Received: 09/29/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		5	800818	Y1S	EET SAV	10/03/23 19:37

Client Sample ID: LC34-DPT0944-025.0-20230928
Lab Sample ID: 670-27652-10
Date Collected: 09/28/23 09:45
Matrix: Water
Date Received: 09/29/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	800818	Y1S	EET SAV	10/03/23 19:57

Client Sample ID: LC34-DPT0944-034.0-20230928
Lab Sample ID: 670-27652-11
Date Collected: 09/28/23 10:05
Matrix: Water
Date Received: 09/29/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		10	800818	Y1S	EET SAV	10/03/23 20:19

Client Sample ID: LC34-DPT0944-038.0-20230928
Lab Sample ID: 670-27652-12
Date Collected: 09/28/23 10:25
Matrix: Water
Date Received: 09/29/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	800818	Y1S	EET SAV	10/03/23 20:39

Client Sample ID: LC34-DPT0945-008.0-20230928
Lab Sample ID: 670-27652-13
Date Collected: 09/28/23 11:05
Matrix: Water
Date Received: 09/29/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	800818	Y1S	EET SAV	10/03/23 20:59

Client Sample ID: LC34-DPT0945-013.0-20230928
Lab Sample ID: 670-27652-14
Date Collected: 09/28/23 11:20
Matrix: Water
Date Received: 09/29/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	800978	P1C	EET SAV	10/04/23 17:50

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27652-1
SDG: 670-27652-1

Client Sample ID: LC34-DPT0945-018.0-20230928
Lab Sample ID: 670-27652-15
Date Collected: 09/28/23 11:35
Matrix: Water
Date Received: 09/29/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	800978	P1C	EET SAV	10/04/23 18:11

Client Sample ID: LC34-DPT0945-025.0-20230928
Lab Sample ID: 670-27652-16
Date Collected: 09/28/23 11:50
Matrix: Water
Date Received: 09/29/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	800978	P1C	EET SAV	10/04/23 18:33

Client Sample ID: LC34-DPT0945-034.0-20230928
Lab Sample ID: 670-27652-17
Date Collected: 09/28/23 12:05
Matrix: Water
Date Received: 09/29/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	800818	Y1S	EET SAV	10/03/23 22:19

Client Sample ID: LC34-DPT0945-038.0-20230928
Lab Sample ID: 670-27652-18
Date Collected: 09/28/23 12:25
Matrix: Water
Date Received: 09/29/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	800818	Y1S	EET SAV	10/03/23 22:39

Client Sample ID: LC34-DPT0946-008.0-20230928
Lab Sample ID: 670-27652-19
Date Collected: 09/28/23 12:55
Matrix: Water
Date Received: 09/29/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	800818	Y1S	EET SAV	10/03/23 22:59

Client Sample ID: LC34-DPT0946-013.0-20230928
Lab Sample ID: 670-27652-20
Date Collected: 09/28/23 13:10
Matrix: Water
Date Received: 09/29/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	800818	Y1S	EET SAV	10/03/23 23:19

Client Sample ID: LC34-DPT0946-018.0-20230928
Lab Sample ID: 670-27652-21
Date Collected: 09/28/23 13:25
Matrix: Water
Date Received: 09/29/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	800818	Y1S	EET SAV	10/03/23 23:39

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27652-1
SDG: 670-27652-1

Client Sample ID: LC34-DPT0946-025.0-20230928

Lab Sample ID: 670-27652-22

Date Collected: 09/28/23 13:40
Matrix: Water
Date Received: 09/29/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	800978	P1C	EET SAV	10/04/23 18:54

Client Sample ID: LC34-DPT0946-034.0-20230928

Lab Sample ID: 670-27652-23

Date Collected: 09/28/23 13:55
Matrix: Water
Date Received: 09/29/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	800818	Y1S	EET SAV	10/04/23 00:19

Client Sample ID: LC34-DPT0946-038.0-20230928

Lab Sample ID: 670-27652-24

Date Collected: 09/28/23 14:15
Matrix: Water
Date Received: 09/29/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	800978	P1C	EET SAV	10/04/23 19:16

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27652-1
SDG: 670-27652-1

Laboratory: Eurofins Savannah

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
	AFCEE	SAVLAB	
Alabama	State	41450	06-30-24
ANAB	Dept. of Defense ELAP	L2463	09-22-24
Arkansas DEQ	State	19-015-0	02-01-24
California	State	2939	06-30-24
Florida	NELAP	E87052	06-30-24
Georgia	State	E87052	06-30-24
Georgia (DW)	State	803	06-30-24
Guam	State	19-007R	04-17-24
Hawaii	State	<cert No.>	06-30-24
Illinois	NELAP	200022	11-30-23
Indiana	State	C-GA-02	06-30-24
Iowa	State	353	07-01-25
Kentucky (UST)	State	NA	06-30-24
Louisiana	NELAP	30690	06-30-24
Louisiana (All)	NELAP	30690	06-30-24
Louisiana (DW)	State	LA009	12-31-23
Maine	State	GA00006	09-25-24
Maryland	State	250	12-31-23
Massachusetts	State	M-GA006	06-30-24
Michigan	State	9925	06-30-24
Mississippi	State	<cert No.>	06-30-24
Nebraska	State	NE-OS-7-04	06-30-24
New Jersey	NELAP	GA769	06-30-24
New Mexico	State	GA00006	06-30-24
North Carolina (DW)	State	13701	07-31-24
North Carolina (WW/SW)	State	269	12-31-23
Pennsylvania	NELAP	68-00474	06-30-24
Puerto Rico	State	GA00006	01-01-24
South Carolina	State	98001	06-30-23 *
Tennessee	State	TN02961	06-30-24
Texas	NELAP	T1047004185	11-30-23
Texas	TCEQ Water Supply	T104704185	06-30-24
USDA	US Federal Programs	P330-18-00313	09-03-24
Virginia	NELAP	460161	06-14-24
Wyoming	State	8TMS-L	06-30-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27652-1
SDG: 670-27652-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET SAV
5030B	Purge and Trap	SW846	EET SAV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Sample Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27652-1
SDG: 670-27652-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
670-27652-1	LC34-DPT0943-008.0-20230927	Water	09/27/23 14:50	09/29/23 08:00
670-27652-2	LC34-DPT0943-013.0-20230927	Water	09/27/23 15:05	09/29/23 08:00
670-27652-3	LC34-DPT0943-018.0-20230927	Water	09/27/23 15:20	09/29/23 08:00
670-27652-4	LC34-DPT0943-025.0-20230927	Water	09/27/23 15:40	09/29/23 08:00
670-27652-5	LC34-DPT0943-034.0-20230928	Water	09/28/23 07:55	09/29/23 08:00
670-27652-6	LC34-DPT0943-038.0-20230928	Water	09/28/23 08:20	09/29/23 08:00
670-27652-7	LC34-DPT0944-008.0-20230928	Water	09/28/23 09:00	09/29/23 08:00
670-27652-8	LC34-DPT0944-013.0-20230928	Water	09/28/23 09:15	09/29/23 08:00
670-27652-9	LC34-DPT0944-018.0-20230928	Water	09/28/23 09:30	09/29/23 08:00
670-27652-10	LC34-DPT0944-025.0-20230928	Water	09/28/23 09:45	09/29/23 08:00
670-27652-11	LC34-DPT0944-034.0-20230928	Water	09/28/23 10:05	09/29/23 08:00
670-27652-12	LC34-DPT0944-038.0-20230928	Water	09/28/23 10:25	09/29/23 08:00
670-27652-13	LC34-DPT0945-008.0-20230928	Water	09/28/23 11:05	09/29/23 08:00
670-27652-14	LC34-DPT0945-013.0-20230928	Water	09/28/23 11:20	09/29/23 08:00
670-27652-15	LC34-DPT0945-018.0-20230928	Water	09/28/23 11:35	09/29/23 08:00
670-27652-16	LC34-DPT0945-025.0-20230928	Water	09/28/23 11:50	09/29/23 08:00
670-27652-17	LC34-DPT0945-034.0-20230928	Water	09/28/23 12:05	09/29/23 08:00
670-27652-18	LC34-DPT0945-038.0-20230928	Water	09/28/23 12:25	09/29/23 08:00
670-27652-19	LC34-DPT0946-008.0-20230928	Water	09/28/23 12:55	09/29/23 08:00
670-27652-20	LC34-DPT0946-013.0-20230928	Water	09/28/23 13:10	09/29/23 08:00
670-27652-21	LC34-DPT0946-018.0-20230928	Water	09/28/23 13:25	09/29/23 08:00
670-27652-22	LC34-DPT0946-025.0-20230928	Water	09/28/23 13:40	09/29/23 08:00
670-27652-23	LC34-DPT0946-034.0-20230928	Water	09/28/23 13:55	09/29/23 08:00
670-27652-24	LC34-DPT0946-038.0-20230928	Water	09/28/23 14:15	09/29/23 08:00

Tetra Tech, Inc.

CHAIN OF CUSTODY | NUMBER No. 3749 | PAGE 2 OF 2

PROJECT NO: 112G08985	FACILITY: KSC-LC34	PROJECT MANAGER Mark Jonnet	PHONE NUMBER (412) 921-8622	LABORATORY NAME AND CONTACT: Eurofins — Kaitlin Dylnicki
SAMPLERS (SIGNATURE) — Chuck Sorden		FIELD OPERATIONS LEADER Chuck Sorden	PHONE NUMBER (321) 591-7580	ADDRESS 481 Newburyport Ave.
		CARRIER/WAYBILL NUMBER		CITY, STATE Altamonte Springs, FL

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2023	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G): G G	PRESERVATIVE USED: Hcl/4°C 4°C	TYPE OF ANALYSIS: 8260D-(MOD) NASA LC34 Custom List	TYPE OF ANALYSIS: 8260D-(MOD) NASA LC34 Custom List	COMMENTS
09/28	1120	LC34-DPT0945-013.0-20230928	87	11	15	GW	G	4			X	X	
	1135	LC34-DPT0945-018.0-20230928		16	20								
	1150	LC34-DPT0945-025.0-20230928		23	27								
	1205	LC34-DPT0945-034.0-20230928		32	36								
	1225	LC34-DPT0945-038.0-20230928	87	36	40								
	1255	LC34-DPT0946-008.0-20230928	85	6	10								
	1310	LC34-DPT0946-013.0-20230928		11	15								
	1325	LC34-DPT0946-018.0-20230928		16	20								
	1340	LC34-DPT0946-025.0-20230928		23	27								
	1355	LC34-DPT0946-034.0-20230928		32	36								
09/28	1415	LC34-DPT0946-038.0-20230928	85	36	40	GW	G	4			X	X	

670-27652 Chain of Custody

1. RELINQUISHED BY	DATE	TIME	1. RECEIVED BY MC	DATE 9/29/23	TIME 8:00
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME
COMMENTS					

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

FORM NO. TtNUS-001 4/02B

10/16/2023

Tetra Tech, Inc. CHAIN OF CUSTODY | NUMBER No. 3748 | PAGE 1 OF 2

PROJECT NO: 112G08985	FACILITY: KSC-LC34	PROJECT MANAGER: Mark Jonnet	PHONE NUMBER: (412) 921-8622	LABORATORY NAME AND CONTACT: Eurofins — Kaitlin Dylnicki
SAMPLERS (SIGNATURE): -Chuck Sorden		FIELD OPERATIONS LEADER: Chuck Sorden	PHONE NUMBER: (321) 591-7580	ADDRESS: 481 Newburyport Ave.
		CARRIER/WAYBILL NUMBER:		CITY, STATE: Altamonte Springs, FL

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE (YEAR 2023)	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)										COMMENTS
									G	G									
									PRESERVATIVE USED										
									HCl/4°C	4°C									
									TYPE OF ANALYSIS										
									8260D-(MOD) NASA LC34 Custom List	8260D-(MOD) NASA LC34 Custom List									
09/27	1450	LC34-DPT0943-008.0-20230927	89	6	10	GW	G	4	X	X									
	1505	LC34-DPT0943-013.0-20230927		11	15														
	1520	LC34-DPT0943-018.0-20230927		16	20														
09/27	1540	LC34-DPT0943-025.0-20230927		23	27														
09/28	0755	LC34-DPT0943-034.0-20230928		32	36														
	0820	LC34-DPT0943-038.0-20230928	89	36	40														
	0900	LC34-DPT0944-008.0-20230928	88	6	10														
	0915	LC34-DPT0944-013.0-20230928		11	15														
	0930	LC34-DPT0944-018.0-20230928		16	20														
	0945	LC34-DPT0944-025.0-20230928		23	27														
	1005	LC34-DPT0944-034.0-20230928		32	36														
	1025	LC34-DPT0944-038.0-20230928	88	36	40														
09/28	1105	LC34-DPT0945-008.0-20230928	87	6	10	GW	G	4	X	X									

1. RELINQUISHED BY	DATE	TIME	1. RECEIVED BY MC	DATE 9/29/23	TIME 8:00
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS 5.4 / 4.9

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY) 4/02R

596 FORM NO. TtNUS-001

Tetra Tech, Inc.

CHAIN OF CUSTODY | NUMBER No. 3749 | PAGE 2 OF 2

PROJECT NO: 112G08985	FACILITY: KSC-LC34	PROJECT MANAGER Mark Jonnet	PHONE NUMBER (412) 921-8622	LABORATORY NAME AND CONTACT: Eurofins — Kaitlin Dylnicki
SAMPLERS (SIGNATURE) – Chuck Sorden		FIELD OPERATIONS LEADER Chuck Sorden	PHONE NUMBER (321) 591-7580	ADDRESS 481 Newburyport Ave.
		CARRIER/WAYBILL NUMBER		CITY, STATE Altamonte Springs, FL

STANDARD TAT ☒
RUSH TAT ☐ ☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE (YEAR 2023)	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G): G	G	PRESERVATIVE USED: Hcl/4°C	4°C	TYPE OF ANALYSIS: 8260D-(MOD) NASA LC34 Custom List	8260D-(MOD) NASA LC34 Custom List	COMMENTS
09/26	1120	LC34-DPT0945-013.0-20230928	87	11	15	GW	G	4	X	X					
	1135	LC34-DPT0945-018.0-20230928		16	20										
	1150	LC34-DPT0945-025.0-20230928		23	27										
	1205	LC34-DPT0945-034.0-20230928		32	36										
	1225	LC34-DPT0945-038.0-20230928	87	36	40										
	1255	LC34-DPT0946-008.0-20230928	85	6	10										
	1310	LC34-DPT0946-013.0-20230928		11	15										
	1325	LC34-DPT0946-018.0-20230928		16	20										
	1340	LC34-DPT0946-025.0-20230928		23	27										
	1355	LC34-DPT0946-034.0-20230928		32	36										
09/28	1415	LC34-DPT0946-038.0-20230928	85	36	40	GW	G	4	X	X					

670-27652 Chain of Custody

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY			1. RECEIVED BY MC	9/29/23	8:00
2. RELINQUISHED BY			2. RECEIVED BY		
3. RELINQUISHED BY			3. RECEIVED BY		

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

FORM NO. TtNUS-001 4/02B 10/16/2023

Tetra Tech, Inc.

CHAIN OF CUSTODY | NUMBER No. 3748 | PAGE 1 OF 2

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G08985	KSC-LC34	Mark Jonnet	(412) 921-8622	Eurofins — Kaitlin Dylnicki
SAMPLERS (SIGNATURE) -Chuck Sorden		FIELD OPERATIONS LEADER: Chuck Sorden	PHONE NUMBER: (321) 591-7580	ADDRESS: 481 Newburyport Ave.
		CARRIER/WAYBILL NUMBER		CITY, STATE: Altamonte Springs, FL

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE (YEAR 2023)	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G): G	G	PRESERVATIVE USED: HCl/4°C	4°C	TYPE OF ANALYSIS: 8260D-(MOD) NASA LC34 Custom List	8260D-(MOD) NASA LC34 Custom List	COMMENTS
09/27	1450	LC34-DPT0943-008.0-20230927	89	6	10	GW	G	4	X	X					
↓	1505	LC34-DPT0943-013.0-20230927	↓	11	15	↓	↓	↓	↓	↓					
	1520	LC34-DPT0943-018.0-20230927		16	20										
09/27	1540	LC34-DPT0943-025.0-20230927		23	27										
09/28	0755	LC34-DPT0943-034.0-20230928		32	36										
↓	0820	LC34-DPT0943-038.0-20230928	89	36	40										
	0900	LC34-DPT0944-008.0-20230928	88	6	10										
	0915	LC34-DPT0944-013.0-20230928	↓	11	15										
	0930	LC34-DPT0944-018.0-20230928		16	20										
	0945	LC34-DPT0944-025.0-20230928		23	27										
	1005	LC34-DPT0944-034.0-20230928		32	36										
↓	1025	LC34-DPT0944-038.0-20230928	88	36	40	↓	↓	↓	↓	↓					
09/28	1105	LC34-DPT0945-008.0-20230928	87	6	10	GW	G	4	X	X					

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY			1. RECEIVED BY MC	9/29/23	8:00
2. RELINQUISHED BY			2. RECEIVED BY		
3. RELINQUISHED BY			3. RECEIVED BY		

COMMENTS: 5.4 / 4.9

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

596

FORM NO. TtNUS-001 4/02R 10/16/2023

Eurofins Orlando
481 Newburyport Avenue
Altamonte Springs, FL 32701
Phone: 407-339-5984 Fax: 407-260-6110

Chain of Custody Record

eurofins

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Dylnicki, Kaitlin	Carrier Tracking No(s):	COC No: 670-16033.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: kaitlin.dylnicki@et.eurofinsus.com	State of Origin: Florida	Page: Page 1 of 3
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP - Florida		Job #: 670-27652-1
Address: 5102 LaRoche Avenue, ,	Due Date Requested: 10/9/2023			
City: Savannah	TAT Requested (days):			
State, Zip: GA, 31404				
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	PO #:			
Email:	WO #:			
Project Name: NASA KSC LC34 DPT	Project #: 67001156			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D/5030B (MOD) NASA LC34 Custom	8260D/5030B_UP (MOD) NASA LC34 Custom	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
LC34-DPT0943-008.0-20230927 (670-27652-1)	9/27/23	14:50 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0943-013.0-20230927 (670-27652-2)	9/27/23	15:05 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0943-018.0-20230927 (670-27652-3)	9/27/23	15:20 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0943-025.0-20230927 (670-27652-4)	9/27/23	15:40 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0943-034.0-20230928 (670-27652-5)	9/28/23	07:55 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0943-038.0-20230928 (670-27652-6)	9/28/23	08:20 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0944-008.0-20230928 (670-27652-7)	9/28/23	09:00 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0944-013.0-20230928 (670-27652-8)	9/28/23	09:15 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0944-018.0-20230928 (670-27652-9)	9/28/23	09:30 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)***
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For _____ Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	9/29 1230			9/30/23 0845	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0-9/0.7

Eurofins Orlando
481 Newburyport Avenue
Altamonte Springs, FL 32701
Phone: 407-339-5984 Fax: 407-260-6110

Chain of Custody Record

eurofins

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Dylnicki, Kaitlin	Carrier Tracking No(s):	COC No: 670-16033.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: kaitlin.dylnicki@et.eurofinsus.com	State of Origin: Florida	Page: Page 2 of 3
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP - Florida		Job #: 670-27652-1
Address: 5102 LaRoche Avenue, ,	Due Date Requested: 10/9/2023			
City: Savannah	TAT Requested (days):			
State, Zip: GA, 31404				
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	PO #:			
Email:	WO #:			
Project Name: NASA KSC LC34 DPT	Project #: 67001156			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D/5030B (MOD) NASA LC34 Custom	8260D/5030B_UP (MOD) NASA LC34 Custom	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
LC34-DPT0944-025.0-20230928 (670-27652-10)	9/28/23	09:45 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0944-034.0-20230928 (670-27652-11)	9/28/23	10:05 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0944-038.0-20230928 (670-27652-12)	9/28/23	10:25 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0945-008.0-20230928 (670-27652-13)	9/28/23	11:05 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0945-013.0-20230928 (670-27652-14)	9/28/23	11:20 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0945-018.0-20230928 (670-27652-15)	9/28/23	11:35 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0945-025.0-20230928 (670-27652-16)	9/28/23	11:50 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0945-034.0-20230928 (670-27652-17)	9/28/23	12:05 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0945-038.0-20230928 (670-27652-18)	9/28/23	12:25 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For _____ Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	9/29 1230			9/30/23 0845	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.9/0.7

Eurofins Orlando
481 Newburyport Avenue
Altamonte Springs, FL 32701
Phone: 407-339-5984 Fax: 407-260-6110

Chain of Custody Record

eurofins

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Dylnicki, Kaitlin	Carrier Tracking No(s):	COC No: 670-16033.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: kaitlin.dylnicki@et.eurofinsus.com	State of Origin: Florida	Page: Page 3 of 3
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP - Florida		Job #: 670-27652-1
Address: 5102 LaRoche Avenue, ,	Due Date Requested: 10/9/2023			
City: Savannah	TAT Requested (days):			
State, Zip: GA, 31404				
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	PO #:			
Email:	WO #:			
Project Name: NASA KSC LC34 DPT	Project #: 67001156			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D/5030B (MOD) NASA LC34 Custom	8260D/5030B_UP (MOD) NASA LC34 Custom	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
LC34-DPT0946-008.0-20230928 (670-27652-19)	9/28/23	12:55 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0946-013.0-20230928 (670-27652-20)	9/28/23	13:10 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0946-018.0-20230928 (670-27652-21)	9/28/23	13:25 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0946-025.0-20230928 (670-27652-22)	9/28/23	13:40 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0946-034.0-20230928 (670-27652-23)	9/28/23	13:55 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0946-038.0-20230928 (670-27652-24)	9/28/23	14:15 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		9/29 1230			[illegible] 0845	
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 9/30/23 0845	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.9/0.7

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 670-27652-1
SDG Number: 670-27652-1

Login Number: 27652
List Number: 1
Creator: Clerisier, Meline

List Source: Eurofins Orlando

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 670-27652-1
SDG Number: 670-27652-1

Login Number: 27652
List Number: 2
Creator: Deal, Katelyn

List Source: Eurofins Savannah
List Creation: 09/30/23 01:20 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Mark Jonnet
Tetra Tech, Inc.
Foster Plaza 7
661 Anderson Drive
Suite 200
Pittsburgh, Pennsylvania 15220-2745

Generated 10/12/2023 5:47:26 PM

JOB DESCRIPTION

NASA KSC LC34 DPT
SDG NUMBER 670-27764

JOB NUMBER

670-27764-1

Eurofins Orlando
481 Newburyport Avenue
Altamonte Springs FL 32701

See page two for job notes and contact information.

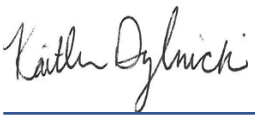
my EOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization



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Authorized for release by
Kaitlin Dylnicki, Project Manager
kaitlin.dylnicki@et.eurofinsus.com
(407)339-5984

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Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27764-1
SDG: 670-27764

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
U	Indicates that the compound was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 670-27764-1

Laboratory: Eurofins Orlando

Narrative

Job Narrative
Client: Tetra Tech
Client PM: Mark Jonnet
Project: NASA KSC LC34
Project Number: 112G08985
Job: 670-27764-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 9/30/2023 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.8°C

GC/MS VOA
Method 8260D: The continuing calibration verification (CCV) associated with batch 680-800978 recovered above the upper control limit for Bromomethane and Chloroethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260D: The continuing calibration verification (CCV) associated with batch 680-801481 recovered above the upper control limit for Bromomethane, Chloroethane and Trichlorofluoromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260D: The continuing calibration verification (CCV) associated with batch 680-801481 recovered outside acceptance criteria, low biased, for 1,2-Dibromo-3-Chloropropane, Acetone, Chloromethane and Methyl acetate. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

Method 8260D: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 680-801481 recovered outside control limits for the following analytes: Chloroethane and Trichlorofluoromethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D: The laboratory control sample duplicate (LCSD) for analytical batch 680-801481 recovered outside control limits for the following analytes: Bromomethane. This analyte was biased high in the LCSD and was not detected in the associated samples; therefore, the data have been reported.

Method 8260D: The following sample was diluted to bring the concentration of target analytes within the calibration range: LC34-DPT0949-034.0-20230929 (670-27764-17). Elevated reporting limits (RLs) are provided.

Method 8260D: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for analytical batch 680-801481 recovered outside control limits for the following analyte(s): 1,2-Dibromo-3-Chloropropane. 1,2-Dibromo-3-Chloropropane have been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-801481.

Job ID: 670-27764-1 (Continued)

Laboratory: Eurofins Orlando (Continued)

Method 8260D: The continuing calibration verification (CCV) associated with batch 680-801631 recovered outside acceptance criteria, low biased, for 1,2-Dibromo-3-Chloropropane, 2-Hexanone, Acetone, Chloromethane and Methyl acetate. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

Method 8260D: The continuing calibration verification (CCV) associated with batch 680-801631 recovered above the upper control limit for Bromomethane, Chloroethane and Trichlorofluoromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260D: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 680-801631 recovered outside control limits for the following analytes: Chloroethane and Trichlorofluoromethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for analytical batch 680-801631 recovered outside control limits for the following analyte(s): 1,2-Dibromo-3-Chloropropane. These analytes have been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-801631.

Method 8260D: The continuing calibration verification (CCV) associated with batch 680-801819 recovered above the upper control limit for Trichlorofluoromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 680-801819 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27764-1
SDG: 670-27764

Client Sample ID: LC34-DPT0947-008.0-20230928 — Lab Sample ID: 670-27764-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	26		1.0	0.25	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	0.56	I	1.0	0.34	ug/L	1		8260D	Total/NA
Vinyl chloride	38		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0947-013.0-20230928 — Lab Sample ID: 670-27764-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	36		1.0	0.25	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	0.47	I	1.0	0.34	ug/L	1		8260D	Total/NA
Vinyl chloride	54		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0947-018.0-20230928 — Lab Sample ID: 670-27764-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	120		1.0	0.25	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	0.47	I	1.0	0.34	ug/L	1		8260D	Total/NA
Vinyl chloride	130		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0947-025.0-20230928 — Lab Sample ID: 670-27764-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	190		2.0	0.50	ug/L	2		8260D	Total/NA
trans-1,2-Dichloroethene	3.0		2.0	0.68	ug/L	2		8260D	Total/NA
Vinyl chloride	89		2.0	0.80	ug/L	2		8260D	Total/NA

Client Sample ID: LC34-DPT0947-034.0-20230928 — Lab Sample ID: 670-27764-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.35	I	1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	2.6		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0947-038.0-20230928 — Lab Sample ID: 670-27764-6

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.54	I	2.0	0.43	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0948-008.0-20230929 — Lab Sample ID: 670-27764-7

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	24		1.0	0.25	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	0.41	I	1.0	0.34	ug/L	1		8260D	Total/NA
Vinyl chloride	42		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0948-013.0-20230929 — Lab Sample ID: 670-27764-8

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	53		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	71		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0948-018.0-20230929 — Lab Sample ID: 670-27764-9

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	300		5.0	1.3	ug/L	5		8260D	Total/NA
trans-1,2-Dichloroethene	2.3	I	5.0	1.7	ug/L	5		8260D	Total/NA
Vinyl chloride	140		5.0	2.0	ug/L	5		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Orlando

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27764-1
SDG: 670-27764

Client Sample ID: LC34-DPT0948-025.0-20230929 — Lab Sample ID: 670-27764-10

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	170		1.0	0.25	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	6.3		1.0	0.34	ug/L	1		8260D	Total/NA
Vinyl chloride - DL	570		5.0	2.0	ug/L	5		8260D	Total/NA

Client Sample ID: LC34-DPT0948-034.0-20230929 — Lab Sample ID: 670-27764-11

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.60	I	2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	30		1.0	0.25	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	0.42	I	1.0	0.34	ug/L	1		8260D	Total/NA
Vinyl chloride	33		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0948-038.0-20230929 — Lab Sample ID: 670-27764-12

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	5.3		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	0.76	I	1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0949-008.0-20230929 — Lab Sample ID: 670-27764-13

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	0.64	I	1.0	0.20	ug/L	1		8260D	Total/NA
Isopropylbenzene	0.55	I	1.0	0.26	ug/L	1		8260D	Total/NA
m,p-Xylenes	0.77	I	1.0	0.49	ug/L	1		8260D	Total/NA
o-Xylene	0.90	I	1.0	0.26	ug/L	1		8260D	Total/NA
Xylenes, Total	1.7		1.0	0.23	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0949-013.0-20230929 — Lab Sample ID: 670-27764-14

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	29		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	47		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0949-018.0-20230929 — Lab Sample ID: 670-27764-15

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	490		5.0	1.3	ug/L	5		8260D	Total/NA
trans-1,2-Dichloroethene	3.8	I	5.0	1.7	ug/L	5		8260D	Total/NA
Vinyl chloride	260		5.0	2.0	ug/L	5		8260D	Total/NA

Client Sample ID: LC34-DPT0949-025.0-20230929 — Lab Sample ID: 670-27764-16

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1100		25	6.3	ug/L	25		8260D	Total/NA
trans-1,2-Dichloroethene	46		25	8.5	ug/L	25		8260D	Total/NA
Vinyl chloride	2700		25	10	ug/L	25		8260D	Total/NA

Client Sample ID: LC34-DPT0949-034.0-20230929 — Lab Sample ID: 670-27764-17

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
trans-1,2-Dichloroethene	47		2.0	0.68	ug/L	2		8260D	Total/NA
Vinyl chloride - DL	600		5.0	2.0	ug/L	5		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27764-1
SDG: 670-27764

Client Sample ID: LC34-DPT0949-038.0-20230929 — Lab Sample ID: 670-27764-18

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.59	I	1.0	0.25	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	13		1.0	0.34	ug/L	1		8260D	Total/NA
Vinyl chloride	36		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0950-008.0-20230929 — Lab Sample ID: 670-27764-19

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	84		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	130		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0950-013.0-20230929 — Lab Sample ID: 670-27764-20

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	150		1.0	0.25	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	0.45	I	1.0	0.34	ug/L	1		8260D	Total/NA
Vinyl chloride	130		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0950-018.0-20230929 — Lab Sample ID: 670-27764-21

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	300		5.0	1.3	ug/L	5		8260D	Total/NA
trans-1,2-Dichloroethene	2.4	I	5.0	1.7	ug/L	5		8260D	Total/NA
Vinyl chloride	170		5.0	2.0	ug/L	5		8260D	Total/NA

Client Sample ID: LC34-DPT0950-025.0-20230929 — Lab Sample ID: 670-27764-22

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	1.1	I	2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	2.6		1.0	0.25	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	150		1.0	0.34	ug/L	1		8260D	Total/NA
Vinyl chloride - DL	460		10	4.0	ug/L	10		8260D	Total/NA

Client Sample ID: LC34-DPT0950-034.0-20230929 — Lab Sample ID: 670-27764-23

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	4.7	I	5.0	1.3	ug/L	5		8260D	Total/NA
trans-1,2-Dichloroethene	37		5.0	1.7	ug/L	5		8260D	Total/NA
Vinyl chloride	660		5.0	2.0	ug/L	5		8260D	Total/NA

Client Sample ID: LC34-DPT0950-038.0-20230929 — Lab Sample ID: 670-27764-24

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.78	I	2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.34	I	1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	0.83	I	1.0	0.40	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27764-1
SDG: 670-27764

Client Sample ID: LC34-DPT0947-008.0-20230928
Date Collected: 09/28/23 14:55
Date Received: 09/30/23 08:00

Lab Sample ID: 670-27764-1
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/07/23 15:48	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/07/23 15:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/07/23 15:48	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/07/23 15:48	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/07/23 15:48	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/07/23 15:48	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/07/23 15:48	1
1,2-Dibromo-3-Chloropropane	1.8	U J3	5.0	1.8	ug/L			10/07/23 15:48	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/07/23 15:48	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/07/23 15:48	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/07/23 15:48	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/07/23 15:48	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/07/23 15:48	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/07/23 15:48	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/07/23 15:48	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/07/23 15:48	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/07/23 15:48	1
Acetone	3.7	U	10	3.7	ug/L			10/07/23 15:48	1
Benzene	0.27	U	1.0	0.27	ug/L			10/07/23 15:48	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/07/23 15:48	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/07/23 15:48	1
Bromomethane	3.7	U J3	5.0	3.7	ug/L			10/07/23 15:48	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/07/23 15:48	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/07/23 15:48	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/07/23 15:48	1
Chloroethane	4.6	U J3	5.0	4.6	ug/L			10/07/23 15:48	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/07/23 15:48	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/07/23 15:48	1
cis-1,2-Dichloroethene	**26**		1.0	0.25	ug/L			10/07/23 15:48	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/07/23 15:48	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/07/23 15:48	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/07/23 15:48	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/07/23 15:48	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/07/23 15:48	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/07/23 15:48	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/07/23 15:48	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/07/23 15:48	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/07/23 15:48	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/07/23 15:48	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/07/23 15:48	1
Styrene	0.27	U	1.0	0.27	ug/L			10/07/23 15:48	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/07/23 15:48	1
Toluene	0.25	U	1.0	0.25	ug/L			10/07/23 15:48	1
trans-1,2-Dichloroethene	**0.56**	**I**	1.0	0.34	ug/L			10/07/23 15:48	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/07/23 15:48	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/07/23 15:48	1
Trichlorofluoromethane	0.33	U J3	1.0	0.33	ug/L			10/07/23 15:48	1
Vinyl chloride	**38**		1.0	0.40	ug/L			10/07/23 15:48	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/07/23 15:48	1

Client Sample ID: LC34-DPT0947-008.0-20230928

Lab Sample ID: 670-27764-1

Date Collected: 09/28/23 14:55
Matrix: Water
Date Received: 09/30/23 08:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		60 - 124		10/07/23 15:48	1
4-Bromofluorobenzene (Surr)	80		70 - 130		10/07/23 15:48	1
Dibromofluoromethane (Surr)	110		70 - 130		10/07/23 15:48	1
Toluene-d8 (Surr)	101		70 - 130		10/07/23 15:48	1

Client Sample ID: LC34-DPT0947-013.0-20230928

Lab Sample ID: 670-27764-2

Date Collected: 09/28/23 15:10
Matrix: Water
Date Received: 09/30/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/07/23 16:35	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/07/23 16:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/07/23 16:35	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/07/23 16:35	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/07/23 16:35	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/07/23 16:35	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/07/23 16:35	1
1,2-Dibromo-3-Chloropropane	1.8	U J3	5.0	1.8	ug/L			10/07/23 16:35	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/07/23 16:35	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/07/23 16:35	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/07/23 16:35	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/07/23 16:35	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/07/23 16:35	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/07/23 16:35	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/07/23 16:35	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/07/23 16:35	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/07/23 16:35	1
Acetone	3.7	U	10	3.7	ug/L			10/07/23 16:35	1
Benzene	0.27	U	1.0	0.27	ug/L			10/07/23 16:35	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/07/23 16:35	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/07/23 16:35	1
Bromomethane	3.7	U J3	5.0	3.7	ug/L			10/07/23 16:35	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/07/23 16:35	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/07/23 16:35	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/07/23 16:35	1
Chloroethane	4.6	U J3	5.0	4.6	ug/L			10/07/23 16:35	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/07/23 16:35	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/07/23 16:35	1
cis-1,2-Dichloroethene	**36**		1.0	0.25	ug/L			10/07/23 16:35	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/07/23 16:35	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/07/23 16:35	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/07/23 16:35	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/07/23 16:35	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/07/23 16:35	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/07/23 16:35	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/07/23 16:35	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/07/23 16:35	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/07/23 16:35	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/07/23 16:35	1

Client Sample ID: LC34-DPT0947-013.0-20230928

Lab Sample ID: 670-27764-2

Date Collected: 09/28/23 15:10

Matrix: Water

Date Received: 09/30/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	0.26	U	1.0	0.26	ug/L			10/07/23 16:35	1
Styrene	0.27	U	1.0	0.27	ug/L			10/07/23 16:35	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/07/23 16:35	1
Toluene	0.25	U	1.0	0.25	ug/L			10/07/23 16:35	1
trans-1,2-Dichloroethene	**0.47**	**I**	1.0	0.34	ug/L			10/07/23 16:35	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/07/23 16:35	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/07/23 16:35	1
Trichlorofluoromethane	0.33	U J3	1.0	0.33	ug/L			10/07/23 16:35	1
Vinyl chloride	**54**		1.0	0.40	ug/L			10/07/23 16:35	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/07/23 16:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 124*		*10/07/23 16:35*	*1*
4-Bromofluorobenzene (Surr)	*79*		*70 - 130*		*10/07/23 16:35*	*1*
Dibromofluoromethane (Surr)	*110*		*70 - 130*		*10/07/23 16:35*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*10/07/23 16:35*	*1*

Client Sample ID: LC34-DPT0947-018.0-20230928

Lab Sample ID: 670-27764-3

Date Collected: 09/28/23 15:25

Matrix: Water

Date Received: 09/30/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/04/23 19:38	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/04/23 19:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/04/23 19:38	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/04/23 19:38	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/04/23 19:38	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/04/23 19:38	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/04/23 19:38	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/04/23 19:38	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/04/23 19:38	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/04/23 19:38	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/04/23 19:38	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/04/23 19:38	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/04/23 19:38	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/04/23 19:38	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/04/23 19:38	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/04/23 19:38	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/04/23 19:38	1
Acetone	3.7	U	10	3.7	ug/L			10/04/23 19:38	1
Benzene	0.27	U	1.0	0.27	ug/L			10/04/23 19:38	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/04/23 19:38	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/04/23 19:38	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/04/23 19:38	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/04/23 19:38	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/04/23 19:38	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/04/23 19:38	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/04/23 19:38	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/04/23 19:38	1

Client Sample ID: LC34-DPT0947-018.0-20230928

Lab Sample ID: 670-27764-3

Date Collected: 09/28/23 15:25

Matrix: Water

Date Received: 09/30/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	0.54	U	1.0	0.54	ug/L			10/04/23 19:38	1
cis-1,2-Dichloroethene	**120**		1.0	0.25	ug/L			10/04/23 19:38	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/04/23 19:38	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/04/23 19:38	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/04/23 19:38	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/04/23 19:38	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/04/23 19:38	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/04/23 19:38	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/04/23 19:38	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/04/23 19:38	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/04/23 19:38	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/04/23 19:38	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/04/23 19:38	1
Styrene	0.27	U	1.0	0.27	ug/L			10/04/23 19:38	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/04/23 19:38	1
Toluene	0.25	U	1.0	0.25	ug/L			10/04/23 19:38	1
trans-1,2-Dichloroethene	**0.47**	**I**	1.0	0.34	ug/L			10/04/23 19:38	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/04/23 19:38	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/04/23 19:38	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/04/23 19:38	1
Vinyl chloride	**130**		1.0	0.40	ug/L			10/04/23 19:38	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/04/23 19:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*		*10/04/23 19:38*	*1*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*10/04/23 19:38*	*1*
Dibromofluoromethane (Surr)	*95*		*70 - 130*		*10/04/23 19:38*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*10/04/23 19:38*	*1*

Client Sample ID: LC34-DPT0947-025.0-20230928

Lab Sample ID: 670-27764-4

Date Collected: 09/28/23 15:45

Matrix: Water

Date Received: 09/30/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.42	U	2.0	0.42	ug/L			10/04/23 21:04	2
1,1,2,2-Tetrachloroethane	0.80	U	2.0	0.80	ug/L			10/04/23 21:04	2
1,1,2-Trichloro-1,2,2-trifluoroethane	0.46	U	2.0	0.46	ug/L			10/04/23 21:04	2
1,1,2-Trichloroethane	0.64	U	2.0	0.64	ug/L			10/04/23 21:04	2
1,1-Dichloroethane	0.66	U	2.0	0.66	ug/L			10/04/23 21:04	2
1,1-Dichloroethene	0.66	U	2.0	0.66	ug/L			10/04/23 21:04	2
1,2,4-Trichlorobenzene	1.1	U	10	1.1	ug/L			10/04/23 21:04	2
1,2-Dibromo-3-Chloropropane	3.6	U	10	3.6	ug/L			10/04/23 21:04	2
1,2-Dibromoethane (EDB)	0.66	U	2.0	0.66	ug/L			10/04/23 21:04	2
1,2-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/04/23 21:04	2
1,2-Dichloroethane	0.50	U	2.0	0.50	ug/L			10/04/23 21:04	2
1,2-Dichloropropane	0.44	U	2.0	0.44	ug/L			10/04/23 21:04	2
1,3-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/04/23 21:04	2
1,4-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/04/23 21:04	2
2-Butanone (MEK)	13	U	20	13	ug/L			10/04/23 21:04	2

Client Sample ID: LC34-DPT0947-025.0-20230928

Lab Sample ID: 670-27764-4

Date Collected: 09/28/23 15:45
Matrix: Water
Date Received: 09/30/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	6.4	U	20	6.4	ug/L			10/04/23 21:04	2
4-Methyl-2-pentanone	5.4	U	20	5.4	ug/L			10/04/23 21:04	2
Acetone	7.4	U	20	7.4	ug/L			10/04/23 21:04	2
Benzene	0.54	U	2.0	0.54	ug/L			10/04/23 21:04	2
Bromodichloromethane	0.50	U	2.0	0.50	ug/L			10/04/23 21:04	2
Bromoform	1.2	U	2.0	1.2	ug/L			10/04/23 21:04	2
Bromomethane	7.4	U	10	7.4	ug/L			10/04/23 21:04	2
Carbon disulfide	0.86	U	4.0	0.86	ug/L			10/04/23 21:04	2
Carbon tetrachloride	0.60	U	2.0	0.60	ug/L			10/04/23 21:04	2
Chlorobenzene	0.30	U	2.0	0.30	ug/L			10/04/23 21:04	2
Chloroethane	9.2	U	10	9.2	ug/L			10/04/23 21:04	2
Chloroform	0.54	U	2.0	0.54	ug/L			10/04/23 21:04	2
Chloromethane	1.1	U	2.0	1.1	ug/L			10/04/23 21:04	2
cis-1,2-Dichloroethene	**190**		2.0	0.50	ug/L			10/04/23 21:04	2
cis-1,3-Dichloropropene	0.52	U	2.0	0.52	ug/L			10/04/23 21:04	2
Cyclohexane	0.56	U	2.0	0.56	ug/L			10/04/23 21:04	2
Dibromochloromethane	0.78	U	2.0	0.78	ug/L			10/04/23 21:04	2
Dichlorodifluoromethane	0.72	U	2.0	0.72	ug/L			10/04/23 21:04	2
Ethylbenzene	0.40	U	2.0	0.40	ug/L			10/04/23 21:04	2
Isopropylbenzene	0.52	U	2.0	0.52	ug/L			10/04/23 21:04	2
m,p-Xylenes	0.98	U	2.0	0.98	ug/L			10/04/23 21:04	2
Methyl acetate	6.4	U	10	6.4	ug/L			10/04/23 21:04	2
Methyl tert-butyl ether	1.6	U	10	1.6	ug/L			10/04/23 21:04	2
Methylene Chloride	6.4	U	10	6.4	ug/L			10/04/23 21:04	2
o-Xylene	0.52	U	2.0	0.52	ug/L			10/04/23 21:04	2
Styrene	0.54	U	2.0	0.54	ug/L			10/04/23 21:04	2
Tetrachloroethene	0.70	U	2.0	0.70	ug/L			10/04/23 21:04	2
Toluene	0.50	U	2.0	0.50	ug/L			10/04/23 21:04	2
trans-1,2-Dichloroethene	**3.0**		2.0	0.68	ug/L			10/04/23 21:04	2
trans-1,3-Dichloropropene	0.46	U	2.0	0.46	ug/L			10/04/23 21:04	2
Trichloroethene	0.40	U	2.0	0.40	ug/L			10/04/23 21:04	2
Trichlorofluoromethane	0.66	U	2.0	0.66	ug/L			10/04/23 21:04	2
Vinyl chloride	**89**		2.0	0.80	ug/L			10/04/23 21:04	2
Xylenes, Total	0.46	U	2.0	0.46	ug/L			10/04/23 21:04	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*		*10/04/23 21:04*	*2*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*10/04/23 21:04*	*2*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*10/04/23 21:04*	*2*
Toluene-d8 (Surr)	*97*		*70 - 130*		*10/04/23 21:04*	*2*

Client Sample ID: LC34-DPT0947-034.0-20230928

Lab Sample ID: 670-27764-5

Date Collected: 09/28/23 16:05
Matrix: Water
Date Received: 09/30/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/07/23 16:58	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/07/23 16:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/07/23 16:58	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27764-1
SDG: 670-27764

Client Sample ID: LC34-DPT0947-034.0-20230928
Date Collected: 09/28/23 16:05
Date Received: 09/30/23 08:00

Lab Sample ID: 670-27764-5
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/07/23 16:58	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/07/23 16:58	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/07/23 16:58	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/07/23 16:58	1
1,2-Dibromo-3-Chloropropane	1.8	U J3	5.0	1.8	ug/L			10/07/23 16:58	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/07/23 16:58	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/07/23 16:58	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/07/23 16:58	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/07/23 16:58	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/07/23 16:58	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/07/23 16:58	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/07/23 16:58	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/07/23 16:58	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/07/23 16:58	1
Acetone	3.7	U	10	3.7	ug/L			10/07/23 16:58	1
Benzene	0.27	U	1.0	0.27	ug/L			10/07/23 16:58	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/07/23 16:58	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/07/23 16:58	1
Bromomethane	3.7	U J3	5.0	3.7	ug/L			10/07/23 16:58	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/07/23 16:58	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/07/23 16:58	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/07/23 16:58	1
Chloroethane	4.6	U J3	5.0	4.6	ug/L			10/07/23 16:58	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/07/23 16:58	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/07/23 16:58	1
cis-1,2-Dichloroethene	**0.35**	**I**	1.0	0.25	ug/L			10/07/23 16:58	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/07/23 16:58	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/07/23 16:58	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/07/23 16:58	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/07/23 16:58	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/07/23 16:58	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/07/23 16:58	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/07/23 16:58	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/07/23 16:58	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/07/23 16:58	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/07/23 16:58	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/07/23 16:58	1
Styrene	0.27	U	1.0	0.27	ug/L			10/07/23 16:58	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/07/23 16:58	1
Toluene	0.25	U	1.0	0.25	ug/L			10/07/23 16:58	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/07/23 16:58	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/07/23 16:58	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/07/23 16:58	1
Trichlorofluoromethane	0.33	U J3	1.0	0.33	ug/L			10/07/23 16:58	1
Vinyl chloride	**2.6**		1.0	0.40	ug/L			10/07/23 16:58	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/07/23 16:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 124*		*10/07/23 16:58*	*1*
4-Bromofluorobenzene (Surr)	*79*		*70 - 130*		*10/07/23 16:58*	*1*

Client Sample ID: LC34-DPT0947-034.0-20230928

Lab Sample ID: 670-27764-5

Date Collected: 09/28/23 16:05
Matrix: Water
Date Received: 09/30/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*110*		*70 - 130*		*10/07/23 16:58*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/07/23 16:58*	*1*

Client Sample ID: LC34-DPT0947-038.0-20230928

Lab Sample ID: 670-27764-6

Date Collected: 09/28/23 16:25
Matrix: Water
Date Received: 09/30/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/09/23 14:55	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/09/23 14:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/09/23 14:55	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/09/23 14:55	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/09/23 14:55	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/09/23 14:55	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/09/23 14:55	1
1,2-Dibromo-3-Chloropropane	1.8	U J3	5.0	1.8	ug/L			10/09/23 14:55	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/09/23 14:55	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 14:55	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/09/23 14:55	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/09/23 14:55	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 14:55	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 14:55	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/09/23 14:55	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/09/23 14:55	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/09/23 14:55	1
Acetone	3.7	U	10	3.7	ug/L			10/09/23 14:55	1
Benzene	0.27	U	1.0	0.27	ug/L			10/09/23 14:55	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/09/23 14:55	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/09/23 14:55	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/09/23 14:55	1
Carbon disulfide	**0.54**	**I**	2.0	0.43	ug/L			10/09/23 14:55	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/09/23 14:55	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/09/23 14:55	1
Chloroethane	4.6	U J3	5.0	4.6	ug/L			10/09/23 14:55	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/09/23 14:55	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/09/23 14:55	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/09/23 14:55	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/09/23 14:55	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/09/23 14:55	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/09/23 14:55	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/09/23 14:55	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/09/23 14:55	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/09/23 14:55	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/09/23 14:55	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/09/23 14:55	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/09/23 14:55	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/09/23 14:55	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/09/23 14:55	1

Client Sample ID: LC34-DPT0947-038.0-20230928

Lab Sample ID: 670-27764-6

Date Collected: 09/28/23 16:25
Matrix: Water
Date Received: 09/30/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.27	U	1.0	0.27	ug/L			10/09/23 14:55	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/09/23 14:55	1
Toluene	0.25	U	1.0	0.25	ug/L			10/09/23 14:55	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/09/23 14:55	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/09/23 14:55	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/09/23 14:55	1
Trichlorofluoromethane	0.33	U J3	1.0	0.33	ug/L			10/09/23 14:55	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/09/23 14:55	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/09/23 14:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 124*		*10/09/23 14:55*	*1*
4-Bromofluorobenzene (Surr)	*81*		*70 - 130*		*10/09/23 14:55*	*1*
Dibromofluoromethane (Surr)	*110*		*70 - 130*		*10/09/23 14:55*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*10/09/23 14:55*	*1*

Client Sample ID: LC34-DPT0948-008.0-20230929

Lab Sample ID: 670-27764-7

Date Collected: 09/28/23 08:00
Matrix: Water
Date Received: 09/30/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/07/23 17:22	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/07/23 17:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/07/23 17:22	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/07/23 17:22	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/07/23 17:22	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/07/23 17:22	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/07/23 17:22	1
1,2-Dibromo-3-Chloropropane	1.8	U J3	5.0	1.8	ug/L			10/07/23 17:22	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/07/23 17:22	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/07/23 17:22	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/07/23 17:22	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/07/23 17:22	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/07/23 17:22	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/07/23 17:22	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/07/23 17:22	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/07/23 17:22	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/07/23 17:22	1
Acetone	3.7	U	10	3.7	ug/L			10/07/23 17:22	1
Benzene	0.27	U	1.0	0.27	ug/L			10/07/23 17:22	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/07/23 17:22	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/07/23 17:22	1
Bromomethane	3.7	U J3	5.0	3.7	ug/L			10/07/23 17:22	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/07/23 17:22	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/07/23 17:22	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/07/23 17:22	1
Chloroethane	4.6	U J3	5.0	4.6	ug/L			10/07/23 17:22	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/07/23 17:22	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/07/23 17:22	1

Client Sample ID: LC34-DPT0948-008.0-20230929

Lab Sample ID: 670-27764-7

Date Collected: 09/28/23 08:00
Matrix: Water
Date Received: 09/30/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**24**		1.0	0.25	ug/L			10/07/23 17:22	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/07/23 17:22	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/07/23 17:22	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/07/23 17:22	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/07/23 17:22	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/07/23 17:22	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/07/23 17:22	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/07/23 17:22	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/07/23 17:22	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/07/23 17:22	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/07/23 17:22	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/07/23 17:22	1
Styrene	0.27	U	1.0	0.27	ug/L			10/07/23 17:22	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/07/23 17:22	1
Toluene	0.25	U	1.0	0.25	ug/L			10/07/23 17:22	1
trans-1,2-Dichloroethene	**0.41**	**I**	1.0	0.34	ug/L			10/07/23 17:22	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/07/23 17:22	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/07/23 17:22	1
Trichlorofluoromethane	0.33	U J3	1.0	0.33	ug/L			10/07/23 17:22	1
Vinyl chloride	**42**		1.0	0.40	ug/L			10/07/23 17:22	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/07/23 17:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 124*		*10/07/23 17:22*	*1*
4-Bromofluorobenzene (Surr)	*79*		*70 - 130*		*10/07/23 17:22*	*1*
Dibromofluoromethane (Surr)	*111*		*70 - 130*		*10/07/23 17:22*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*10/07/23 17:22*	*1*

Client Sample ID: LC34-DPT0948-013.0-20230929

Lab Sample ID: 670-27764-8

Date Collected: 09/28/23 08:15
Matrix: Water
Date Received: 09/30/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/04/23 19:59	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/04/23 19:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/04/23 19:59	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/04/23 19:59	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/04/23 19:59	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/04/23 19:59	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/04/23 19:59	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/04/23 19:59	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/04/23 19:59	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/04/23 19:59	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/04/23 19:59	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/04/23 19:59	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/04/23 19:59	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/04/23 19:59	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/04/23 19:59	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/04/23 19:59	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27764-1
SDG: 670-27764

Client Sample ID: LC34-DPT0948-013.0-20230929

Lab Sample ID: 670-27764-8

Date Collected: 09/28/23 08:15
Matrix: Water
Date Received: 09/30/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/04/23 19:59	1
Acetone	3.7	U	10	3.7	ug/L			10/04/23 19:59	1
Benzene	0.27	U	1.0	0.27	ug/L			10/04/23 19:59	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/04/23 19:59	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/04/23 19:59	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/04/23 19:59	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/04/23 19:59	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/04/23 19:59	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/04/23 19:59	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/04/23 19:59	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/04/23 19:59	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/04/23 19:59	1
cis-1,2-Dichloroethene	**53**		1.0	0.25	ug/L			10/04/23 19:59	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/04/23 19:59	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/04/23 19:59	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/04/23 19:59	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/04/23 19:59	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/04/23 19:59	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/04/23 19:59	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/04/23 19:59	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/04/23 19:59	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/04/23 19:59	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/04/23 19:59	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/04/23 19:59	1
Styrene	0.27	U	1.0	0.27	ug/L			10/04/23 19:59	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/04/23 19:59	1
Toluene	0.25	U	1.0	0.25	ug/L			10/04/23 19:59	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/04/23 19:59	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/04/23 19:59	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/04/23 19:59	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/04/23 19:59	1
Vinyl chloride	**71**		1.0	0.40	ug/L			10/04/23 19:59	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/04/23 19:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*		*10/04/23 19:59*	*1*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*10/04/23 19:59*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*10/04/23 19:59*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*10/04/23 19:59*	*1*

Client Sample ID: LC34-DPT0948-018.0-20230929

Lab Sample ID: 670-27764-9

Date Collected: 09/28/23 08:30
Matrix: Water
Date Received: 09/30/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	5.0	1.1	ug/L			10/04/23 21:26	5
1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	ug/L			10/04/23 21:26	5
1,1,2-Trichloro-1,2,2-trifluoroethane	1.2	U	5.0	1.2	ug/L			10/04/23 21:26	5
1,1,2-Trichloroethane	1.6	U	5.0	1.6	ug/L			10/04/23 21:26	5

Client Sample ID: LC34-DPT0948-018.0-20230929
Date Collected: 09/28/23 08:30
Date Received: 09/30/23 08:00

Lab Sample ID: 670-27764-9
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	1.7	U	5.0	1.7	ug/L			10/04/23 21:26	5
1,1-Dichloroethene	1.7	U	5.0	1.7	ug/L			10/04/23 21:26	5
1,2,4-Trichlorobenzene	2.7	U	25	2.7	ug/L			10/04/23 21:26	5
1,2-Dibromo-3-Chloropropane	9.0	U	25	9.0	ug/L			10/04/23 21:26	5
1,2-Dibromoethane (EDB)	1.7	U	5.0	1.7	ug/L			10/04/23 21:26	5
1,2-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/04/23 21:26	5
1,2-Dichloroethane	1.3	U	5.0	1.3	ug/L			10/04/23 21:26	5
1,2-Dichloropropane	1.1	U	5.0	1.1	ug/L			10/04/23 21:26	5
1,3-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/04/23 21:26	5
1,4-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/04/23 21:26	5
2-Butanone (MEK)	32	U	50	32	ug/L			10/04/23 21:26	5
2-Hexanone	16	U	50	16	ug/L			10/04/23 21:26	5
4-Methyl-2-pentanone	14	U	50	14	ug/L			10/04/23 21:26	5
Acetone	19	U	50	19	ug/L			10/04/23 21:26	5
Benzene	1.4	U	5.0	1.4	ug/L			10/04/23 21:26	5
Bromodichloromethane	1.3	U	5.0	1.3	ug/L			10/04/23 21:26	5
Bromoform	3.0	U	5.0	3.0	ug/L			10/04/23 21:26	5
Bromomethane	19	U	25	19	ug/L			10/04/23 21:26	5
Carbon disulfide	2.2	U	10	2.2	ug/L			10/04/23 21:26	5
Carbon tetrachloride	1.5	U	5.0	1.5	ug/L			10/04/23 21:26	5
Chlorobenzene	0.75	U	5.0	0.75	ug/L			10/04/23 21:26	5
Chloroethane	23	U	25	23	ug/L			10/04/23 21:26	5
Chloroform	1.4	U	5.0	1.4	ug/L			10/04/23 21:26	5
Chloromethane	2.7	U	5.0	2.7	ug/L			10/04/23 21:26	5
cis-1,2-Dichloroethene	**300**		5.0	1.3	ug/L			10/04/23 21:26	5
cis-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			10/04/23 21:26	5
Cyclohexane	1.4	U	5.0	1.4	ug/L			10/04/23 21:26	5
Dibromochloromethane	2.0	U	5.0	2.0	ug/L			10/04/23 21:26	5
Dichlorodifluoromethane	1.8	U	5.0	1.8	ug/L			10/04/23 21:26	5
Ethylbenzene	1.0	U	5.0	1.0	ug/L			10/04/23 21:26	5
Isopropylbenzene	1.3	U	5.0	1.3	ug/L			10/04/23 21:26	5
m,p-Xylenes	2.5	U	5.0	2.5	ug/L			10/04/23 21:26	5
Methyl acetate	16	U	25	16	ug/L			10/04/23 21:26	5
Methyl tert-butyl ether	4.1	U	25	4.1	ug/L			10/04/23 21:26	5
Methylene Chloride	16	U	25	16	ug/L			10/04/23 21:26	5
o-Xylene	1.3	U	5.0	1.3	ug/L			10/04/23 21:26	5
Styrene	1.4	U	5.0	1.4	ug/L			10/04/23 21:26	5
Tetrachloroethene	1.8	U	5.0	1.8	ug/L			10/04/23 21:26	5
Toluene	1.3	U	5.0	1.3	ug/L			10/04/23 21:26	5
trans-1,2-Dichloroethene	**2.3**	**I**	5.0	1.7	ug/L			10/04/23 21:26	5
trans-1,3-Dichloropropene	1.2	U	5.0	1.2	ug/L			10/04/23 21:26	5
Trichloroethene	1.0	U	5.0	1.0	ug/L			10/04/23 21:26	5
Trichlorofluoromethane	1.7	U	5.0	1.7	ug/L			10/04/23 21:26	5
Vinyl chloride	**140**		5.0	2.0	ug/L			10/04/23 21:26	5
Xylenes, Total	1.2	U	5.0	1.2	ug/L			10/04/23 21:26	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*		*10/04/23 21:26*	*5*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*10/04/23 21:26*	*5*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*10/04/23 21:26*	*5*

Client Sample ID: LC34-DPT0948-018.0-20230929

Lab Sample ID: 670-27764-9

Date Collected: 09/28/23 08:30
Matrix: Water
Date Received: 09/30/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*70 - 130*		*10/04/23 21:26*	*5*

Client Sample ID: LC34-DPT0948-025.0-20230929

Lab Sample ID: 670-27764-10

Date Collected: 09/28/23 08:50
Matrix: Water
Date Received: 09/30/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/07/23 17:45	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/07/23 17:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/07/23 17:45	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/07/23 17:45	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/07/23 17:45	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/07/23 17:45	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/07/23 17:45	1
1,2-Dibromo-3-Chloropropane	1.8	U J3	5.0	1.8	ug/L			10/07/23 17:45	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/07/23 17:45	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/07/23 17:45	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/07/23 17:45	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/07/23 17:45	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/07/23 17:45	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/07/23 17:45	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/07/23 17:45	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/07/23 17:45	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/07/23 17:45	1
Acetone	3.7	U	10	3.7	ug/L			10/07/23 17:45	1
Benzene	0.27	U	1.0	0.27	ug/L			10/07/23 17:45	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/07/23 17:45	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/07/23 17:45	1
Bromomethane	3.7	U J3	5.0	3.7	ug/L			10/07/23 17:45	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/07/23 17:45	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/07/23 17:45	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/07/23 17:45	1
Chloroethane	4.6	U J3	5.0	4.6	ug/L			10/07/23 17:45	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/07/23 17:45	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/07/23 17:45	1
cis-1,2-Dichloroethene	**170**		1.0	0.25	ug/L			10/07/23 17:45	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/07/23 17:45	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/07/23 17:45	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/07/23 17:45	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/07/23 17:45	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/07/23 17:45	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/07/23 17:45	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/07/23 17:45	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/07/23 17:45	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/07/23 17:45	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/07/23 17:45	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/07/23 17:45	1
Styrene	0.27	U	1.0	0.27	ug/L			10/07/23 17:45	1

Client Sample ID: LC34-DPT0948-025.0-20230929

Lab Sample ID: 670-27764-10

Date Collected: 09/28/23 08:50
Matrix: Water
Date Received: 09/30/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/07/23 17:45	1
Toluene	0.25	U	1.0	0.25	ug/L			10/07/23 17:45	1
trans-1,2-Dichloroethene	**6.3**		1.0	0.34	ug/L			10/07/23 17:45	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/07/23 17:45	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/07/23 17:45	1
Trichlorofluoromethane	0.33	U J3	1.0	0.33	ug/L			10/07/23 17:45	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/07/23 17:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 124*		*10/07/23 17:45*	*1*
4-Bromofluorobenzene (Surr)	*80*		*70 - 130*		*10/07/23 17:45*	*1*
Dibromofluoromethane (Surr)	*110*		*70 - 130*		*10/07/23 17:45*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/07/23 17:45*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	**570**		5.0	2.0	ug/L			10/09/23 19:49	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 124*		*10/09/23 19:49*	*5*
4-Bromofluorobenzene (Surr)	*81*		*70 - 130*		*10/09/23 19:49*	*5*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*10/09/23 19:49*	*5*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/09/23 19:49*	*5*

Client Sample ID: LC34-DPT0948-034.0-20230929

Lab Sample ID: 670-27764-11

Date Collected: 09/28/23 09:10
Matrix: Water
Date Received: 09/30/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/07/23 18:08	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/07/23 18:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/07/23 18:08	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/07/23 18:08	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/07/23 18:08	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/07/23 18:08	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/07/23 18:08	1
1,2-Dibromo-3-Chloropropane	1.8	U J3	5.0	1.8	ug/L			10/07/23 18:08	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/07/23 18:08	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/07/23 18:08	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/07/23 18:08	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/07/23 18:08	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/07/23 18:08	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/07/23 18:08	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/07/23 18:08	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/07/23 18:08	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/07/23 18:08	1
Acetone	3.7	U	10	3.7	ug/L			10/07/23 18:08	1
Benzene	0.27	U	1.0	0.27	ug/L			10/07/23 18:08	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/07/23 18:08	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/07/23 18:08	1

Client Sample ID: LC34-DPT0948-034.0-20230929

Lab Sample ID: 670-27764-11

Date Collected: 09/28/23 09:10
Matrix: Water
Date Received: 09/30/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	3.7	U J3	5.0	3.7	ug/L			10/07/23 18:08	1
Carbon disulfide	**0.60**	**I**	2.0	0.43	ug/L			10/07/23 18:08	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/07/23 18:08	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/07/23 18:08	1
Chloroethane	4.6	U J3	5.0	4.6	ug/L			10/07/23 18:08	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/07/23 18:08	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/07/23 18:08	1
cis-1,2-Dichloroethene	**30**		1.0	0.25	ug/L			10/07/23 18:08	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/07/23 18:08	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/07/23 18:08	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/07/23 18:08	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/07/23 18:08	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/07/23 18:08	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/07/23 18:08	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/07/23 18:08	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/07/23 18:08	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/07/23 18:08	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/07/23 18:08	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/07/23 18:08	1
Styrene	0.27	U	1.0	0.27	ug/L			10/07/23 18:08	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/07/23 18:08	1
Toluene	0.25	U	1.0	0.25	ug/L			10/07/23 18:08	1
trans-1,2-Dichloroethene	**0.42**	**I**	1.0	0.34	ug/L			10/07/23 18:08	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/07/23 18:08	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/07/23 18:08	1
Trichlorofluoromethane	0.33	U J3	1.0	0.33	ug/L			10/07/23 18:08	1
Vinyl chloride	**33**		1.0	0.40	ug/L			10/09/23 15:18	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/07/23 18:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 124*		*10/07/23 18:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 124*		*10/09/23 15:18*	*1*
4-Bromofluorobenzene (Surr)	*80*		*70 - 130*		*10/07/23 18:08*	*1*
4-Bromofluorobenzene (Surr)	*80*		*70 - 130*		*10/09/23 15:18*	*1*
Dibromofluoromethane (Surr)	*110*		*70 - 130*		*10/07/23 18:08*	*1*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*10/09/23 15:18*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/07/23 18:08*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/09/23 15:18*	*1*

Client Sample ID: LC34-DPT0948-038.0-20230929

Lab Sample ID: 670-27764-12

Date Collected: 09/28/23 09:30
Matrix: Water
Date Received: 09/30/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/07/23 18:32	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/07/23 18:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/07/23 18:32	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/07/23 18:32	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/07/23 18:32	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27764-1
SDG: 670-27764

Client Sample ID: LC34-DPT0948-038.0-20230929
Date Collected: 09/28/23 09:30
Date Received: 09/30/23 08:00

Lab Sample ID: 670-27764-12
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/07/23 18:32	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/07/23 18:32	1
1,2-Dibromo-3-Chloropropane	1.8	U J3	5.0	1.8	ug/L			10/07/23 18:32	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/07/23 18:32	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/07/23 18:32	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/07/23 18:32	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/07/23 18:32	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/07/23 18:32	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/07/23 18:32	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/07/23 18:32	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/07/23 18:32	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/07/23 18:32	1
Acetone	3.7	U	10	3.7	ug/L			10/07/23 18:32	1
Benzene	0.27	U	1.0	0.27	ug/L			10/07/23 18:32	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/07/23 18:32	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/07/23 18:32	1
Bromomethane	3.7	U J3	5.0	3.7	ug/L			10/07/23 18:32	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/07/23 18:32	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/07/23 18:32	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/07/23 18:32	1
Chloroethane	4.6	U J3	5.0	4.6	ug/L			10/07/23 18:32	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/07/23 18:32	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/07/23 18:32	1
cis-1,2-Dichloroethene	**5.3**		1.0	0.25	ug/L			10/07/23 18:32	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/07/23 18:32	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/07/23 18:32	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/07/23 18:32	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/07/23 18:32	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/07/23 18:32	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/07/23 18:32	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/07/23 18:32	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/07/23 18:32	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/07/23 18:32	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/07/23 18:32	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/07/23 18:32	1
Styrene	0.27	U	1.0	0.27	ug/L			10/07/23 18:32	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/07/23 18:32	1
Toluene	0.25	U	1.0	0.25	ug/L			10/07/23 18:32	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/07/23 18:32	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/07/23 18:32	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/07/23 18:32	1
Trichlorofluoromethane	0.33	U J3	1.0	0.33	ug/L			10/07/23 18:32	1
Vinyl chloride	**0.76**	**I**	1.0	0.40	ug/L			10/07/23 18:32	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/07/23 18:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 124*		*10/07/23 18:32*	*1*
4-Bromofluorobenzene (Surr)	*79*		*70 - 130*		*10/07/23 18:32*	*1*
Dibromofluoromethane (Surr)	*108*		*70 - 130*		*10/07/23 18:32*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/07/23 18:32*	*1*

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27764-1
SDG: 670-27764

Client Sample ID: LC34-DPT0949-008.0-20230929
Date Collected: 09/28/23 10:10
Date Received: 09/30/23 08:00

Lab Sample ID: 670-27764-13
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/09/23 18:16	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/09/23 18:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/09/23 18:16	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/09/23 18:16	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/09/23 18:16	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/09/23 18:16	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/09/23 18:16	1
1,2-Dibromo-3-Chloropropane	1.8	U J3	5.0	1.8	ug/L			10/09/23 18:16	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/09/23 18:16	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 18:16	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/09/23 18:16	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/09/23 18:16	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 18:16	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 18:16	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/09/23 18:16	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/09/23 18:16	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/09/23 18:16	1
Acetone	3.7	U	10	3.7	ug/L			10/09/23 18:16	1
Benzene	0.27	U	1.0	0.27	ug/L			10/09/23 18:16	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/09/23 18:16	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/09/23 18:16	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/09/23 18:16	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/09/23 18:16	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/09/23 18:16	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/09/23 18:16	1
Chloroethane	4.6	U J3	5.0	4.6	ug/L			10/09/23 18:16	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/09/23 18:16	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/09/23 18:16	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/09/23 18:16	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/09/23 18:16	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/09/23 18:16	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/09/23 18:16	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/09/23 18:16	1
Ethylbenzene	**0.64**	**I**	1.0	0.20	ug/L			10/09/23 18:16	1
Isopropylbenzene	**0.55**	**I**	1.0	0.26	ug/L			10/09/23 18:16	1
m,p-Xylenes	**0.77**	**I**	1.0	0.49	ug/L			10/09/23 18:16	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/09/23 18:16	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/09/23 18:16	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/09/23 18:16	1
o-Xylene	**0.90**	**I**	1.0	0.26	ug/L			10/09/23 18:16	1
Styrene	0.27	U	1.0	0.27	ug/L			10/09/23 18:16	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/09/23 18:16	1
Toluene	0.25	U	1.0	0.25	ug/L			10/09/23 18:16	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/09/23 18:16	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/09/23 18:16	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/09/23 18:16	1
Trichlorofluoromethane	0.33	U J3	1.0	0.33	ug/L			10/09/23 18:16	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/09/23 18:16	1
Xylenes, Total	**1.7**		1.0	0.23	ug/L			10/09/23 18:16	1

Client Sample ID: LC34-DPT0949-008.0-20230929

Lab Sample ID: 670-27764-13

Date Collected: 09/28/23 10:10
Matrix: Water
Date Received: 09/30/23 08:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 124*		*10/09/23 18:16*	*1*
4-Bromofluorobenzene (Surr)	*78*		*70 - 130*		*10/09/23 18:16*	*1*
Dibromofluoromethane (Surr)	*111*		*70 - 130*		*10/09/23 18:16*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/09/23 18:16*	*1*

Client Sample ID: LC34-DPT0949-013.0-20230929

Lab Sample ID: 670-27764-14

Date Collected: 09/28/23 10:25
Matrix: Water
Date Received: 09/30/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/07/23 18:55	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/07/23 18:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/07/23 18:55	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/07/23 18:55	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/07/23 18:55	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/07/23 18:55	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/07/23 18:55	1
1,2-Dibromo-3-Chloropropane	1.8	U J3	5.0	1.8	ug/L			10/07/23 18:55	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/07/23 18:55	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/07/23 18:55	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/07/23 18:55	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/07/23 18:55	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/07/23 18:55	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/07/23 18:55	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/07/23 18:55	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/07/23 18:55	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/07/23 18:55	1
Acetone	3.7	U	10	3.7	ug/L			10/07/23 18:55	1
Benzene	0.27	U	1.0	0.27	ug/L			10/07/23 18:55	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/07/23 18:55	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/07/23 18:55	1
Bromomethane	3.7	U J3	5.0	3.7	ug/L			10/07/23 18:55	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/07/23 18:55	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/07/23 18:55	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/07/23 18:55	1
Chloroethane	4.6	U J3	5.0	4.6	ug/L			10/07/23 18:55	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/07/23 18:55	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/07/23 18:55	1
cis-1,2-Dichloroethene	**29**		1.0	0.25	ug/L			10/07/23 18:55	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/07/23 18:55	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/07/23 18:55	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/07/23 18:55	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/07/23 18:55	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/07/23 18:55	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/07/23 18:55	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/07/23 18:55	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/07/23 18:55	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/07/23 18:55	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/07/23 18:55	1

Client Sample ID: LC34-DPT0949-013.0-20230929

Lab Sample ID: 670-27764-14

Date Collected: 09/28/23 10:25
Matrix: Water
Date Received: 09/30/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	0.26	U	1.0	0.26	ug/L			10/07/23 18:55	1
Styrene	0.27	U	1.0	0.27	ug/L			10/07/23 18:55	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/07/23 18:55	1
Toluene	0.25	U	1.0	0.25	ug/L			10/07/23 18:55	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/07/23 18:55	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/07/23 18:55	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/07/23 18:55	1
Trichlorofluoromethane	0.33	U J3	1.0	0.33	ug/L			10/07/23 18:55	1
Vinyl chloride	**47**		1.0	0.40	ug/L			10/07/23 18:55	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/07/23 18:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 124*		*10/07/23 18:55*	*1*
4-Bromofluorobenzene (Surr)	*80*		*70 - 130*		*10/07/23 18:55*	*1*
Dibromofluoromethane (Surr)	*110*		*70 - 130*		*10/07/23 18:55*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/07/23 18:55*	*1*

Client Sample ID: LC34-DPT0949-018.0-20230929

Lab Sample ID: 670-27764-15

Date Collected: 09/28/23 10:40
Matrix: Water
Date Received: 09/30/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	5.0	1.1	ug/L			10/04/23 21:47	5
1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	ug/L			10/04/23 21:47	5
1,1,2-Trichloro-1,2,2-trifluoroethane	1.2	U	5.0	1.2	ug/L			10/04/23 21:47	5
1,1,2-Trichloroethane	1.6	U	5.0	1.6	ug/L			10/04/23 21:47	5
1,1-Dichloroethane	1.7	U	5.0	1.7	ug/L			10/04/23 21:47	5
1,1-Dichloroethene	1.7	U	5.0	1.7	ug/L			10/04/23 21:47	5
1,2,4-Trichlorobenzene	2.7	U	25	2.7	ug/L			10/04/23 21:47	5
1,2-Dibromo-3-Chloropropane	9.0	U	25	9.0	ug/L			10/04/23 21:47	5
1,2-Dibromoethane (EDB)	1.7	U	5.0	1.7	ug/L			10/04/23 21:47	5
1,2-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/04/23 21:47	5
1,2-Dichloroethane	1.3	U	5.0	1.3	ug/L			10/04/23 21:47	5
1,2-Dichloropropane	1.1	U	5.0	1.1	ug/L			10/04/23 21:47	5
1,3-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/04/23 21:47	5
1,4-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/04/23 21:47	5
2-Butanone (MEK)	32	U	50	32	ug/L			10/04/23 21:47	5
2-Hexanone	16	U	50	16	ug/L			10/04/23 21:47	5
4-Methyl-2-pentanone	14	U	50	14	ug/L			10/04/23 21:47	5
Acetone	19	U	50	19	ug/L			10/04/23 21:47	5
Benzene	1.4	U	5.0	1.4	ug/L			10/04/23 21:47	5
Bromodichloromethane	1.3	U	5.0	1.3	ug/L			10/04/23 21:47	5
Bromoform	3.0	U	5.0	3.0	ug/L			10/04/23 21:47	5
Bromomethane	19	U	25	19	ug/L			10/04/23 21:47	5
Carbon disulfide	2.2	U	10	2.2	ug/L			10/04/23 21:47	5
Carbon tetrachloride	1.5	U	5.0	1.5	ug/L			10/04/23 21:47	5
Chlorobenzene	0.75	U	5.0	0.75	ug/L			10/04/23 21:47	5
Chloroethane	23	U	25	23	ug/L			10/04/23 21:47	5
Chloroform	1.4	U	5.0	1.4	ug/L			10/04/23 21:47	5

Client Sample ID: LC34-DPT0949-018.0-20230929

Lab Sample ID: 670-27764-15

Date Collected: 09/28/23 10:40

Matrix: Water

Date Received: 09/30/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	2.7	U	5.0	2.7	ug/L			10/04/23 21:47	5
cis-1,2-Dichloroethene	**490**		5.0	1.3	ug/L			10/04/23 21:47	5
cis-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			10/04/23 21:47	5
Cyclohexane	1.4	U	5.0	1.4	ug/L			10/04/23 21:47	5
Dibromochloromethane	2.0	U	5.0	2.0	ug/L			10/04/23 21:47	5
Dichlorodifluoromethane	1.8	U	5.0	1.8	ug/L			10/04/23 21:47	5
Ethylbenzene	1.0	U	5.0	1.0	ug/L			10/04/23 21:47	5
Isopropylbenzene	1.3	U	5.0	1.3	ug/L			10/04/23 21:47	5
m,p-Xylenes	2.5	U	5.0	2.5	ug/L			10/04/23 21:47	5
Methyl acetate	16	U	25	16	ug/L			10/04/23 21:47	5
Methyl tert-butyl ether	4.1	U	25	4.1	ug/L			10/04/23 21:47	5
Methylene Chloride	16	U	25	16	ug/L			10/04/23 21:47	5
o-Xylene	1.3	U	5.0	1.3	ug/L			10/04/23 21:47	5
Styrene	1.4	U	5.0	1.4	ug/L			10/04/23 21:47	5
Tetrachloroethene	1.8	U	5.0	1.8	ug/L			10/04/23 21:47	5
Toluene	1.3	U	5.0	1.3	ug/L			10/04/23 21:47	5
trans-1,2-Dichloroethene	**3.8**	**I**	5.0	1.7	ug/L			10/04/23 21:47	5
trans-1,3-Dichloropropene	1.2	U	5.0	1.2	ug/L			10/04/23 21:47	5
Trichloroethene	1.0	U	5.0	1.0	ug/L			10/04/23 21:47	5
Trichlorofluoromethane	1.7	U	5.0	1.7	ug/L			10/04/23 21:47	5
Vinyl chloride	**260**		5.0	2.0	ug/L			10/04/23 21:47	5
Xylenes, Total	1.2	U	5.0	1.2	ug/L			10/04/23 21:47	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*60 - 124*		*10/04/23 21:47*	*5*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*10/04/23 21:47*	*5*
Dibromofluoromethane (Surr)	*95*		*70 - 130*		*10/04/23 21:47*	*5*
Toluene-d8 (Surr)	*95*		*70 - 130*		*10/04/23 21:47*	*5*

Client Sample ID: LC34-DPT0949-025.0-20230929

Lab Sample ID: 670-27764-16

Date Collected: 09/28/23 11:00

Matrix: Water

Date Received: 09/30/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.3	U	25	5.3	ug/L			10/04/23 22:52	25
1,1,2,2-Tetrachloroethane	10	U	25	10	ug/L			10/04/23 22:52	25
1,1,2-Trichloro-1,2,2-trifluoroethane	5.8	U	25	5.8	ug/L			10/04/23 22:52	25
1,1,2-Trichloroethane	8.0	U	25	8.0	ug/L			10/04/23 22:52	25
1,1-Dichloroethane	8.3	U	25	8.3	ug/L			10/04/23 22:52	25
1,1-Dichloroethene	8.3	U	25	8.3	ug/L			10/04/23 22:52	25
1,2,4-Trichlorobenzene	13	U	130	13	ug/L			10/04/23 22:52	25
1,2-Dibromo-3-Chloropropane	45	U	130	45	ug/L			10/04/23 22:52	25
1,2-Dibromoethane (EDB)	8.3	U	25	8.3	ug/L			10/04/23 22:52	25
1,2-Dichlorobenzene	7.8	U	25	7.8	ug/L			10/04/23 22:52	25
1,2-Dichloroethane	6.3	U	25	6.3	ug/L			10/04/23 22:52	25
1,2-Dichloropropane	5.5	U	25	5.5	ug/L			10/04/23 22:52	25
1,3-Dichlorobenzene	7.8	U	25	7.8	ug/L			10/04/23 22:52	25
1,4-Dichlorobenzene	7.8	U	25	7.8	ug/L			10/04/23 22:52	25
2-Butanone (MEK)	160	U	250	160	ug/L			10/04/23 22:52	25

Client Sample ID: LC34-DPT0949-025.0-20230929

Lab Sample ID: 670-27764-16

Date Collected: 09/28/23 11:00
Matrix: Water
Date Received: 09/30/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	80	U	250	80	ug/L			10/04/23 22:52	25
4-Methyl-2-pentanone	68	U	250	68	ug/L			10/04/23 22:52	25
Acetone	93	U	250	93	ug/L			10/04/23 22:52	25
Benzene	6.8	U	25	6.8	ug/L			10/04/23 22:52	25
Bromodichloromethane	6.3	U	25	6.3	ug/L			10/04/23 22:52	25
Bromoform	15	U	25	15	ug/L			10/04/23 22:52	25
Bromomethane	93	U	130	93	ug/L			10/04/23 22:52	25
Carbon disulfide	11	U	50	11	ug/L			10/04/23 22:52	25
Carbon tetrachloride	7.5	U	25	7.5	ug/L			10/04/23 22:52	25
Chlorobenzene	3.8	U	25	3.8	ug/L			10/04/23 22:52	25
Chloroethane	120	U	130	120	ug/L			10/04/23 22:52	25
Chloroform	6.8	U	25	6.8	ug/L			10/04/23 22:52	25
Chloromethane	14	U	25	14	ug/L			10/04/23 22:52	25
cis-1,2-Dichloroethene	**1100**		25	6.3	ug/L			10/04/23 22:52	25
cis-1,3-Dichloropropene	6.5	U	25	6.5	ug/L			10/04/23 22:52	25
Cyclohexane	7.0	U	25	7.0	ug/L			10/04/23 22:52	25
Dibromochloromethane	9.8	U	25	9.8	ug/L			10/04/23 22:52	25
Dichlorodifluoromethane	9.0	U	25	9.0	ug/L			10/04/23 22:52	25
Ethylbenzene	5.0	U	25	5.0	ug/L			10/04/23 22:52	25
Isopropylbenzene	6.5	U	25	6.5	ug/L			10/04/23 22:52	25
m,p-Xylenes	12	U	25	12	ug/L			10/04/23 22:52	25
Methyl acetate	80	U	130	80	ug/L			10/04/23 22:52	25
Methyl tert-butyl ether	20	U	130	20	ug/L			10/04/23 22:52	25
Methylene Chloride	80	U	130	80	ug/L			10/04/23 22:52	25
o-Xylene	6.5	U	25	6.5	ug/L			10/04/23 22:52	25
Styrene	6.8	U	25	6.8	ug/L			10/04/23 22:52	25
Tetrachloroethene	8.8	U	25	8.8	ug/L			10/04/23 22:52	25
Toluene	6.3	U	25	6.3	ug/L			10/04/23 22:52	25
trans-1,2-Dichloroethene	**46**		25	8.5	ug/L			10/04/23 22:52	25
trans-1,3-Dichloropropene	5.8	U	25	5.8	ug/L			10/04/23 22:52	25
Trichloroethene	5.0	U	25	5.0	ug/L			10/04/23 22:52	25
Trichlorofluoromethane	8.3	U	25	8.3	ug/L			10/04/23 22:52	25
Vinyl chloride	**2700**		25	10	ug/L			10/04/23 22:52	25
Xylenes, Total	5.8	U	25	5.8	ug/L			10/04/23 22:52	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*60 - 124*		*10/04/23 22:52*	*25*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*10/04/23 22:52*	*25*
Dibromofluoromethane (Surr)	*94*		*70 - 130*		*10/04/23 22:52*	*25*
Toluene-d8 (Surr)	*96*		*70 - 130*		*10/04/23 22:52*	*25*

Client Sample ID: LC34-DPT0949-034.0-20230929

Lab Sample ID: 670-27764-17

Date Collected: 09/28/23 11:20
Matrix: Water
Date Received: 09/30/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.42	U	2.0	0.42	ug/L			10/07/23 23:34	2
1,1,2,2-Tetrachloroethane	0.80	U	2.0	0.80	ug/L			10/07/23 23:34	2
1,1,2-Trichloro-1,2,2-trifluoroethane	0.46	U	2.0	0.46	ug/L			10/07/23 23:34	2

Client Sample ID: LC34-DPT0949-034.0-20230929
Date Collected: 09/28/23 11:20
Date Received: 09/30/23 08:00

Lab Sample ID: 670-27764-17
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	0.64	U	2.0	0.64	ug/L			10/07/23 23:34	2
1,1-Dichloroethane	0.66	U	2.0	0.66	ug/L			10/07/23 23:34	2
1,1-Dichloroethene	0.66	U	2.0	0.66	ug/L			10/07/23 23:34	2
1,2,4-Trichlorobenzene	1.1	U	10	1.1	ug/L			10/07/23 23:34	2
1,2-Dibromo-3-Chloropropane	3.6	U J3	10	3.6	ug/L			10/07/23 23:34	2
1,2-Dibromoethane (EDB)	0.66	U	2.0	0.66	ug/L			10/07/23 23:34	2
1,2-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/07/23 23:34	2
1,2-Dichloroethane	0.50	U	2.0	0.50	ug/L			10/07/23 23:34	2
1,2-Dichloropropane	0.44	U	2.0	0.44	ug/L			10/07/23 23:34	2
1,3-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/07/23 23:34	2
1,4-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/07/23 23:34	2
2-Butanone (MEK)	13	U	20	13	ug/L			10/07/23 23:34	2
2-Hexanone	6.4	U	20	6.4	ug/L			10/07/23 23:34	2
4-Methyl-2-pentanone	5.4	U	20	5.4	ug/L			10/07/23 23:34	2
Acetone	7.4	U	20	7.4	ug/L			10/07/23 23:34	2
Benzene	0.54	U	2.0	0.54	ug/L			10/07/23 23:34	2
Bromodichloromethane	0.50	U	2.0	0.50	ug/L			10/07/23 23:34	2
Bromoform	1.2	U	2.0	1.2	ug/L			10/07/23 23:34	2
Bromomethane	7.4	U J3	10	7.4	ug/L			10/07/23 23:34	2
Carbon disulfide	0.86	U	4.0	0.86	ug/L			10/07/23 23:34	2
Carbon tetrachloride	0.60	U	2.0	0.60	ug/L			10/07/23 23:34	2
Chlorobenzene	0.30	U	2.0	0.30	ug/L			10/07/23 23:34	2
Chloroethane	9.2	U J3	10	9.2	ug/L			10/07/23 23:34	2
Chloroform	0.54	U	2.0	0.54	ug/L			10/07/23 23:34	2
Chloromethane	1.1	U	2.0	1.1	ug/L			10/07/23 23:34	2
cis-1,2-Dichloroethene	0.50	U	2.0	0.50	ug/L			10/07/23 23:34	2
cis-1,3-Dichloropropene	0.52	U	2.0	0.52	ug/L			10/07/23 23:34	2
Cyclohexane	0.56	U	2.0	0.56	ug/L			10/07/23 23:34	2
Dibromochloromethane	0.78	U	2.0	0.78	ug/L			10/07/23 23:34	2
Dichlorodifluoromethane	0.72	U	2.0	0.72	ug/L			10/07/23 23:34	2
Ethylbenzene	0.40	U	2.0	0.40	ug/L			10/07/23 23:34	2
Isopropylbenzene	0.52	U	2.0	0.52	ug/L			10/07/23 23:34	2
m,p-Xylenes	0.98	U	2.0	0.98	ug/L			10/07/23 23:34	2
Methyl acetate	6.4	U	10	6.4	ug/L			10/07/23 23:34	2
Methyl tert-butyl ether	1.6	U	10	1.6	ug/L			10/07/23 23:34	2
Methylene Chloride	6.4	U	10	6.4	ug/L			10/07/23 23:34	2
o-Xylene	0.52	U	2.0	0.52	ug/L			10/07/23 23:34	2
Styrene	0.54	U	2.0	0.54	ug/L			10/07/23 23:34	2
Tetrachloroethene	0.70	U	2.0	0.70	ug/L			10/07/23 23:34	2
Toluene	0.50	U	2.0	0.50	ug/L			10/07/23 23:34	2
trans-1,2-Dichloroethene	**47**		2.0	0.68	ug/L			10/07/23 23:34	2
trans-1,3-Dichloropropene	0.46	U	2.0	0.46	ug/L			10/07/23 23:34	2
Trichloroethene	0.40	U	2.0	0.40	ug/L			10/07/23 23:34	2
Trichlorofluoromethane	0.66	U J3	2.0	0.66	ug/L			10/07/23 23:34	2
Xylenes, Total	0.46	U	2.0	0.46	ug/L			10/07/23 23:34	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 124*		*10/07/23 23:34*	*2*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*		*10/07/23 23:34*	*2*
Dibromofluoromethane (Surr)	*110*		*70 - 130*		*10/07/23 23:34*	*2*

Client Sample ID: LC34-DPT0949-034.0-20230929

Lab Sample ID: 670-27764-17

Date Collected: 09/28/23 11:20
Matrix: Water
Date Received: 09/30/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/07/23 23:34*	*2*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	600		5.0	2.0	ug/L			10/10/23 17:29	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*60 - 124*		*10/10/23 17:29*	*5*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*10/10/23 17:29*	*5*
Dibromofluoromethane (Surr)	*119*		*70 - 130*		*10/10/23 17:29*	*5*
Toluene-d8 (Surr)	*113*		*70 - 130*		*10/10/23 17:29*	*5*

Client Sample ID: LC34-DPT0949-038.0-20230929

Lab Sample ID: 670-27764-18

Date Collected: 09/28/23 11:40
Matrix: Water
Date Received: 09/30/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/09/23 19:02	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/09/23 19:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/09/23 19:02	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/09/23 19:02	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/09/23 19:02	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/09/23 19:02	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/09/23 19:02	1
1,2-Dibromo-3-Chloropropane	1.8	U J3	5.0	1.8	ug/L			10/09/23 19:02	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/09/23 19:02	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 19:02	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/09/23 19:02	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/09/23 19:02	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 19:02	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 19:02	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/09/23 19:02	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/09/23 19:02	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/09/23 19:02	1
Acetone	3.7	U	10	3.7	ug/L			10/09/23 19:02	1
Benzene	0.27	U	1.0	0.27	ug/L			10/09/23 19:02	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/09/23 19:02	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/09/23 19:02	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/09/23 19:02	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/09/23 19:02	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/09/23 19:02	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/09/23 19:02	1
Chloroethane	4.6	U J3	5.0	4.6	ug/L			10/09/23 19:02	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/09/23 19:02	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/09/23 19:02	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/09/23 19:02	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/09/23 19:02	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/09/23 19:02	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/09/23 19:02	1

Client Sample ID: LC34-DPT0949-038.0-20230929

Lab Sample ID: 670-27764-18

Date Collected: 09/28/23 11:40
Matrix: Water
Date Received: 09/30/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/09/23 19:02	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/09/23 19:02	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/09/23 19:02	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/09/23 19:02	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/09/23 19:02	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/09/23 19:02	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/09/23 19:02	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/09/23 19:02	1
Styrene	0.27	U	1.0	0.27	ug/L			10/09/23 19:02	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/09/23 19:02	1
Toluene	**0.59**	**I**	1.0	0.25	ug/L			10/09/23 19:02	1
trans-1,2-Dichloroethene	**13**		1.0	0.34	ug/L			10/09/23 19:02	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/09/23 19:02	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/09/23 19:02	1
Trichlorofluoromethane	0.33	U J3	1.0	0.33	ug/L			10/09/23 19:02	1
Vinyl chloride	**36**		1.0	0.40	ug/L			10/09/23 19:02	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/09/23 19:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 124*		*10/09/23 19:02*	*1*
4-Bromofluorobenzene (Surr)	*79*		*70 - 130*		*10/09/23 19:02*	*1*
Dibromofluoromethane (Surr)	*111*		*70 - 130*		*10/09/23 19:02*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/09/23 19:02*	*1*

Client Sample ID: LC34-DPT0950-008.0-20230929

Lab Sample ID: 670-27764-19

Date Collected: 09/28/23 12:25
Matrix: Water
Date Received: 09/30/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/04/23 20:21	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/04/23 20:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/04/23 20:21	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/04/23 20:21	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/04/23 20:21	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/04/23 20:21	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/04/23 20:21	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/04/23 20:21	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/04/23 20:21	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/04/23 20:21	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/04/23 20:21	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/04/23 20:21	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/04/23 20:21	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/04/23 20:21	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/04/23 20:21	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/04/23 20:21	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/04/23 20:21	1
Acetone	3.7	U	10	3.7	ug/L			10/04/23 20:21	1
Benzene	0.27	U	1.0	0.27	ug/L			10/04/23 20:21	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/04/23 20:21	1

Client Sample ID: LC34-DPT0950-008.0-20230929

Lab Sample ID: 670-27764-19

Date Collected: 09/28/23 12:25
Matrix: Water
Date Received: 09/30/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	0.59	U	1.0	0.59	ug/L			10/04/23 20:21	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/04/23 20:21	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/04/23 20:21	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/04/23 20:21	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/04/23 20:21	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/04/23 20:21	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/04/23 20:21	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/04/23 20:21	1
cis-1,2-Dichloroethene	**84**		1.0	0.25	ug/L			10/04/23 20:21	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/04/23 20:21	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/04/23 20:21	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/04/23 20:21	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/04/23 20:21	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/04/23 20:21	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/04/23 20:21	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/04/23 20:21	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/04/23 20:21	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/04/23 20:21	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/04/23 20:21	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/04/23 20:21	1
Styrene	0.27	U	1.0	0.27	ug/L			10/04/23 20:21	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/04/23 20:21	1
Toluene	0.25	U	1.0	0.25	ug/L			10/04/23 20:21	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/04/23 20:21	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/04/23 20:21	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/04/23 20:21	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/04/23 20:21	1
Vinyl chloride	**130**		1.0	0.40	ug/L			10/04/23 20:21	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/04/23 20:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*		*10/04/23 20:21*	*1*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*10/04/23 20:21*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*10/04/23 20:21*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*10/04/23 20:21*	*1*

Client Sample ID: LC34-DPT0950-013.0-20230929

Lab Sample ID: 670-27764-20

Date Collected: 09/28/23 12:40
Matrix: Water
Date Received: 09/30/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/07/23 19:18	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/07/23 19:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/07/23 19:18	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/07/23 19:18	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/07/23 19:18	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/07/23 19:18	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/07/23 19:18	1
1,2-Dibromo-3-Chloropropane	1.8	U J3	5.0	1.8	ug/L			10/07/23 19:18	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27764-1
SDG: 670-27764

Client Sample ID: LC34-DPT0950-013.0-20230929
Date Collected: 09/28/23 12:40
Date Received: 09/30/23 08:00

Lab Sample ID: 670-27764-20
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/07/23 19:18	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/07/23 19:18	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/07/23 19:18	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/07/23 19:18	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/07/23 19:18	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/07/23 19:18	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/07/23 19:18	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/07/23 19:18	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/07/23 19:18	1
Acetone	3.7	U	10	3.7	ug/L			10/07/23 19:18	1
Benzene	0.27	U	1.0	0.27	ug/L			10/07/23 19:18	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/07/23 19:18	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/07/23 19:18	1
Bromomethane	3.7	U J3	5.0	3.7	ug/L			10/07/23 19:18	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/07/23 19:18	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/07/23 19:18	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/07/23 19:18	1
Chloroethane	4.6	U J3	5.0	4.6	ug/L			10/07/23 19:18	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/07/23 19:18	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/07/23 19:18	1
cis-1,2-Dichloroethene	**150**		1.0	0.25	ug/L			10/07/23 19:18	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/07/23 19:18	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/07/23 19:18	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/07/23 19:18	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/07/23 19:18	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/07/23 19:18	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/07/23 19:18	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/07/23 19:18	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/07/23 19:18	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/07/23 19:18	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/07/23 19:18	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/07/23 19:18	1
Styrene	0.27	U	1.0	0.27	ug/L			10/07/23 19:18	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/07/23 19:18	1
Toluene	0.25	U	1.0	0.25	ug/L			10/07/23 19:18	1
trans-1,2-Dichloroethene	**0.45**	**I**	1.0	0.34	ug/L			10/07/23 19:18	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/07/23 19:18	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/07/23 19:18	1
Trichlorofluoromethane	0.33	U J3	1.0	0.33	ug/L			10/07/23 19:18	1
Vinyl chloride	**130**		1.0	0.40	ug/L			10/07/23 19:18	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/07/23 19:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 124*		*10/07/23 19:18*	*1*
4-Bromofluorobenzene (Surr)	*80*		*70 - 130*		*10/07/23 19:18*	*1*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*10/07/23 19:18*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/07/23 19:18*	*1*

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27764-1
SDG: 670-27764

Client Sample ID: LC34-DPT0950-018.0-20230929
Date Collected: 09/28/23 12:55
Date Received: 09/30/23 08:00

Lab Sample ID: 670-27764-21
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	5.0	1.1	ug/L			10/04/23 22:09	5
1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	ug/L			10/04/23 22:09	5
1,1,2-Trichloro-1,2,2-trifluoroethane	1.2	U	5.0	1.2	ug/L			10/04/23 22:09	5
1,1,2-Trichloroethane	1.6	U	5.0	1.6	ug/L			10/04/23 22:09	5
1,1-Dichloroethane	1.7	U	5.0	1.7	ug/L			10/04/23 22:09	5
1,1-Dichloroethene	1.7	U	5.0	1.7	ug/L			10/04/23 22:09	5
1,2,4-Trichlorobenzene	2.7	U	25	2.7	ug/L			10/04/23 22:09	5
1,2-Dibromo-3-Chloropropane	9.0	U	25	9.0	ug/L			10/04/23 22:09	5
1,2-Dibromoethane (EDB)	1.7	U	5.0	1.7	ug/L			10/04/23 22:09	5
1,2-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/04/23 22:09	5
1,2-Dichloroethane	1.3	U	5.0	1.3	ug/L			10/04/23 22:09	5
1,2-Dichloropropane	1.1	U	5.0	1.1	ug/L			10/04/23 22:09	5
1,3-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/04/23 22:09	5
1,4-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/04/23 22:09	5
2-Butanone (MEK)	32	U	50	32	ug/L			10/04/23 22:09	5
2-Hexanone	16	U	50	16	ug/L			10/04/23 22:09	5
4-Methyl-2-pentanone	14	U	50	14	ug/L			10/04/23 22:09	5
Acetone	19	U	50	19	ug/L			10/04/23 22:09	5
Benzene	1.4	U	5.0	1.4	ug/L			10/04/23 22:09	5
Bromodichloromethane	1.3	U	5.0	1.3	ug/L			10/04/23 22:09	5
Bromoform	3.0	U	5.0	3.0	ug/L			10/04/23 22:09	5
Bromomethane	19	U	25	19	ug/L			10/04/23 22:09	5
Carbon disulfide	2.2	U	10	2.2	ug/L			10/04/23 22:09	5
Carbon tetrachloride	1.5	U	5.0	1.5	ug/L			10/04/23 22:09	5
Chlorobenzene	0.75	U	5.0	0.75	ug/L			10/04/23 22:09	5
Chloroethane	23	U	25	23	ug/L			10/04/23 22:09	5
Chloroform	1.4	U	5.0	1.4	ug/L			10/04/23 22:09	5
Chloromethane	2.7	U	5.0	2.7	ug/L			10/04/23 22:09	5
cis-1,2-Dichloroethene	**300**		5.0	1.3	ug/L			10/04/23 22:09	5
cis-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			10/04/23 22:09	5
Cyclohexane	1.4	U	5.0	1.4	ug/L			10/04/23 22:09	5
Dibromochloromethane	2.0	U	5.0	2.0	ug/L			10/04/23 22:09	5
Dichlorodifluoromethane	1.8	U	5.0	1.8	ug/L			10/04/23 22:09	5
Ethylbenzene	1.0	U	5.0	1.0	ug/L			10/04/23 22:09	5
Isopropylbenzene	1.3	U	5.0	1.3	ug/L			10/04/23 22:09	5
m,p-Xylenes	2.5	U	5.0	2.5	ug/L			10/04/23 22:09	5
Methyl acetate	16	U	25	16	ug/L			10/04/23 22:09	5
Methyl tert-butyl ether	4.1	U	25	4.1	ug/L			10/04/23 22:09	5
Methylene Chloride	16	U	25	16	ug/L			10/04/23 22:09	5
o-Xylene	1.3	U	5.0	1.3	ug/L			10/04/23 22:09	5
Styrene	1.4	U	5.0	1.4	ug/L			10/04/23 22:09	5
Tetrachloroethene	1.8	U	5.0	1.8	ug/L			10/04/23 22:09	5
Toluene	1.3	U	5.0	1.3	ug/L			10/04/23 22:09	5
trans-1,2-Dichloroethene	**2.4**	**I**	5.0	1.7	ug/L			10/04/23 22:09	5
trans-1,3-Dichloropropene	1.2	U	5.0	1.2	ug/L			10/04/23 22:09	5
Trichloroethene	1.0	U	5.0	1.0	ug/L			10/04/23 22:09	5
Trichlorofluoromethane	1.7	U	5.0	1.7	ug/L			10/04/23 22:09	5
Vinyl chloride	**170**		5.0	2.0	ug/L			10/04/23 22:09	5
Xylenes, Total	1.2	U	5.0	1.2	ug/L			10/04/23 22:09	5

Client Sample ID: LC34-DPT0950-018.0-20230929

Lab Sample ID: 670-27764-21

Date Collected: 09/28/23 12:55
Matrix: Water
Date Received: 09/30/23 08:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*		*10/04/23 22:09*	*5*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*10/04/23 22:09*	*5*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*10/04/23 22:09*	*5*
Toluene-d8 (Surr)	*98*		*70 - 130*		*10/04/23 22:09*	*5*

Client Sample ID: LC34-DPT0950-025.0-20230929

Lab Sample ID: 670-27764-22

Date Collected: 09/28/23 13:15
Matrix: Water
Date Received: 09/30/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/07/23 19:41	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/07/23 19:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/07/23 19:41	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/07/23 19:41	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/07/23 19:41	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/07/23 19:41	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/07/23 19:41	1
1,2-Dibromo-3-Chloropropane	1.8	U J3	5.0	1.8	ug/L			10/07/23 19:41	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/07/23 19:41	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/07/23 19:41	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/07/23 19:41	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/07/23 19:41	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/07/23 19:41	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/07/23 19:41	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/07/23 19:41	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/07/23 19:41	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/07/23 19:41	1
Acetone	3.7	U	10	3.7	ug/L			10/07/23 19:41	1
Benzene	0.27	U	1.0	0.27	ug/L			10/07/23 19:41	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/07/23 19:41	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/07/23 19:41	1
Bromomethane	3.7	U J3	5.0	3.7	ug/L			10/07/23 19:41	1
Carbon disulfide	**1.1**	**I**	2.0	0.43	ug/L			10/07/23 19:41	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/07/23 19:41	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/07/23 19:41	1
Chloroethane	4.6	U J3	5.0	4.6	ug/L			10/07/23 19:41	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/07/23 19:41	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/07/23 19:41	1
cis-1,2-Dichloroethene	**2.6**		1.0	0.25	ug/L			10/07/23 19:41	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/07/23 19:41	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/07/23 19:41	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/07/23 19:41	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/07/23 19:41	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/07/23 19:41	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/07/23 19:41	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/07/23 19:41	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/07/23 19:41	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/07/23 19:41	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/07/23 19:41	1

Client Sample ID: LC34-DPT0950-025.0-20230929

Lab Sample ID: 670-27764-22

Date Collected: 09/28/23 13:15

Matrix: Water

Date Received: 09/30/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	0.26	U	1.0	0.26	ug/L			10/07/23 19:41	1
Styrene	0.27	U	1.0	0.27	ug/L			10/07/23 19:41	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/07/23 19:41	1
Toluene	0.25	U	1.0	0.25	ug/L			10/07/23 19:41	1
trans-1,2-Dichloroethene	**150**		1.0	0.34	ug/L			10/07/23 19:41	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/07/23 19:41	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/07/23 19:41	1
Trichlorofluoromethane	0.33	U J3	1.0	0.33	ug/L			10/07/23 19:41	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/07/23 19:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 124*		*10/07/23 19:41*	*1*
4-Bromofluorobenzene (Surr)	*81*		*70 - 130*		*10/07/23 19:41*	*1*
Dibromofluoromethane (Surr)	*111*		*70 - 130*		*10/07/23 19:41*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/07/23 19:41*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	**460**		10	4.0	ug/L			10/09/23 19:26	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 124*		*10/09/23 19:26*	*10*
4-Bromofluorobenzene (Surr)	*81*		*70 - 130*		*10/09/23 19:26*	*10*
Dibromofluoromethane (Surr)	*111*		*70 - 130*		*10/09/23 19:26*	*10*
Toluene-d8 (Surr)	*102*		*70 - 130*		*10/09/23 19:26*	*10*

Client Sample ID: LC34-DPT0950-034.0-20230929

Lab Sample ID: 670-27764-23

Date Collected: 09/28/23 13:35

Matrix: Water

Date Received: 09/30/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	5.0	1.1	ug/L			10/04/23 22:30	5
1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	ug/L			10/04/23 22:30	5
1,1,2-Trichloro-1,2,2-trifluoroethane	1.2	U	5.0	1.2	ug/L			10/04/23 22:30	5
1,1,2-Trichloroethane	1.6	U	5.0	1.6	ug/L			10/04/23 22:30	5
1,1-Dichloroethane	1.7	U	5.0	1.7	ug/L			10/04/23 22:30	5
1,1-Dichloroethene	1.7	U	5.0	1.7	ug/L			10/04/23 22:30	5
1,2,4-Trichlorobenzene	2.7	U	25	2.7	ug/L			10/04/23 22:30	5
1,2-Dibromo-3-Chloropropane	9.0	U	25	9.0	ug/L			10/04/23 22:30	5
1,2-Dibromoethane (EDB)	1.7	U	5.0	1.7	ug/L			10/04/23 22:30	5
1,2-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/04/23 22:30	5
1,2-Dichloroethane	1.3	U	5.0	1.3	ug/L			10/04/23 22:30	5
1,2-Dichloropropane	1.1	U	5.0	1.1	ug/L			10/04/23 22:30	5
1,3-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/04/23 22:30	5
1,4-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/04/23 22:30	5
2-Butanone (MEK)	32	U	50	32	ug/L			10/04/23 22:30	5
2-Hexanone	16	U	50	16	ug/L			10/04/23 22:30	5
4-Methyl-2-pentanone	14	U	50	14	ug/L			10/04/23 22:30	5
Acetone	19	U	50	19	ug/L			10/04/23 22:30	5
Benzene	1.4	U	5.0	1.4	ug/L			10/04/23 22:30	5

Client Sample ID: LC34-DPT0950-034.0-20230929

Lab Sample ID: 670-27764-23

Date Collected: 09/28/23 13:35

Matrix: Water

Date Received: 09/30/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	1.3	U	5.0	1.3	ug/L			10/04/23 22:30	5
Bromoform	3.0	U	5.0	3.0	ug/L			10/04/23 22:30	5
Bromomethane	19	U	25	19	ug/L			10/04/23 22:30	5
Carbon disulfide	2.2	U	10	2.2	ug/L			10/04/23 22:30	5
Carbon tetrachloride	1.5	U	5.0	1.5	ug/L			10/04/23 22:30	5
Chlorobenzene	0.75	U	5.0	0.75	ug/L			10/04/23 22:30	5
Chloroethane	23	U	25	23	ug/L			10/04/23 22:30	5
Chloroform	1.4	U	5.0	1.4	ug/L			10/04/23 22:30	5
Chloromethane	2.7	U	5.0	2.7	ug/L			10/04/23 22:30	5
cis-1,2-Dichloroethene	**4.7**	**I**	5.0	1.3	ug/L			10/04/23 22:30	5
cis-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			10/04/23 22:30	5
Cyclohexane	1.4	U	5.0	1.4	ug/L			10/04/23 22:30	5
Dibromochloromethane	2.0	U	5.0	2.0	ug/L			10/04/23 22:30	5
Dichlorodifluoromethane	1.8	U	5.0	1.8	ug/L			10/04/23 22:30	5
Ethylbenzene	1.0	U	5.0	1.0	ug/L			10/04/23 22:30	5
Isopropylbenzene	1.3	U	5.0	1.3	ug/L			10/04/23 22:30	5
m,p-Xylenes	2.5	U	5.0	2.5	ug/L			10/04/23 22:30	5
Methyl acetate	16	U	25	16	ug/L			10/04/23 22:30	5
Methyl tert-butyl ether	4.1	U	25	4.1	ug/L			10/04/23 22:30	5
Methylene Chloride	16	U	25	16	ug/L			10/04/23 22:30	5
o-Xylene	1.3	U	5.0	1.3	ug/L			10/04/23 22:30	5
Styrene	1.4	U	5.0	1.4	ug/L			10/04/23 22:30	5
Tetrachloroethene	1.8	U	5.0	1.8	ug/L			10/04/23 22:30	5
Toluene	1.3	U	5.0	1.3	ug/L			10/04/23 22:30	5
trans-1,2-Dichloroethene	**37**		5.0	1.7	ug/L			10/04/23 22:30	5
trans-1,3-Dichloropropene	1.2	U	5.0	1.2	ug/L			10/04/23 22:30	5
Trichloroethene	1.0	U	5.0	1.0	ug/L			10/04/23 22:30	5
Trichlorofluoromethane	1.7	U	5.0	1.7	ug/L			10/04/23 22:30	5
Vinyl chloride	**660**		5.0	2.0	ug/L			10/04/23 22:30	5
Xylenes, Total	1.2	U	5.0	1.2	ug/L			10/04/23 22:30	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*		*10/04/23 22:30*	*5*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*10/04/23 22:30*	*5*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*10/04/23 22:30*	*5*
Toluene-d8 (Surr)	*95*		*70 - 130*		*10/04/23 22:30*	*5*

Client Sample ID: LC34-DPT0950-038.0-20230929

Lab Sample ID: 670-27764-24

Date Collected: 09/28/23 13:55

Matrix: Water

Date Received: 09/30/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/04/23 20:43	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/04/23 20:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/04/23 20:43	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/04/23 20:43	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/04/23 20:43	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/04/23 20:43	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/04/23 20:43	1

Client Sample ID: LC34-DPT0950-038.0-20230929
Date Collected: 09/28/23 13:55
Date Received: 09/30/23 08:00

Lab Sample ID: 670-27764-24
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/04/23 20:43	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/04/23 20:43	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/04/23 20:43	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/04/23 20:43	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/04/23 20:43	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/04/23 20:43	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/04/23 20:43	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/04/23 20:43	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/04/23 20:43	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/04/23 20:43	1
Acetone	3.7	U	10	3.7	ug/L			10/04/23 20:43	1
Benzene	0.27	U	1.0	0.27	ug/L			10/04/23 20:43	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/04/23 20:43	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/04/23 20:43	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/04/23 20:43	1
Carbon disulfide	**0.78**	**I**	2.0	0.43	ug/L			10/04/23 20:43	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/04/23 20:43	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/04/23 20:43	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/04/23 20:43	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/04/23 20:43	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/04/23 20:43	1
cis-1,2-Dichloroethene	**0.34**	**I**	1.0	0.25	ug/L			10/04/23 20:43	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/04/23 20:43	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/04/23 20:43	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/04/23 20:43	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/04/23 20:43	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/04/23 20:43	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/04/23 20:43	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/04/23 20:43	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/04/23 20:43	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/04/23 20:43	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/04/23 20:43	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/04/23 20:43	1
Styrene	0.27	U	1.0	0.27	ug/L			10/04/23 20:43	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/04/23 20:43	1
Toluene	0.25	U	1.0	0.25	ug/L			10/04/23 20:43	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/04/23 20:43	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/04/23 20:43	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/04/23 20:43	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/04/23 20:43	1
Vinyl chloride	**0.83**	**I**	1.0	0.40	ug/L			10/04/23 20:43	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/04/23 20:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*		*10/04/23 20:43*	*1*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*10/04/23 20:43*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*10/04/23 20:43*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*10/04/23 20:43*	*1*

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27764-1
SDG: 670-27764

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(60-124)	(70-130)	(70-130)	(70-130)
670-27764-1	LC34-DPT0947-008.0-20230928	103	80	110	101
670-27764-2	LC34-DPT0947-013.0-20230928	102	79	110	102
670-27764-3	LC34-DPT0947-018.0-20230928	95	93	95	96
670-27764-4	LC34-DPT0947-025.0-20230928	95	92	96	97
670-27764-5	LC34-DPT0947-034.0-20230928	102	79	110	101
670-27764-6	LC34-DPT0947-038.0-20230928	103	81	110	102
670-27764-7	LC34-DPT0948-008.0-20230929	104	79	111	102
670-27764-8	LC34-DPT0948-013.0-20230929	94	93	96	96
670-27764-9	LC34-DPT0948-018.0-20230929	95	93	96	96
670-27764-10	LC34-DPT0948-025.0-20230929	103	80	110	101
670-27764-10 - DL	LC34-DPT0948-025.0-20230929	102	81	109	101
670-27764-11	LC34-DPT0948-034.0-20230929	104	80	110	100
670-27764-11	LC34-DPT0948-034.0-20230929	103	80	109	100
670-27764-12	LC34-DPT0948-038.0-20230929	103	79	108	100
670-27764-13	LC34-DPT0949-008.0-20230929	102	78	111	100
670-27764-14	LC34-DPT0949-013.0-20230929	103	80	110	101
670-27764-15	LC34-DPT0949-018.0-20230929	92	93	95	95
670-27764-16	LC34-DPT0949-025.0-20230929	93	93	94	96
670-27764-17	LC34-DPT0949-034.0-20230929	102	82	110	100
670-27764-17 - DL	LC34-DPT0949-034.0-20230929	106	98	119	113
670-27764-18	LC34-DPT0949-038.0-20230929	102	79	111	101
670-27764-19	LC34-DPT0950-008.0-20230929	94	93	97	97
670-27764-20	LC34-DPT0950-013.0-20230929	102	80	109	101
670-27764-21	LC34-DPT0950-018.0-20230929	94	94	98	98
670-27764-22	LC34-DPT0950-025.0-20230929	104	81	111	101
670-27764-22 - DL	LC34-DPT0950-025.0-20230929	101	81	111	102
670-27764-23	LC34-DPT0950-034.0-20230929	94	92	96	95
670-27764-24	LC34-DPT0950-038.0-20230929	94	93	96	96
680-241172-C-7 MS	Matrix Spike	97	111	96	116

Surrogate Summary

Client: Tetra Tech, Inc.
Job ID: 670-27764-1
Project/Site: NASA KSC LC34 DPT
SDG: 670-27764

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Matrix: Water
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(60-124)	(70-130)	(70-130)	(70-130)
680-241172-C-7 MSD	Matrix Spike Duplicate	97	113	94	115
LCS 680-800978/4	Lab Control Sample	97	93	100	99
LCS 680-801481/4	Lab Control Sample	111	88	113	100
LCS 680-801631/4	Lab Control Sample	109	91	113	102
LCS 680-801819/3	Lab Control Sample	103	110	101	114
LCSD 680-800978/5	Lab Control Sample Dup	97	94	98	100
LCSD 680-801481/5	Lab Control Sample Dup	113	89	116	100
LCSD 680-801631/5	Lab Control Sample Dup	114	91	116	102
LCSD 680-801819/4	Lab Control Sample Dup	104	109	100	114
MB 680-800978/8	Method Blank	94	95	95	96
MB 680-801481/8	Method Blank	104	78	110	101
MB 680-801631/8	Method Blank	101	77	109	101
MB 680-801819/7	Method Blank	108	101	125	116

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 680-800978/8
Matrix: Water
Analysis Batch: 800978

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/04/23 14:52	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/04/23 14:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/04/23 14:52	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/04/23 14:52	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/04/23 14:52	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/04/23 14:52	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/04/23 14:52	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/04/23 14:52	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/04/23 14:52	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/04/23 14:52	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/04/23 14:52	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/04/23 14:52	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/04/23 14:52	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/04/23 14:52	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/04/23 14:52	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/04/23 14:52	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/04/23 14:52	1
Acetone	3.7	U	10	3.7	ug/L			10/04/23 14:52	1
Benzene	0.27	U	1.0	0.27	ug/L			10/04/23 14:52	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/04/23 14:52	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/04/23 14:52	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/04/23 14:52	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/04/23 14:52	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/04/23 14:52	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/04/23 14:52	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/04/23 14:52	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/04/23 14:52	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/04/23 14:52	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/04/23 14:52	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/04/23 14:52	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/04/23 14:52	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/04/23 14:52	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/04/23 14:52	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/04/23 14:52	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/04/23 14:52	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/04/23 14:52	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/04/23 14:52	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/04/23 14:52	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/04/23 14:52	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/04/23 14:52	1
Styrene	0.27	U	1.0	0.27	ug/L			10/04/23 14:52	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/04/23 14:52	1
Toluene	0.25	U	1.0	0.25	ug/L			10/04/23 14:52	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/04/23 14:52	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/04/23 14:52	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/04/23 14:52	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/04/23 14:52	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/04/23 14:52	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-800978/8
Matrix: Water
Analysis Batch: 800978

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/04/23 14:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*		*10/04/23 14:52*	*1*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*10/04/23 14:52*	*1*
Dibromofluoromethane (Surr)	*95*		*70 - 130*		*10/04/23 14:52*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*10/04/23 14:52*	*1*

Lab Sample ID: LCS 680-800978/4
Matrix: Water
Analysis Batch: 800978

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	50.9		ug/L		102	70 - 130
1,1,2,2-Tetrachloroethane	50.0	49.3		ug/L		99	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	51.2		ug/L		102	63 - 141
1,1,2-Trichloroethane	50.0	48.7		ug/L		97	70 - 130
1,1-Dichloroethane	50.0	49.4		ug/L		99	70 - 130
1,1-Dichloroethene	50.0	48.7		ug/L		97	70 - 130
1,2,4-Trichlorobenzene	50.0	48.5		ug/L		97	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	50.5		ug/L		101	70 - 130
1,2-Dibromoethane (EDB)	50.0	50.5		ug/L		101	70 - 130
1,2-Dichlorobenzene	50.0	49.5		ug/L		99	70 - 130
1,2-Dichloroethane	50.0	51.0		ug/L		102	70 - 130
1,2-Dichloropropane	50.0	48.8		ug/L		98	70 - 130
1,3-Dichlorobenzene	50.0	49.3		ug/L		99	70 - 130
1,4-Dichlorobenzene	50.0	49.5		ug/L		99	70 - 130
2-Butanone (MEK)	250	242		ug/L		97	69 - 120
2-Hexanone	250	257		ug/L		103	70 - 130
4-Methyl-2-pentanone	250	255		ug/L		102	68 - 120
Acetone	250	244		ug/L		98	67 - 120
Benzene	50.0	49.8		ug/L		100	70 - 130
Bromodichloromethane	50.0	49.6		ug/L		99	70 - 130
Bromoform	50.0	51.7		ug/L		103	69 - 129
Bromomethane	50.0	65.6		ug/L		131	28 - 192
Carbon disulfide	50.0	49.4		ug/L		99	70 - 130
Carbon tetrachloride	50.0	51.9		ug/L		104	70 - 130
Chlorobenzene	50.0	49.9		ug/L		100	70 - 130
Chloroethane	50.0	66.9		ug/L		134	31 - 213
Chloroform	50.0	47.3		ug/L		95	70 - 130
Chloromethane	50.0	49.8		ug/L		100	59 - 127
cis-1,2-Dichloroethene	50.0	48.6		ug/L		97	70 - 130
cis-1,3-Dichloropropene	50.0	50.1		ug/L		100	70 - 130
Cyclohexane	50.0	49.5		ug/L		99	23 - 175
Dibromochloromethane	50.0	51.7		ug/L		103	70 - 130
Dichlorodifluoromethane	50.0	52.1		ug/L		104	70 - 130
Ethylbenzene	50.0	49.9		ug/L		100	70 - 130
Isopropylbenzene	50.0	50.7		ug/L		101	70 - 130

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-800978/4
Matrix: Water
Analysis Batch: 800978

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
m,p-Xylenes			50.0	50.4		ug/L		101	70 - 130		
Methyl acetate			100	94.6		ug/L		95	67 - 120		
Methyl tert-butyl ether			50.0	49.5		ug/L		99	70 - 130		
Methylene Chloride			50.0	47.2		ug/L		94	70 - 130		
o-Xylene			50.0	49.5		ug/L		99	70 - 130		
Styrene			50.0	50.1		ug/L		100	70 - 130		
Tetrachloroethene			50.0	52.0		ug/L		104	70 - 130		
Toluene			50.0	49.9		ug/L		100	70 - 130		
trans-1,2-Dichloroethene			50.0	48.9		ug/L		98	70 - 130		
trans-1,3-Dichloropropene			50.0	49.6		ug/L		99	70 - 130		
Trichloroethene			50.0	50.6		ug/L		101	70 - 130		
Trichlorofluoromethane			50.0	52.4		ug/L		105	63 - 142		
Vinyl chloride			50.0	50.6		ug/L		101	66 - 129		
Xylenes, Total			100	99.9		ug/L		100	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 124*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*
Dibromofluoromethane (Surr)	*100*		*70 - 130*
Toluene-d8 (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 680-800978/5
Matrix: Water
Analysis Batch: 800978

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane			50.0	50.3		ug/L		101	70 - 130	1	30
1,1,2,2-Tetrachloroethane			50.0	51.2		ug/L		102	70 - 130	4	30
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	50.3		ug/L		101	63 - 141	2	30
1,1,2-Trichloroethane			50.0	48.8		ug/L		98	70 - 130	0	30
1,1-Dichloroethane			50.0	49.2		ug/L		98	70 - 130	0	30
1,1-Dichloroethene			50.0	48.8		ug/L		98	70 - 130	0	20
1,2,4-Trichlorobenzene			50.0	49.0		ug/L		98	70 - 130	1	30
1,2-Dibromo-3-Chloropropane			50.0	52.9		ug/L		106	70 - 130	5	30
1,2-Dibromoethane (EDB)			50.0	51.1		ug/L		102	70 - 130	1	30
1,2-Dichlorobenzene			50.0	49.9		ug/L		100	70 - 130	1	30
1,2-Dichloroethane			50.0	50.6		ug/L		101	70 - 130	1	50
1,2-Dichloropropane			50.0	48.7		ug/L		97	70 - 130	0	20
1,3-Dichlorobenzene			50.0	49.0		ug/L		98	70 - 130	1	30
1,4-Dichlorobenzene			50.0	49.6		ug/L		99	70 - 130	0	30
2-Butanone (MEK)			250	264		ug/L		106	69 - 120	9	30
2-Hexanone			250	272		ug/L		109	70 - 130	6	20
4-Methyl-2-pentanone			250	269		ug/L		107	68 - 120	5	30
Acetone			250	256		ug/L		103	67 - 120	5	30
Benzene			50.0	49.3		ug/L		99	70 - 130	1	30
Bromodichloromethane			50.0	50.4		ug/L		101	70 - 130	2	30
Bromoform			50.0	53.0		ug/L		106	69 - 129	2	30
Bromomethane			50.0	57.2		ug/L		114	28 - 192	14	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-800978/5
Matrix: Water
Analysis Batch: 800978

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon disulfide			50.0	47.3		ug/L		95	70 - 130	4	30
Carbon tetrachloride			50.0	51.4		ug/L		103	70 - 130	1	30
Chlorobenzene			50.0	50.3		ug/L		101	70 - 130	1	30
Chloroethane			50.0	54.5		ug/L		109	31 - 213	20	30
Chloroform			50.0	46.9		ug/L		94	70 - 130	1	30
Chloromethane			50.0	48.3		ug/L		97	59 - 127	3	30
cis-1,2-Dichloroethene			50.0	48.4		ug/L		97	70 - 130	0	30
cis-1,3-Dichloropropene			50.0	50.2		ug/L		100	70 - 130	0	20
Cyclohexane			50.0	49.1		ug/L		98	23 - 175	1	30
Dibromochloromethane			50.0	51.7		ug/L		103	70 - 130	0	30
Dichlorodifluoromethane			50.0	51.5		ug/L		103	70 - 130	1	40
Ethylbenzene			50.0	50.1		ug/L		100	70 - 130	0	20
Isopropylbenzene			50.0	50.8		ug/L		102	70 - 130	0	30
m,p-Xylenes			50.0	50.2		ug/L		100	70 - 130	0	30
Methyl acetate			100	98.5		ug/L		98	67 - 120	4	30
Methyl tert-butyl ether			50.0	50.0		ug/L		100	70 - 130	1	30
Methylene Chloride			50.0	47.6		ug/L		95	70 - 130	1	30
o-Xylene			50.0	49.8		ug/L		100	70 - 130	1	30
Styrene			50.0	50.2		ug/L		100	70 - 130	0	30
Tetrachloroethene			50.0	50.8		ug/L		102	70 - 130	2	30
Toluene			50.0	49.8		ug/L		100	70 - 130	0	30
trans-1,2-Dichloroethene			50.0	48.2		ug/L		96	70 - 130	1	30
trans-1,3-Dichloropropene			50.0	50.1		ug/L		100	70 - 130	1	30
Trichloroethene			50.0	50.3		ug/L		101	70 - 130	1	30
Trichlorofluoromethane			50.0	51.6		ug/L		103	63 - 142	1	30
Vinyl chloride			50.0	48.7		ug/L		97	66 - 129	4	30
Xylenes, Total			100	100		ug/L		100	70 - 130	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 124*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
Dibromofluoromethane (Surr)	*98*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

Lab Sample ID: MB 680-801481/8
Matrix: Water
Analysis Batch: 801481

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/07/23 15:24	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/07/23 15:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/07/23 15:24	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/07/23 15:24	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/07/23 15:24	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/07/23 15:24	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/07/23 15:24	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/07/23 15:24	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/07/23 15:24	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27764-1
SDG: 670-27764

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-801481/8
Matrix: Water
Analysis Batch: 801481

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/07/23 15:24	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/07/23 15:24	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/07/23 15:24	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/07/23 15:24	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/07/23 15:24	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/07/23 15:24	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/07/23 15:24	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/07/23 15:24	1
Acetone	3.7	U	10	3.7	ug/L			10/07/23 15:24	1
Benzene	0.27	U	1.0	0.27	ug/L			10/07/23 15:24	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/07/23 15:24	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/07/23 15:24	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/07/23 15:24	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/07/23 15:24	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/07/23 15:24	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/07/23 15:24	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/07/23 15:24	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/07/23 15:24	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/07/23 15:24	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/07/23 15:24	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/07/23 15:24	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/07/23 15:24	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/07/23 15:24	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/07/23 15:24	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/07/23 15:24	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/07/23 15:24	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/07/23 15:24	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/07/23 15:24	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/07/23 15:24	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/07/23 15:24	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/07/23 15:24	1
Styrene	0.27	U	1.0	0.27	ug/L			10/07/23 15:24	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/07/23 15:24	1
Toluene	0.25	U	1.0	0.25	ug/L			10/07/23 15:24	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/07/23 15:24	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/07/23 15:24	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/07/23 15:24	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/07/23 15:24	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/07/23 15:24	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/07/23 15:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 124*		*10/07/23 15:24*	*1*
4-Bromofluorobenzene (Surr)	*78*		*70 - 130*		*10/07/23 15:24*	*1*
Dibromofluoromethane (Surr)	*110*		*70 - 130*		*10/07/23 15:24*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/07/23 15:24*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-801481/4
Matrix: Water
Analysis Batch: 801481

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	50.4		ug/L		101	70 - 130
1,1,2,2-Tetrachloroethane	50.0	44.9		ug/L		90	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	52.3		ug/L		105	63 - 141
1,1,2-Trichloroethane	50.0	47.3		ug/L		95	70 - 130
1,1-Dichloroethane	50.0	45.1		ug/L		90	70 - 130
1,1-Dichloroethene	50.0	46.0		ug/L		92	70 - 130
1,2,4-Trichlorobenzene	50.0	42.5		ug/L		85	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	33.9	J3	ug/L		68	70 - 130
1,2-Dibromoethane (EDB)	50.0	50.9		ug/L		102	70 - 130
1,2-Dichlorobenzene	50.0	46.4		ug/L		93	70 - 130
1,2-Dichloroethane	50.0	51.3		ug/L		103	70 - 130
1,2-Dichloropropane	50.0	44.1		ug/L		88	70 - 130
1,3-Dichlorobenzene	50.0	47.0		ug/L		94	70 - 130
1,4-Dichlorobenzene	50.0	47.8		ug/L		96	70 - 130
2-Butanone (MEK)	250	216		ug/L		86	69 - 120
2-Hexanone	250	212		ug/L		85	70 - 130
4-Methyl-2-pentanone	250	224		ug/L		90	68 - 120
Acetone	250	202		ug/L		81	67 - 120
Benzene	50.0	45.6		ug/L		91	70 - 130
Bromodichloromethane	50.0	49.7		ug/L		99	70 - 130
Bromoform	50.0	53.7		ug/L		107	69 - 129
Bromomethane	50.0	88.9		ug/L		178	28 - 192
Carbon disulfide	50.0	44.6		ug/L		89	70 - 130
Carbon tetrachloride	50.0	55.9		ug/L		112	70 - 130
Chlorobenzene	50.0	50.7		ug/L		101	70 - 130
Chloroethane	50.0	121	J3	ug/L		242	31 - 213
Chloroform	50.0	50.9		ug/L		102	70 - 130
Chloromethane	50.0	36.1		ug/L		72	59 - 127
cis-1,2-Dichloroethene	50.0	47.4		ug/L		95	70 - 130
cis-1,3-Dichloropropene	50.0	46.9		ug/L		94	70 - 130
Cyclohexane	50.0	44.1		ug/L		88	23 - 175
Dibromochloromethane	50.0	53.4		ug/L		107	70 - 130
Dichlorodifluoromethane	50.0	53.4		ug/L		107	70 - 130
Ethylbenzene	50.0	49.4		ug/L		99	70 - 130
Isopropylbenzene	50.0	50.4		ug/L		101	70 - 130
m,p-Xylenes	50.0	48.4		ug/L		97	70 - 130
Methyl acetate	100	72.9		ug/L		73	67 - 120
Methyl tert-butyl ether	50.0	47.6		ug/L		95	70 - 130
Methylene Chloride	50.0	50.2		ug/L		100	70 - 130
o-Xylene	50.0	48.6		ug/L		97	70 - 130
Styrene	50.0	49.4		ug/L		99	70 - 130
Tetrachloroethene	50.0	54.3		ug/L		109	70 - 130
Toluene	50.0	47.0		ug/L		94	70 - 130
trans-1,2-Dichloroethene	50.0	48.0		ug/L		96	70 - 130
trans-1,3-Dichloropropene	50.0	49.6		ug/L		99	70 - 130
Trichloroethene	50.0	50.9		ug/L		102	70 - 130
Trichlorofluoromethane	50.0	109	J3	ug/L		218	63 - 142
Vinyl chloride	50.0	44.3		ug/L		89	66 - 129

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-801481/4
Matrix: Water
Analysis Batch: 801481

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Xylenes, Total			100	97.0		ug/L		97	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*111*		*60 - 124*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*
Dibromofluoromethane (Surr)	*113*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 680-801481/5
Matrix: Water
Analysis Batch: 801481

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane			50.0	50.3		ug/L		101	70 - 130	0	30
1,1,2,2-Tetrachloroethane			50.0	46.5		ug/L		93	70 - 130	3	30
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	51.8		ug/L		104	63 - 141	1	30
1,1,2-Trichloroethane			50.0	48.1		ug/L		96	70 - 130	2	30
1,1-Dichloroethane			50.0	45.2		ug/L		90	70 - 130	0	30
1,1-Dichloroethene			50.0	45.1		ug/L		90	70 - 130	2	20
1,2,4-Trichlorobenzene			50.0	43.0		ug/L		86	70 - 130	1	30
1,2-Dibromo-3-Chloropropane			50.0	34.6	J3	ug/L		69	70 - 130	2	30
1,2-Dibromoethane (EDB)			50.0	51.9		ug/L		104	70 - 130	2	30
1,2-Dichlorobenzene			50.0	46.5		ug/L		93	70 - 130	0	30
1,2-Dichloroethane			50.0	53.3		ug/L		107	70 - 130	4	50
1,2-Dichloropropane			50.0	44.8		ug/L		90	70 - 130	2	20
1,3-Dichlorobenzene			50.0	47.0		ug/L		94	70 - 130	0	30
1,4-Dichlorobenzene			50.0	47.6		ug/L		95	70 - 130	0	30
2-Butanone (MEK)			250	220		ug/L		88	69 - 120	2	30
2-Hexanone			250	216		ug/L		86	70 - 130	2	20
4-Methyl-2-pentanone			250	229		ug/L		92	68 - 120	2	30
Acetone			250	207		ug/L		83	67 - 120	2	30
Benzene			50.0	45.7		ug/L		91	70 - 130	0	30
Bromodichloromethane			50.0	51.1		ug/L		102	70 - 130	3	30
Bromoform			50.0	55.6		ug/L		111	69 - 129	4	30
Bromomethane			50.0	99.6	J3	ug/L		199	28 - 192	11	30
Carbon disulfide			50.0	43.4		ug/L		87	70 - 130	3	30
Carbon tetrachloride			50.0	55.0		ug/L		110	70 - 130	2	30
Chlorobenzene			50.0	51.1		ug/L		102	70 - 130	1	30
Chloroethane			50.0	116	J3	ug/L		232	31 - 213	4	30
Chloroform			50.0	51.6		ug/L		103	70 - 130	1	30
Chloromethane			50.0	36.1		ug/L		72	59 - 127	0	30
cis-1,2-Dichloroethene			50.0	48.4		ug/L		97	70 - 130	2	30
cis-1,3-Dichloropropene			50.0	47.3		ug/L		95	70 - 130	1	20
Cyclohexane			50.0	43.5		ug/L		87	23 - 175	1	30
Dibromochloromethane			50.0	54.6		ug/L		109	70 - 130	2	30
Dichlorodifluoromethane			50.0	54.2		ug/L		108	70 - 130	2	40
Ethylbenzene			50.0	48.6		ug/L		97	70 - 130	1	20
Isopropylbenzene			50.0	49.3		ug/L		99	70 - 130	2	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-801481/5
Matrix: Water
Analysis Batch: 801481

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m,p-Xylenes			50.0	47.8		ug/L		96	70 - 130	1	30
Methyl acetate			100	76.1		ug/L		76	67 - 120	4	30
Methyl tert-butyl ether			50.0	48.8		ug/L		98	70 - 130	2	30
Methylene Chloride			50.0	51.5		ug/L		103	70 - 130	3	30
o-Xylene			50.0	48.3		ug/L		97	70 - 130	1	30
Styrene			50.0	49.2		ug/L		98	70 - 130	0	30
Tetrachloroethene			50.0	53.3		ug/L		107	70 - 130	2	30
Toluene			50.0	46.5		ug/L		93	70 - 130	1	30
trans-1,2-Dichloroethene			50.0	47.3		ug/L		95	70 - 130	1	30
trans-1,3-Dichloropropene			50.0	49.9		ug/L		100	70 - 130	0	30
Trichloroethene			50.0	50.8		ug/L		102	70 - 130	0	30
Trichlorofluoromethane			50.0	109	J3	ug/L		219	63 - 142	0	30
Vinyl chloride			50.0	44.9		ug/L		90	66 - 129	1	30
Xylenes, Total			100	96.1		ug/L		96	70 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*113*		*60 - 124*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*
Dibromofluoromethane (Surr)	*116*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

Lab Sample ID: MB 680-801631/8
Matrix: Water
Analysis Batch: 801631

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/09/23 12:53	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/09/23 12:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/09/23 12:53	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/09/23 12:53	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/09/23 12:53	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/09/23 12:53	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/09/23 12:53	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/09/23 12:53	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/09/23 12:53	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 12:53	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/09/23 12:53	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/09/23 12:53	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 12:53	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 12:53	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/09/23 12:53	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/09/23 12:53	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/09/23 12:53	1
Acetone	3.7	U	10	3.7	ug/L			10/09/23 12:53	1
Benzene	0.27	U	1.0	0.27	ug/L			10/09/23 12:53	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/09/23 12:53	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/09/23 12:53	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/09/23 12:53	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-801631/8
Matrix: Water
Analysis Batch: 801631

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/09/23 12:53	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/09/23 12:53	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/09/23 12:53	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/09/23 12:53	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/09/23 12:53	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/09/23 12:53	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/09/23 12:53	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/09/23 12:53	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/09/23 12:53	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/09/23 12:53	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/09/23 12:53	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/09/23 12:53	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/09/23 12:53	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/09/23 12:53	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/09/23 12:53	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/09/23 12:53	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/09/23 12:53	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/09/23 12:53	1
Styrene	0.27	U	1.0	0.27	ug/L			10/09/23 12:53	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/09/23 12:53	1
Toluene	0.25	U	1.0	0.25	ug/L			10/09/23 12:53	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/09/23 12:53	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/09/23 12:53	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/09/23 12:53	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/09/23 12:53	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/09/23 12:53	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/09/23 12:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 124*		*10/09/23 12:53*	*1*
4-Bromofluorobenzene (Surr)	*77*		*70 - 130*		*10/09/23 12:53*	*1*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*10/09/23 12:53*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/09/23 12:53*	*1*

Lab Sample ID: LCS 680-801631/4
Matrix: Water
Analysis Batch: 801631

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	49.8		ug/L		100	70 - 130
1,1,2,2-Tetrachloroethane	50.0	44.0		ug/L		88	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	51.7		ug/L		103	63 - 141
1,1,2-Trichloroethane	50.0	46.2		ug/L		92	70 - 130
1,1-Dichloroethane	50.0	44.1		ug/L		88	70 - 130
1,1-Dichloroethene	50.0	45.3		ug/L		91	70 - 130
1,2,4-Trichlorobenzene	50.0	45.0		ug/L		90	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	33.7	J3	ug/L		67	70 - 130
1,2-Dibromoethane (EDB)	50.0	49.8		ug/L		100	70 - 130

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-801631/4
Matrix: Water
Analysis Batch: 801631

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichlorobenzene	50.0	47.9		ug/L		96	70 - 130
1,2-Dichloroethane	50.0	51.4		ug/L		103	70 - 130
1,2-Dichloropropane	50.0	43.7		ug/L		87	70 - 130
1,3-Dichlorobenzene	50.0	48.4		ug/L		97	70 - 130
1,4-Dichlorobenzene	50.0	48.2		ug/L		96	70 - 130
2-Butanone (MEK)	250	209		ug/L		84	69 - 120
2-Hexanone	250	201		ug/L		81	70 - 130
4-Methyl-2-pentanone	250	217		ug/L		87	68 - 120
Acetone	250	191		ug/L		77	67 - 120
Benzene	50.0	46.0		ug/L		92	70 - 130
Bromodichloromethane	50.0	49.8		ug/L		100	70 - 130
Bromoform	50.0	52.9		ug/L		106	69 - 129
Bromomethane	50.0	90.5		ug/L		181	28 - 192
Carbon disulfide	50.0	44.0		ug/L		88	70 - 130
Carbon tetrachloride	50.0	55.4		ug/L		111	70 - 130
Chlorobenzene	50.0	51.7		ug/L		103	70 - 130
Chloroethane	50.0	125	J3	ug/L		250	31 - 213
Chloroform	50.0	50.7		ug/L		101	70 - 130
Chloromethane	50.0	38.7		ug/L		77	59 - 127
cis-1,2-Dichloroethene	50.0	47.0		ug/L		94	70 - 130
cis-1,3-Dichloropropene	50.0	47.1		ug/L		94	70 - 130
Cyclohexane	50.0	44.0		ug/L		88	23 - 175
Dibromochloromethane	50.0	53.2		ug/L		106	70 - 130
Dichlorodifluoromethane	50.0	46.7		ug/L		93	70 - 130
Ethylbenzene	50.0	50.7		ug/L		101	70 - 130
Isopropylbenzene	50.0	51.7		ug/L		103	70 - 130
m,p-Xylenes	50.0	50.1		ug/L		100	70 - 130
Methyl acetate	100	67.3		ug/L		67	67 - 120
Methyl tert-butyl ether	50.0	46.8		ug/L		94	70 - 130
Methylene Chloride	50.0	50.4		ug/L		101	70 - 130
o-Xylene	50.0	49.2		ug/L		98	70 - 130
Styrene	50.0	50.1		ug/L		100	70 - 130
Tetrachloroethene	50.0	54.0		ug/L		108	70 - 130
Toluene	50.0	46.8		ug/L		94	70 - 130
trans-1,2-Dichloroethene	50.0	47.8		ug/L		96	70 - 130
trans-1,3-Dichloropropene	50.0	48.7		ug/L		97	70 - 130
Trichloroethene	50.0	50.4		ug/L		101	70 - 130
Trichlorofluoromethane	50.0	108	J3	ug/L		215	63 - 142
Vinyl chloride	50.0	44.7		ug/L		89	66 - 129
Xylenes, Total	100	99.3		ug/L		99	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*109*		*60 - 124*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*
Dibromofluoromethane (Surr)	*113*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-801631/5
Matrix: Water
Analysis Batch: 801631

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane			50.0	50.3		ug/L		101	70 - 130	1	30
1,1,2,2-Tetrachloroethane			50.0	45.3		ug/L		91	70 - 130	3	30
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	51.8		ug/L		104	63 - 141	0	30
1,1,2-Trichloroethane			50.0	48.2		ug/L		96	70 - 130	4	30
1,1-Dichloroethane			50.0	45.5		ug/L		91	70 - 130	3	30
1,1-Dichloroethene			50.0	45.3		ug/L		91	70 - 130	0	20
1,2,4-Trichlorobenzene			50.0	44.7		ug/L		89	70 - 130	1	30
1,2-Dibromo-3-Chloropropane			50.0	34.0	J3	ug/L		68	70 - 130	1	30
1,2-Dibromoethane (EDB)			50.0	51.9		ug/L		104	70 - 130	4	30
1,2-Dichlorobenzene			50.0	47.9		ug/L		96	70 - 130	0	30
1,2-Dichloroethane			50.0	53.0		ug/L		106	70 - 130	3	50
1,2-Dichloropropane			50.0	45.3		ug/L		91	70 - 130	4	20
1,3-Dichlorobenzene			50.0	48.1		ug/L		96	70 - 130	1	30
1,4-Dichlorobenzene			50.0	48.6		ug/L		97	70 - 130	1	30
2-Butanone (MEK)			250	217		ug/L		87	69 - 120	4	30
2-Hexanone			250	211		ug/L		84	70 - 130	4	20
4-Methyl-2-pentanone			250	226		ug/L		91	68 - 120	4	30
Acetone			250	206		ug/L		82	67 - 120	7	30
Benzene			50.0	46.5		ug/L		93	70 - 130	1	30
Bromodichloromethane			50.0	51.1		ug/L		102	70 - 130	3	30
Bromoform			50.0	54.4		ug/L		109	69 - 129	3	30
Bromomethane			50.0	96.2		ug/L		192	28 - 192	6	30
Carbon disulfide			50.0	43.4		ug/L		87	70 - 130	1	30
Carbon tetrachloride			50.0	56.0		ug/L		112	70 - 130	1	30
Chlorobenzene			50.0	51.6		ug/L		103	70 - 130	0	30
Chloroethane			50.0	118	J3	ug/L		237	31 - 213	5	30
Chloroform			50.0	52.1		ug/L		104	70 - 130	3	30
Chloromethane			50.0	38.6		ug/L		77	59 - 127	0	30
cis-1,2-Dichloroethene			50.0	47.6		ug/L		95	70 - 130	1	30
cis-1,3-Dichloropropene			50.0	48.1		ug/L		96	70 - 130	2	20
Cyclohexane			50.0	44.0		ug/L		88	23 - 175	0	30
Dibromochloromethane			50.0	54.8		ug/L		110	70 - 130	3	30
Dichlorodifluoromethane			50.0	47.8		ug/L		96	70 - 130	2	40
Ethylbenzene			50.0	50.2		ug/L		100	70 - 130	1	20
Isopropylbenzene			50.0	51.3		ug/L		103	70 - 130	1	30
m,p-Xylenes			50.0	49.7		ug/L		99	70 - 130	1	30
Methyl acetate			100	72.1		ug/L		72	67 - 120	7	30
Methyl tert-butyl ether			50.0	49.1		ug/L		98	70 - 130	5	30
Methylene Chloride			50.0	51.1		ug/L		102	70 - 130	1	30
o-Xylene			50.0	49.5		ug/L		99	70 - 130	0	30
Styrene			50.0	50.3		ug/L		101	70 - 130	0	30
Tetrachloroethene			50.0	54.8		ug/L		110	70 - 130	1	30
Toluene			50.0	47.4		ug/L		95	70 - 130	1	30
trans-1,2-Dichloroethene			50.0	47.4		ug/L		95	70 - 130	1	30
trans-1,3-Dichloropropene			50.0	50.7		ug/L		101	70 - 130	4	30
Trichloroethene			50.0	51.2		ug/L		102	70 - 130	2	30
Trichlorofluoromethane			50.0	108	J3	ug/L		217	63 - 142	1	30
Vinyl chloride			50.0	44.6		ug/L		89	66 - 129	0	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-801631/5
Matrix: Water
Analysis Batch: 801631

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Xylenes, Total			100	99.2		ug/L		99	70 - 130	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*114*		*60 - 124*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*
Dibromofluoromethane (Surr)	*116*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*

Lab Sample ID: MB 680-801819/7
Matrix: Water
Analysis Batch: 801819

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/10/23 12:39	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/10/23 12:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/10/23 12:39	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/10/23 12:39	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/10/23 12:39	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/10/23 12:39	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/10/23 12:39	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/10/23 12:39	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/10/23 12:39	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/10/23 12:39	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/10/23 12:39	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/10/23 12:39	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/10/23 12:39	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/10/23 12:39	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/10/23 12:39	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/10/23 12:39	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/10/23 12:39	1
Acetone	3.7	U	10	3.7	ug/L			10/10/23 12:39	1
Benzene	0.27	U	1.0	0.27	ug/L			10/10/23 12:39	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/10/23 12:39	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/10/23 12:39	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/10/23 12:39	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/10/23 12:39	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/10/23 12:39	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/10/23 12:39	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/10/23 12:39	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/10/23 12:39	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/10/23 12:39	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/10/23 12:39	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/10/23 12:39	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/10/23 12:39	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/10/23 12:39	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/10/23 12:39	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/10/23 12:39	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/10/23 12:39	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-801819/7
Matrix: Water
Analysis Batch: 801819

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/10/23 12:39	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/10/23 12:39	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/10/23 12:39	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/10/23 12:39	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/10/23 12:39	1
Styrene	0.27	U	1.0	0.27	ug/L			10/10/23 12:39	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/10/23 12:39	1
Toluene	0.25	U	1.0	0.25	ug/L			10/10/23 12:39	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/10/23 12:39	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/10/23 12:39	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/10/23 12:39	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/10/23 12:39	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/10/23 12:39	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/10/23 12:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*60 - 124*		*10/10/23 12:39*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/10/23 12:39*	*1*
Dibromofluoromethane (Surr)	*125*		*70 - 130*		*10/10/23 12:39*	*1*
Toluene-d8 (Surr)	*116*		*70 - 130*		*10/10/23 12:39*	*1*

Lab Sample ID: LCS 680-801819/3
Matrix: Water
Analysis Batch: 801819

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	48.3		ug/L		97	70 - 130
1,1,2,2-Tetrachloroethane	50.0	47.3		ug/L		95	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	56.3		ug/L		113	63 - 141
1,1,2-Trichloroethane	50.0	46.7		ug/L		93	70 - 130
1,1-Dichloroethane	50.0	47.7		ug/L		95	70 - 130
1,1-Dichloroethene	50.0	53.1		ug/L		106	70 - 130
1,2,4-Trichlorobenzene	50.0	52.5		ug/L		105	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	48.9		ug/L		98	70 - 130
1,2-Dibromoethane (EDB)	50.0	49.7		ug/L		99	70 - 130
1,2-Dichlorobenzene	50.0	51.4		ug/L		103	70 - 130
1,2-Dichloroethane	50.0	47.6		ug/L		95	70 - 130
1,2-Dichloropropane	50.0	50.2		ug/L		100	70 - 130
1,3-Dichlorobenzene	50.0	50.0		ug/L		100	70 - 130
1,4-Dichlorobenzene	50.0	50.4		ug/L		101	70 - 130
2-Butanone (MEK)	250	264		ug/L		106	69 - 120
2-Hexanone	250	272		ug/L		109	70 - 130
4-Methyl-2-pentanone	250	233		ug/L		93	68 - 120
Acetone	250	255		ug/L		102	67 - 120
Benzene	50.0	48.3		ug/L		97	70 - 130
Bromodichloromethane	50.0	48.3		ug/L		97	70 - 130
Bromoform	50.0	47.9		ug/L		96	69 - 129
Bromomethane	50.0	41.5		ug/L		83	28 - 192

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-801819/3
Matrix: Water
Analysis Batch: 801819

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Carbon disulfide	50.0	48.3		ug/L		97	70 - 130
Carbon tetrachloride	50.0	49.4		ug/L		99	70 - 130
Chlorobenzene	50.0	49.8		ug/L		100	70 - 130
Chloroethane	50.0	52.3		ug/L		105	31 - 213
Chloroform	50.0	49.5		ug/L		99	70 - 130
Chloromethane	50.0	41.4		ug/L		83	59 - 127
cis-1,2-Dichloroethene	50.0	48.9		ug/L		98	70 - 130
cis-1,3-Dichloropropene	50.0	51.6		ug/L		103	70 - 130
Cyclohexane	50.0	50.6		ug/L		101	23 - 175
Dibromochloromethane	50.0	46.7		ug/L		93	70 - 130
Dichlorodifluoromethane	50.0	50.8		ug/L		102	70 - 130
Ethylbenzene	50.0	44.3		ug/L		89	70 - 130
Isopropylbenzene	50.0	45.2		ug/L		90	70 - 130
m,p-Xylenes	50.0	51.6		ug/L		103	70 - 130
Methyl acetate	100	86.7		ug/L		87	67 - 120
Methyl tert-butyl ether	50.0	54.4		ug/L		109	70 - 130
Methylene Chloride	50.0	47.7		ug/L		95	70 - 130
o-Xylene	50.0	45.3		ug/L		91	70 - 130
Styrene	50.0	54.4		ug/L		109	70 - 130
Tetrachloroethene	50.0	48.6		ug/L		97	70 - 130
Toluene	50.0	51.5		ug/L		103	70 - 130
trans-1,2-Dichloroethene	50.0	50.5		ug/L		101	70 - 130
trans-1,3-Dichloropropene	50.0	49.3		ug/L		99	70 - 130
Trichloroethene	50.0	54.1		ug/L		108	70 - 130
Trichlorofluoromethane	50.0	69.7		ug/L		139	63 - 142
Vinyl chloride	50.0	48.4		ug/L		97	66 - 129
Xylenes, Total	100	96.9		ug/L		97	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 124*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*114*		*70 - 130*

Lab Sample ID: LCSD 680-801819/4
Matrix: Water
Analysis Batch: 801819

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	50.0	47.4		ug/L		95	70 - 130	2	30
1,1,2,2-Tetrachloroethane	50.0	48.5		ug/L		97	70 - 130	3	30
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	55.5		ug/L		111	63 - 141	1	30
1,1,2-Trichloroethane	50.0	47.9		ug/L		96	70 - 130	3	30
1,1-Dichloroethane	50.0	47.9		ug/L		96	70 - 130	1	30
1,1-Dichloroethene	50.0	54.2		ug/L		108	70 - 130	2	20
1,2,4-Trichlorobenzene	50.0	51.7		ug/L		103	70 - 130	2	30
1,2-Dibromo-3-Chloropropane	50.0	49.6		ug/L		99	70 - 130	1	30
1,2-Dibromoethane (EDB)	50.0	51.1		ug/L		102	70 - 130	3	30

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27764-1
SDG: 670-27764

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-801819/4
Matrix: Water
Analysis Batch: 801819

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dichlorobenzene			50.0	51.4		ug/L		103	70 - 130	0	30
1,2-Dichloroethane			50.0	47.8		ug/L		96	70 - 130	0	50
1,2-Dichloropropane			50.0	50.1		ug/L		100	70 - 130	0	20
1,3-Dichlorobenzene			50.0	50.5		ug/L		101	70 - 130	1	30
1,4-Dichlorobenzene			50.0	50.6		ug/L		101	70 - 130	0	30
2-Butanone (MEK)			250	278		ug/L		111	69 - 120	5	30
2-Hexanone			250	284		ug/L		114	70 - 130	4	20
4-Methyl-2-pentanone			250	243		ug/L		97	68 - 120	4	30
Acetone			250	266		ug/L		106	67 - 120	4	30
Benzene			50.0	48.3		ug/L		97	70 - 130	0	30
Bromodichloromethane			50.0	48.8		ug/L		98	70 - 130	1	30
Bromoform			50.0	49.4		ug/L		99	69 - 129	3	30
Bromomethane			50.0	41.6		ug/L		83	28 - 192	0	30
Carbon disulfide			50.0	46.8		ug/L		94	70 - 130	3	30
Carbon tetrachloride			50.0	49.0		ug/L		98	70 - 130	1	30
Chlorobenzene			50.0	49.7		ug/L		99	70 - 130	0	30
Chloroethane			50.0	49.7		ug/L		99	31 - 213	5	30
Chloroform			50.0	49.6		ug/L		99	70 - 130	0	30
Chloromethane			50.0	40.9		ug/L		82	59 - 127	1	30
cis-1,2-Dichloroethene			50.0	48.5		ug/L		97	70 - 130	1	30
cis-1,3-Dichloropropene			50.0	51.7		ug/L		103	70 - 130	0	20
Cyclohexane			50.0	47.9		ug/L		96	23 - 175	5	30
Dibromochloromethane			50.0	48.1		ug/L		96	70 - 130	3	30
Dichlorodifluoromethane			50.0	50.5		ug/L		101	70 - 130	1	40
Ethylbenzene			50.0	44.1		ug/L		88	70 - 130	0	20
Isopropylbenzene			50.0	44.9		ug/L		90	70 - 130	1	30
m,p-Xylenes			50.0	51.6		ug/L		103	70 - 130	0	30
Methyl acetate			100	89.8		ug/L		90	67 - 120	3	30
Methyl tert-butyl ether			50.0	55.7		ug/L		111	70 - 130	2	30
Methylene Chloride			50.0	46.4		ug/L		93	70 - 130	3	30
o-Xylene			50.0	45.1		ug/L		90	70 - 130	1	30
Styrene			50.0	54.3		ug/L		109	70 - 130	0	30
Tetrachloroethene			50.0	49.2		ug/L		98	70 - 130	1	30
Toluene			50.0	51.5		ug/L		103	70 - 130	0	30
trans-1,2-Dichloroethene			50.0	46.8		ug/L		94	70 - 130	8	30
trans-1,3-Dichloropropene			50.0	50.3		ug/L		101	70 - 130	2	30
Trichloroethene			50.0	53.3		ug/L		107	70 - 130	1	30
Trichlorofluoromethane			50.0	68.9		ug/L		138	63 - 142	1	30
Vinyl chloride			50.0	46.9		ug/L		94	66 - 129	3	30
Xylenes, Total			100	96.7		ug/L		97	70 - 130	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 124*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
Dibromofluoromethane (Surr)	*100*		*70 - 130*
Toluene-d8 (Surr)	*114*		*70 - 130*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 680-241172-C-7 MS
Matrix: Water
Analysis Batch: 801819

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	4.2	U J3	1000	958		ug/L		96	70 - 130
1,1,2,2-Tetrachloroethane	8.0	U J3	1000	950		ug/L		95	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	4.6	U	1000	1200		ug/L		120	63 - 141
1,1,2-Trichloroethane	6.4	U J3	1000	900		ug/L		90	70 - 130
1,1-Dichloroethane	6.6	U J3	1000	930		ug/L		93	70 - 130
1,1-Dichloroethene	6.6	U J3	1000	1100		ug/L		110	70 - 130
1,2,4-Trichlorobenzene	11	U J3	1000	1030		ug/L		103	70 - 130
1,2-Dibromo-3-Chloropropane	36	U J3	1000	951		ug/L		95	70 - 130
1,2-Dibromoethane (EDB)	6.6	U J3	1000	933		ug/L		93	70 - 130
1,2-Dichlorobenzene	6.2	U J3	1000	1000		ug/L		100	70 - 130
1,2-Dichloroethane	5.0	U	1000	889		ug/L		89	70 - 130
1,2-Dichloropropane	4.4	U J3	1000	961		ug/L		96	70 - 130
1,3-Dichlorobenzene	6.2	U J3	1000	990		ug/L		99	70 - 130
1,4-Dichlorobenzene	6.2	U J3	1000	979		ug/L		98	70 - 130
2-Butanone (MEK)	130	U J3	5000	4350		ug/L		87	69 - 120
2-Hexanone	64	U J3	5000	4900		ug/L		98	70 - 130
4-Methyl-2-pentanone	54	U J3	5000	4370		ug/L		87	68 - 120
Acetone	74	U J3	5000	4250		ug/L		85	67 - 120
Benzene	5.4	U J3	1000	957		ug/L		96	70 - 130
Bromodichloromethane	5.0	U J3	1000	946		ug/L		95	70 - 130
Bromoform	12	U J3	1000	938		ug/L		94	69 - 129
Bromomethane	74	U J3	1000	687		ug/L		69	28 - 192
Carbon disulfide	8.6	U J3	1000	958		ug/L		96	70 - 130
Carbon tetrachloride	6.0	U J3	1000	1020		ug/L		102	70 - 130
Chlorobenzene	3.0	U J3	1000	976		ug/L		98	70 - 130
Chloroethane	92	U J3	1000	2010		ug/L		201	31 - 213
Chloroform	5.4	U J3	1000	926		ug/L		93	70 - 130
Chloromethane	11	U J3	1000	801		ug/L		80	59 - 127
cis-1,2-Dichloroethene	5.0	U J3	1000	943		ug/L		94	70 - 130
cis-1,3-Dichloropropene	5.2	U J3	1000	981		ug/L		98	70 - 130
Cyclohexane	5.6	U J3	1000	1030		ug/L		103	23 - 175
Dibromochloromethane	7.8	U J3	1000	911		ug/L		91	70 - 130
Dichlorodifluoromethane	7.2	U J3	1000	1060		ug/L		106	70 - 130
Ethylbenzene	45	J3	1000	922		ug/L		88	70 - 130
Isopropylbenzene	10	I J3	1000	903		ug/L		89	70 - 130
m,p-Xylenes	110	J3	1000	1140		ug/L		103	70 - 130
Methyl acetate	64	U J3	2000	1640		ug/L		82	67 - 120
Methyl tert-butyl ether	16	U J3	1000	1100		ug/L		110	70 - 130
Methylene Chloride	64	U J3	1000	899		ug/L		90	70 - 130
o-Xylene	41	J3	1000	926		ug/L		89	70 - 130
Styrene	5.4	U J3	1000	1050		ug/L		105	70 - 130
Tetrachloroethene	7.0	U J3	1000	993		ug/L		99	70 - 130
Toluene	9.7	I J3	1000	1020		ug/L		101	70 - 130
trans-1,2-Dichloroethene	6.8	U J3	1000	1000		ug/L		100	70 - 130
trans-1,3-Dichloropropene	4.6	U J3	1000	928		ug/L		93	70 - 130
Trichloroethene	4.0	U J3	1000	1080		ug/L		108	70 - 130
Trichlorofluoromethane	6.6	U J3	1000	1590	J3	ug/L		159	63 - 142
Vinyl chloride	8.0	U J3	1000	935		ug/L		94	66 - 129

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 680-241172-C-7 MS
Matrix: Water
Analysis Batch: 801819

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Xylenes, Total	150	J3	2000	2070		ug/L		96	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 124*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*
Dibromofluoromethane (Surr)	*96*		*70 - 130*
Toluene-d8 (Surr)	*116*		*70 - 130*

Lab Sample ID: 680-241172-C-7 MSD
Matrix: Water
Analysis Batch: 801819

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	4.2	U J3	1000	963		ug/L		96	70 - 130	1	30
1,1,2,2-Tetrachloroethane	8.0	U J3	1000	993		ug/L		99	70 - 130	4	30
1,1,2-Trichloro-1,2,2-trifluoroethane	4.6	U	1000	1210		ug/L		121	63 - 141	0	30
1,1,2-Trichloroethane	6.4	U J3	1000	930		ug/L		93	70 - 130	3	30
1,1-Dichloroethane	6.6	U J3	1000	922		ug/L		92	70 - 130	1	30
1,1-Dichloroethene	6.6	U J3	1000	1060		ug/L		106	70 - 130	3	20
1,2,4-Trichlorobenzene	11	U J3	1000	1030		ug/L		103	70 - 130	1	30
1,2-Dibromo-3-Chloropropane	36	U J3	1000	1010		ug/L		101	70 - 130	6	30
1,2-Dibromoethane (EDB)	6.6	U J3	1000	973		ug/L		97	70 - 130	4	30
1,2-Dichlorobenzene	6.2	U J3	1000	1030		ug/L		103	70 - 130	3	30
1,2-Dichloroethane	5.0	U	1000	916		ug/L		92	70 - 130	3	50
1,2-Dichloropropane	4.4	U J3	1000	963		ug/L		96	70 - 130	0	20
1,3-Dichlorobenzene	6.2	U J3	1000	1020		ug/L		102	70 - 130	3	30
1,4-Dichlorobenzene	6.2	U J3	1000	1000		ug/L		100	70 - 130	3	30
2-Butanone (MEK)	130	U J3	5000	4590		ug/L		92	69 - 120	5	30
2-Hexanone	64	U J3	5000	5180		ug/L		104	70 - 130	6	20
4-Methyl-2-pentanone	54	U J3	5000	4590		ug/L		92	68 - 120	5	30
Acetone	74	U J3	5000	4500		ug/L		90	67 - 120	6	30
Benzene	5.4	U J3	1000	961		ug/L		96	70 - 130	0	30
Bromodichloromethane	5.0	U J3	1000	955		ug/L		95	70 - 130	1	30
Bromoform	12	U J3	1000	969		ug/L		97	69 - 129	3	30
Bromomethane	74	U J3	1000	755		ug/L		75	28 - 192	9	30
Carbon disulfide	8.6	U J3	1000	944		ug/L		94	70 - 130	1	30
Carbon tetrachloride	6.0	U J3	1000	1010		ug/L		101	70 - 130	1	30
Chlorobenzene	3.0	U J3	1000	991		ug/L		99	70 - 130	2	30
Chloroethane	92	U J3	1000	1850		ug/L		185	31 - 213	8	30
Chloroform	5.4	U J3	1000	925		ug/L		92	70 - 130	0	30
Chloromethane	11	U J3	1000	758		ug/L		76	59 - 127	6	30
cis-1,2-Dichloroethene	5.0	U J3	1000	942		ug/L		94	70 - 130	0	30
cis-1,3-Dichloropropene	5.2	U J3	1000	993		ug/L		99	70 - 130	1	20
Cyclohexane	5.6	U J3	1000	1020		ug/L		102	23 - 175	0	30
Dibromochloromethane	7.8	U J3	1000	924		ug/L		92	70 - 130	1	30
Dichlorodifluoromethane	7.2	U J3	1000	991		ug/L		99	70 - 130	6	40
Ethylbenzene	45	J3	1000	934		ug/L		89	70 - 130	1	20
Isopropylbenzene	10	I J3	1000	915		ug/L		90	70 - 130	1	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 680-241172-C-7 MSD
Matrix: Water
Analysis Batch: 801819

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m,p-Xylenes	110	J3	1000	1150		ug/L		104	70 - 130	1	30
Methyl acetate	64	U J3	2000	1620		ug/L		81	67 - 120	1	30
Methyl tert-butyl ether	16	U J3	1000	1130		ug/L		113	70 - 130	3	30
Methylene Chloride	64	U J3	1000	891		ug/L		89	70 - 130	1	30
o-Xylene	41	J3	1000	938		ug/L		90	70 - 130	1	30
Styrene	5.4	U J3	1000	1070		ug/L		107	70 - 130	1	30
Tetrachloroethene	7.0	U J3	1000	983		ug/L		98	70 - 130	1	30
Toluene	9.7	I J3	1000	1020		ug/L		101	70 - 130	0	30
trans-1,2-Dichloroethene	6.8	U J3	1000	974		ug/L		97	70 - 130	3	30
trans-1,3-Dichloropropene	4.6	U J3	1000	948		ug/L		95	70 - 130	2	30
Trichloroethene	4.0	U J3	1000	1080		ug/L		108	70 - 130	0	30
Trichlorofluoromethane	6.6	U J3	1000	1580	J3	ug/L		158	63 - 142	1	30
Vinyl chloride	8.0	U J3	1000	895		ug/L		90	66 - 129	4	30
Xylenes, Total	150	J3	2000	2090		ug/L		97	70 - 130	1	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 124*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*
Dibromofluoromethane (Surr)	*94*		*70 - 130*
Toluene-d8 (Surr)	*115*		*70 - 130*

GC/MS VOA

Analysis Batch: 800978

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-27764-3	LC34-DPT0947-018.0-20230928	Total/NA	Water	8260D	
670-27764-4	LC34-DPT0947-025.0-20230928	Total/NA	Water	8260D	
670-27764-8	LC34-DPT0948-013.0-20230929	Total/NA	Water	8260D	
670-27764-9	LC34-DPT0948-018.0-20230929	Total/NA	Water	8260D	
670-27764-15	LC34-DPT0949-018.0-20230929	Total/NA	Water	8260D	
670-27764-16	LC34-DPT0949-025.0-20230929	Total/NA	Water	8260D	
670-27764-19	LC34-DPT0950-008.0-20230929	Total/NA	Water	8260D	
670-27764-21	LC34-DPT0950-018.0-20230929	Total/NA	Water	8260D	
670-27764-23	LC34-DPT0950-034.0-20230929	Total/NA	Water	8260D	
670-27764-24	LC34-DPT0950-038.0-20230929	Total/NA	Water	8260D	
MB 680-800978/8	Method Blank	Total/NA	Water	8260D	
LCS 680-800978/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-800978/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 801481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-27764-1	LC34-DPT0947-008.0-20230928	Total/NA	Water	8260D	
670-27764-2	LC34-DPT0947-013.0-20230928	Total/NA	Water	8260D	
670-27764-5	LC34-DPT0947-034.0-20230928	Total/NA	Water	8260D	
670-27764-7	LC34-DPT0948-008.0-20230929	Total/NA	Water	8260D	
670-27764-10	LC34-DPT0948-025.0-20230929	Total/NA	Water	8260D	
670-27764-11	LC34-DPT0948-034.0-20230929	Total/NA	Water	8260D	
670-27764-12	LC34-DPT0948-038.0-20230929	Total/NA	Water	8260D	
670-27764-14	LC34-DPT0949-013.0-20230929	Total/NA	Water	8260D	
670-27764-17	LC34-DPT0949-034.0-20230929	Total/NA	Water	8260D	
670-27764-20	LC34-DPT0950-013.0-20230929	Total/NA	Water	8260D	
670-27764-22	LC34-DPT0950-025.0-20230929	Total/NA	Water	8260D	
MB 680-801481/8	Method Blank	Total/NA	Water	8260D	
LCS 680-801481/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-801481/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 801631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-27764-6	LC34-DPT0947-038.0-20230928	Total/NA	Water	8260D	
670-27764-10 - DL	LC34-DPT0948-025.0-20230929	Total/NA	Water	8260D	
670-27764-11	LC34-DPT0948-034.0-20230929	Total/NA	Water	8260D	
670-27764-13	LC34-DPT0949-008.0-20230929	Total/NA	Water	8260D	
670-27764-18	LC34-DPT0949-038.0-20230929	Total/NA	Water	8260D	
670-27764-22 - DL	LC34-DPT0950-025.0-20230929	Total/NA	Water	8260D	
MB 680-801631/8	Method Blank	Total/NA	Water	8260D	
LCS 680-801631/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-801631/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 801819

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-27764-17 - DL	LC34-DPT0949-034.0-20230929	Total/NA	Water	8260D	
MB 680-801819/7	Method Blank	Total/NA	Water	8260D	
LCS 680-801819/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-801819/4	Lab Control Sample Dup	Total/NA	Water	8260D	
680-241172-C-7 MS	Matrix Spike	Total/NA	Water	8260D	
680-241172-C-7 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27764-1
SDG: 670-27764

Client Sample ID: LC34-DPT0947-008.0-20230928
Lab Sample ID: 670-27764-1
Date Collected: 09/28/23 14:55
Matrix: Water
Date Received: 09/30/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	801481	Y1S	EET SAV	10/07/23 15:48

Client Sample ID: LC34-DPT0947-013.0-20230928
Lab Sample ID: 670-27764-2
Date Collected: 09/28/23 15:10
Matrix: Water
Date Received: 09/30/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	801481	Y1S	EET SAV	10/07/23 16:35

Client Sample ID: LC34-DPT0947-018.0-20230928
Lab Sample ID: 670-27764-3
Date Collected: 09/28/23 15:25
Matrix: Water
Date Received: 09/30/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	800978	P1C	EET SAV	10/04/23 19:38

Client Sample ID: LC34-DPT0947-025.0-20230928
Lab Sample ID: 670-27764-4
Date Collected: 09/28/23 15:45
Matrix: Water
Date Received: 09/30/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		2	800978	P1C	EET SAV	10/04/23 21:04

Client Sample ID: LC34-DPT0947-034.0-20230928
Lab Sample ID: 670-27764-5
Date Collected: 09/28/23 16:05
Matrix: Water
Date Received: 09/30/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	801481	Y1S	EET SAV	10/07/23 16:58

Client Sample ID: LC34-DPT0947-038.0-20230928
Lab Sample ID: 670-27764-6
Date Collected: 09/28/23 16:25
Matrix: Water
Date Received: 09/30/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	801631	Y1S	EET SAV	10/09/23 14:55

Client Sample ID: LC34-DPT0948-008.0-20230929
Lab Sample ID: 670-27764-7
Date Collected: 09/28/23 08:00
Matrix: Water
Date Received: 09/30/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	801481	Y1S	EET SAV	10/07/23 17:22

Client Sample ID: LC34-DPT0948-013.0-20230929
Lab Sample ID: 670-27764-8

Date Collected: 09/28/23 08:15
Matrix: Water
Date Received: 09/30/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	800978	P1C	EET SAV	10/04/23 19:59

Client Sample ID: LC34-DPT0948-018.0-20230929
Lab Sample ID: 670-27764-9

Date Collected: 09/28/23 08:30
Matrix: Water
Date Received: 09/30/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		5	800978	P1C	EET SAV	10/04/23 21:26

Client Sample ID: LC34-DPT0948-025.0-20230929
Lab Sample ID: 670-27764-10

Date Collected: 09/28/23 08:50
Matrix: Water
Date Received: 09/30/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	801481	Y1S	EET SAV	10/07/23 17:45
Total/NA	Analysis	8260D	DL	5	801631	Y1S	EET SAV	10/09/23 19:49

Client Sample ID: LC34-DPT0948-034.0-20230929
Lab Sample ID: 670-27764-11

Date Collected: 09/28/23 09:10
Matrix: Water
Date Received: 09/30/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	801481	Y1S	EET SAV	10/07/23 18:08
Total/NA	Analysis	8260D		1	801631	Y1S	EET SAV	10/09/23 15:18

Client Sample ID: LC34-DPT0948-038.0-20230929
Lab Sample ID: 670-27764-12

Date Collected: 09/28/23 09:30
Matrix: Water
Date Received: 09/30/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	801481	Y1S	EET SAV	10/07/23 18:32

Client Sample ID: LC34-DPT0949-008.0-20230929
Lab Sample ID: 670-27764-13

Date Collected: 09/28/23 10:10
Matrix: Water
Date Received: 09/30/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	801631	Y1S	EET SAV	10/09/23 18:16

Client Sample ID: LC34-DPT0949-013.0-20230929
Lab Sample ID: 670-27764-14

Date Collected: 09/28/23 10:25
Matrix: Water
Date Received: 09/30/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	801481	Y1S	EET SAV	10/07/23 18:55

Client Sample ID: LC34-DPT0949-018.0-20230929 — Lab Sample ID: 670-27764-15

Date Collected: 09/28/23 10:40 — **Matrix: Water**
Date Received: 09/30/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		5	800978	P1C	EET SAV	10/04/23 21:47

Client Sample ID: LC34-DPT0949-025.0-20230929 — Lab Sample ID: 670-27764-16

Date Collected: 09/28/23 11:00 — **Matrix: Water**
Date Received: 09/30/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		25	800978	P1C	EET SAV	10/04/23 22:52

Client Sample ID: LC34-DPT0949-034.0-20230929 — Lab Sample ID: 670-27764-17

Date Collected: 09/28/23 11:20 — **Matrix: Water**
Date Received: 09/30/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		2	801481	Y1S	EET SAV	10/07/23 23:34
Total/NA	Analysis	8260D	DL	5	801819	Y1S	EET SAV	10/10/23 17:29

Client Sample ID: LC34-DPT0949-038.0-20230929 — Lab Sample ID: 670-27764-18

Date Collected: 09/28/23 11:40 — **Matrix: Water**
Date Received: 09/30/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	801631	Y1S	EET SAV	10/09/23 19:02

Client Sample ID: LC34-DPT0950-008.0-20230929 — Lab Sample ID: 670-27764-19

Date Collected: 09/28/23 12:25 — **Matrix: Water**
Date Received: 09/30/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	800978	P1C	EET SAV	10/04/23 20:21

Client Sample ID: LC34-DPT0950-013.0-20230929 — Lab Sample ID: 670-27764-20

Date Collected: 09/28/23 12:40 — **Matrix: Water**
Date Received: 09/30/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	801481	Y1S	EET SAV	10/07/23 19:18

Client Sample ID: LC34-DPT0950-018.0-20230929 — Lab Sample ID: 670-27764-21

Date Collected: 09/28/23 12:55 — **Matrix: Water**
Date Received: 09/30/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		5	800978	P1C	EET SAV	10/04/23 22:09

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27764-1
SDG: 670-27764

Client Sample ID: LC34-DPT0950-025.0-20230929

Lab Sample ID: 670-27764-22

Date Collected: 09/28/23 13:15
Matrix: Water
Date Received: 09/30/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	801481	Y1S	EET SAV	10/07/23 19:41
Total/NA	Analysis	8260D	DL	10	801631	Y1S	EET SAV	10/09/23 19:26

Client Sample ID: LC34-DPT0950-034.0-20230929

Lab Sample ID: 670-27764-23

Date Collected: 09/28/23 13:35
Matrix: Water
Date Received: 09/30/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		5	800978	P1C	EET SAV	10/04/23 22:30

Client Sample ID: LC34-DPT0950-038.0-20230929

Lab Sample ID: 670-27764-24

Date Collected: 09/28/23 13:55
Matrix: Water
Date Received: 09/30/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	800978	P1C	EET SAV	10/04/23 20:43

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27764-1
SDG: 670-27764

Laboratory: Eurofins Savannah

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
	AFCEE	SAVLAB	
Alabama	State	41450	06-30-24
ANAB	Dept. of Defense ELAP	L2463	09-22-24
Arkansas DEQ	State	19-015-0	02-01-24
California	State	2939	06-30-24
Florida	NELAP	E87052	06-30-24
Georgia	State	E87052	06-30-24
Georgia (DW)	State	803	06-30-24
Guam	State	19-007R	04-17-24
Hawaii	State	<cert No.>	06-30-24
Illinois	NELAP	200022	11-30-23
Indiana	State	C-GA-02	06-30-24
Iowa	State	353	07-01-25
Kentucky (UST)	State	NA	06-30-24
Louisiana	NELAP	30690	06-30-24
Louisiana (All)	NELAP	30690	06-30-24
Louisiana (DW)	State	LA009	12-31-23
Maine	State	GA00006	09-25-24
Maryland	State	250	12-31-23
Massachusetts	State	M-GA006	06-30-24
Michigan	State	9925	06-30-24
Mississippi	State	<cert No.>	06-30-24
Nebraska	State	NE-OS-7-04	06-30-24
New Jersey	NELAP	GA769	06-30-24
New Mexico	State	GA00006	06-30-24
North Carolina (DW)	State	13701	07-31-24
North Carolina (WW/SW)	State	269	12-31-23
Pennsylvania	NELAP	68-00474	06-30-24
Puerto Rico	State	GA00006	01-01-24
South Carolina	State	98001	06-30-23 *
Tennessee	State	TN02961	06-30-24
Texas	NELAP	T1047004185	11-30-23
Texas	TCEQ Water Supply	T104704185	06-30-24
USDA	US Federal Programs	P330-18-00313	09-03-24
Virginia	NELAP	460161	06-14-24
Wyoming	State	8TMS-L	06-30-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27764-1
SDG: 670-27764

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET SAV
5030B	Purge and Trap	SW846	EET SAV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Sample Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27764-1
SDG: 670-27764

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
670-27764-1	LC34-DPT0947-008.0-20230928	Water	09/28/23 14:55	09/30/23 08:00
670-27764-2	LC34-DPT0947-013.0-20230928	Water	09/28/23 15:10	09/30/23 08:00
670-27764-3	LC34-DPT0947-018.0-20230928	Water	09/28/23 15:25	09/30/23 08:00
670-27764-4	LC34-DPT0947-025.0-20230928	Water	09/28/23 15:45	09/30/23 08:00
670-27764-5	LC34-DPT0947-034.0-20230928	Water	09/28/23 16:05	09/30/23 08:00
670-27764-6	LC34-DPT0947-038.0-20230928	Water	09/28/23 16:25	09/30/23 08:00
670-27764-7	LC34-DPT0948-008.0-20230929	Water	09/28/23 08:00	09/30/23 08:00
670-27764-8	LC34-DPT0948-013.0-20230929	Water	09/28/23 08:15	09/30/23 08:00
670-27764-9	LC34-DPT0948-018.0-20230929	Water	09/28/23 08:30	09/30/23 08:00
670-27764-10	LC34-DPT0948-025.0-20230929	Water	09/28/23 08:50	09/30/23 08:00
670-27764-11	LC34-DPT0948-034.0-20230929	Water	09/28/23 09:10	09/30/23 08:00
670-27764-12	LC34-DPT0948-038.0-20230929	Water	09/28/23 09:30	09/30/23 08:00
670-27764-13	LC34-DPT0949-008.0-20230929	Water	09/28/23 10:10	09/30/23 08:00
670-27764-14	LC34-DPT0949-013.0-20230929	Water	09/28/23 10:25	09/30/23 08:00
670-27764-15	LC34-DPT0949-018.0-20230929	Water	09/28/23 10:40	09/30/23 08:00
670-27764-16	LC34-DPT0949-025.0-20230929	Water	09/28/23 11:00	09/30/23 08:00
670-27764-17	LC34-DPT0949-034.0-20230929	Water	09/28/23 11:20	09/30/23 08:00
670-27764-18	LC34-DPT0949-038.0-20230929	Water	09/28/23 11:40	09/30/23 08:00
670-27764-19	LC34-DPT0950-008.0-20230929	Water	09/28/23 12:25	09/30/23 08:00
670-27764-20	LC34-DPT0950-013.0-20230929	Water	09/28/23 12:40	09/30/23 08:00
670-27764-21	LC34-DPT0950-018.0-20230929	Water	09/28/23 12:55	09/30/23 08:00
670-27764-22	LC34-DPT0950-025.0-20230929	Water	09/28/23 13:15	09/30/23 08:00
670-27764-23	LC34-DPT0950-034.0-20230929	Water	09/28/23 13:35	09/30/23 08:00
670-27764-24	LC34-DPT0950-038.0-20230929	Water	09/28/23 13:55	09/30/23 08:00

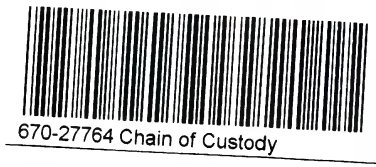
Tetra Tech, Inc.

CHAIN OF CUSTODY | NUMBER No. 3751 | PAGE 1 OF 2

PROJECT NO: 112G08985	FACILITY: KSC-LC34	PROJECT MANAGER Mark Jonnet	PHONE NUMBER (412) 921-8622	LABORATORY NAME AND CONTACT: Eurofins — Kaitlin Dylnicki
SAMPLERS (SIGNATURE) - Chuck Sorden		FIELD OPERATIONS LEADER Chuck Sorden	PHONE NUMBER (321) 591-7580	ADDRESS 481 Newburyport Ave.
		CARRIER/WAYBILL NUMBER		CITY, STATE Altamonte Springs, FL

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2023	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)											COMMENTS
									G	G										
									HCl/4°C	4°C										
									PRESERVATIVE USED											
									TYPE OF ANALYSIS: 8260D-(MOD) NASA LC34 Custom List	8260D-(MOD) NASA LC34 Custom List										
09/28	1455	LC34-DPT0947-008.0-20230928	95	10	16	GW	G	4	X	X										
	1510	LC34-DPT0947-013.0-20230928	95	11	15	GW	G	4	X	X										
	1525	LC34-DPT0947-018.0-20230928		16	20															
	1545	LC34-DPT0947-025.0-20230928		23	27															
	1605	LC34-DPT0947-034.0-20230928		32	36															
09/28	1625	LC34-DPT0947-038.0-20230928	95	36	40															
09/29	0800	LC34-DPT0948-008.0-20230929	96	6	10															
	0815	LC34-DPT0948-013.0-20230929		11	15															
	0830	LC34-DPT0948-018.0-20230929		16	20															
	0850	LC34-DPT0948-025.0-20230929		23	27															
	0910	LC34-DPT0948-034.0-20230929		32	36															
	0930	LC34-DPT0948-038.0-20230929	96	36	40															
09/29	1010	LC34-DPT0949-008.0-20230929	97	6	10	GW	G	4	X	X										



	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	09/29/23	1430	1. RECEIVED BY ML	9/30/23	8:00
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS 2.3 / 1.8

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

FORM NO. TT-N-2202 4/02R 10/1/2023

596

Tetra Tech, Inc.

CHAIN OF CUSTODY | NUMBER No. 3752 | PAGE 2 OF 2

PROJECT NO: 112G08985	FACILITY: KSC-LC34	PROJECT MANAGER Mark Jonnet	PHONE NUMBER (412) 921-8622	LABORATORY NAME AND CONTACT: Eurofins — Kaitlin Dylnicki
SAMPLERS (SIGNATURE) — Chuck Sorden		FIELD OPERATIONS LEADER Chuck Sorden	PHONE NUMBER (321) 591-7580	ADDRESS 481 Newburyport Ave.
		CARRIER/WAYBILL NUMBER		CITY, STATE Altamonte Springs, FL

STANDARD TAT ☒
RUSH TAT ☐ ☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE (YEAR 2023)	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS: 8260D-(MOD) NASA LC34 Custom List	TYPE OF ANALYSIS: 8260D-(MOD) NASA LC34 Custom List	COMMENTS
		CONTAINER TYPE PLASTIC (P) or GLASS (G)							G	G	
		PRESERVATIVE USED							HCl/4°C	4°C	
09/29	1025	LC34-DPT0949-013.0-20230929	97	11	15	GW	G	4	X	X	
	1040	LC34-DPT0949-018.0-20230929		16	20						
	1100	LC34-DPT0949-025.0-20230929		23	27						
	1120	LC34-DPT0949-034.0-20230929		32	36						
	1140	LC34-DPT0949-038.0-20230929	97	36	40						
	1225	LC34-DPT0950-008.0-20230929	98	6	10						
	1240	LC34-DPT0950-013.0-20230929		11	15						
	1255	LC34-DPT0950-018.0-20230929		16	20						
	1315	LC34-DPT0950-025.0-20230929		23	27						
	1335	LC34-DPT0950-034.0-20230929		32	36						
09/29	1355	LC34-DPT0950-038.0-20230929	98	36	40	GW	G	4	X	X	

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	09/29/23	1430	1. RECEIVED BY MC	9/30/23	8:00
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS 2.3 / 1.8

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

Eurofins Orlando
481 Newburyport Avenue
Altamonte Springs, FL 32701
Phone: 407-339-5984 Fax: 407-260-6110

Chain of Custody Record

eurofins

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Dylnicki, Kaitlin	Carrier Tracking No(s):	COC No: 670-16102.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: kaitlin.dylnicki@et.eurofinsus.com	State of Origin: Florida	Page: Page 1 of 3
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP - Florida		Job #: 670-27764-1
Address: 5102 LaRoche Avenue, ,	Due Date Requested: 10/11/2023			
City: Savannah	TAT Requested (days):			
State, Zip: GA, 31404				
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	PO #:			
Email:	WO #:			
Project Name: NASA KSC LC34 DPT	Project #: 67001156			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D/5030B (MOD) NASA LC34 Custom	8260D/5030B_UP (MOD) NASA LC34 Custom	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
LC34-DPT0947-008.0-20230928 (670-27764-1)	9/28/23	14:55 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0947-013.0-20230928 (670-27764-2)	9/28/23	15:10 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0947-018.0-20230928 (670-27764-3)	9/28/23	15:25 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0947-025.0-20230928 (670-27764-4)	9/28/23	15:45 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0947-034.0-20230928 (670-27764-5)	9/28/23	16:05 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0947-038.0-20230928 (670-27764-6)	9/28/23	16:25 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0948-008.0-20230929 (670-27764-7)	9/28/23	08:00 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0948-013.0-20230929 (670-27764-8)	9/28/23	08:15 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0948-018.0-20230929 (670-27764-9)	9/28/23	08:30 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		10/2 1200			10/3/25 1029	
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 5.6/5.4

Eurofins Orlando
481 Newburyport Avenue
Altamonte Springs, FL 32701
Phone: 407-339-5984 Fax: 407-260-6110

Chain of Custody Record

eurofins

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Dylnicki, Kaitlin	Carrier Tracking No(s):	COC No: 670-16102.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: kaitlin.dylnicki@et.eurofinsus.com	State of Origin: Florida	Page: Page 2 of 3
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP - Florida		Job #: 670-27764-1
Address: 5102 LaRoche Avenue, ,	Due Date Requested: 10/11/2023			
City: Savannah	TAT Requested (days):			
State, Zip: GA, 31404				
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	PO #:			
Email:	WO #:			
Project Name: NASA KSC LC34 DPT	Project #: 67001156			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D/5030B (MOD) NASA LC34 Custom	8260D/5030B_UP (MOD) NASA LC34 Custom	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
LC34-DPT0948-025.0-20230929 (670-27764-10)	9/28/23	08:50 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0948-034.0-20230929 (670-27764-11)	9/28/23	09:10 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0947-038.0-20230929 (670-27764-12)	9/28/23	09:30 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0949-008.0-20230929 (670-27764-13)	9/28/23	10:10 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0949-013.0-20230929 (670-27764-14)	9/28/23	10:25 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0949-018.0-20230929 (670-27764-15)	9/28/23	10:40 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0949-025.0-20230929 (670-27764-16)	9/28/23	11:00 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0949-034.0-20230929 (670-27764-17)	9/28/23	11:20 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0949-038.0-20230929 (670-27764-18)	9/28/23	11:40 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	10/2 1200			10/3/23 1029	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
		5.6/5.4

Eurofins Orlando
481 Newburyport Avenue
Altamonte Springs, FL 32701
Phone: 407-339-5984 Fax: 407-260-6110

Chain of Custody Record

eurofins

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Dylnicki, Kaitlin	Carrier Tracking No(s):	COC No: 670-16102.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: kaitlin.dylnicki@et.eurofinsus.com	State of Origin: Florida	Page: Page 3 of 3
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP - Florida		Job #: 670-27764-1
Address: 5102 LaRoche Avenue, ,	Due Date Requested: 10/11/2023			
City: Savannah	TAT Requested (days):			
State, Zip: GA, 31404				
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	PO #:			
Email:	WO #:			
Project Name: NASA KSC LC34 DPT	Project #: 67001156			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D/5030B (MOD) NASA LC34 Custom	8260D/5030B_UP (MOD) NASA LC34 Custom	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
LC34-DPT0950-008.0-20230929 (670-27764-19)	9/28/23	12:25 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0950-013.0-20230929 (670-27764-20)	9/28/23	12:40 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0950-018.0-20230929 (670-27764-21)	9/28/23	12:55 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0950-025.0-20230929 (670-27764-22)	9/28/23	13:15 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0950-034.0-20230929 (670-27764-23)	9/28/23	13:35 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0950-038.0-20230929 (670-27764-24)	9/28/23	13:55 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		10/2 1200			10/3/23 1029	
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 5.6/5.4

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 670-27764-1
SDG Number: 670-27764

Login Number: 27764
List Number: 1
Creator: Clerisier, Meline

List Source: Eurofins Orlando

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 670-27764-1
SDG Number: 670-27764

Login Number: 27764
List Number: 2
Creator: Harley, Tynisha

List Source: Eurofins Savannah
List Creation: 10/03/23 12:26 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Mark Jonnet
Tetra Tech, Inc.
Foster Plaza 7
661 Anderson Drive
Suite 200
Pittsburgh, Pennsylvania 15220-2745

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JOB DESCRIPTION

NASA KSC LC34 DPT

JOB NUMBER

670-27943-1

Eurofins Orlando
481 Newburyport Avenue
Altamonte Springs FL 32701

See page two for job notes and contact information.

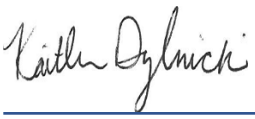
my EOL

Job Notes

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The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization



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10/23/2023 5:03:53 PM

Authorized for release by
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Definitions/Glossary

Client: Tetra Tech, Inc.
Job ID: 670-27943-1
Project/Site: NASA KSC LC34 DPT

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
U	Indicates that the compound was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 670-27943-1

Laboratory: Eurofins Orlando

Narrative

Job Narrative
Client: Tetra Tech
Client PM: Mark Jonnet
Project: NASA KSC LC34
Project Number: 112G08985
670-27943-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 10/4/2023 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.3°C

GC/MS VOA
Method 8260D: One HCl container for the following sample was received broken: 670-27943-B-27.

Method 8260D: The continuing calibration verification (CCV) analyzed in batch 680-801496 was outside the method criteria for the following analyte(s): Chloroethane, Chloromethane, Trichlorofluoromethane and Vinyl chloride. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8260D: The laboratory control sample duplicate (LCSD) for analytical batch 680-801496 recovered outside control limits for the following analytes: Vinyl chloride. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-801496.

Method 8260D: The continuing calibration verification (CCV) analyzed in batch 680-801533 was outside the method criteria for the following analyte(s): Acetone, Chloroethane and Trichlorofluoromethane. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8260D: The laboratory control sample (LCS) for analytical batch 680-801533 recovered outside control limits for the following analytes: Acetone. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D: The laboratory control sample duplicate (LCSD) for analytical batch 680-801533 recovered outside control limits for the following analytes: 2-Butanone (MEK) and Acetone. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D: The following samples were diluted to bring the concentration of target analytes within the calibration range: LC34-DPT0953-034.0-20231002 (670-27943-17), LC34-DPT0954-013.0-20231003 (670-27943-20), LC34-DPT0954-018.0-20231003 (670-27943-21), LC34-DPT0954-025.0-20231003 (670-27943-22), LC34-DPT0955-013.0-20231003 (670-27943-26), LC34-DPT0955-018.0-20231003 (670-27943-27), LC34-DPT0955-034.0-20231003 (670-27943-29), LC34-DPT0956-008.0-20231003

Job ID: 670-27943-1 (Continued)

Laboratory: Eurofins Orlando (Continued)

(670-27943-31) and LC34-DPT0956-013.0-20231003 (670-27943-32). Elevated reporting limits (RLs) are provided.

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-801533.

Method 8260D: The continuing calibration verification (CCV) associated with batch 680-801537 recovered above the upper control limit for Bromomethane and Chloroethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260D: The following samples were diluted to bring the concentration of target analytes within the calibration range: LC34-DPT0951-034.0-20231002 (670-27943-5), LC34-DPT0952-025.0-20231002 (670-27943-10), LC34-DPT0952-034.0-20231002 (670-27943-11), LC34-DPT0953-025.0-20231002 (670-27943-16), LC34-DPT0955-025.0-20231003 (670-27943-28), LC34-DPT0956-018.0-20231003 (670-27943-33), LC34-DPT0956-025.0-20231003 (670-27943-34) and LC34-DPT0956-034.0-20231003 (670-27943-35). Elevated reporting limits (RLs) are provided.

Method 8260D: The laboratory control sample duplicate (LCSD) for analytical batch 680-801537 recovered outside control limits for the following analytes: 4-Methyl-2-pentanone and Chloroethane. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 680-801537 recovered outside control limits for the following analytes: Chloroethane.

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-801537.

Method 8260D: The continuing calibration verification (CCV) associated with batch 680-801650 recovered above the upper control limit for Chloroethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260D: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 680-801650 recovered outside control limits for the following analytes: 1,2,4-Trichlorobenzene.

Method 8260D: The continuing calibration verification (CCV) associated with batch 680-801650 recovered outside acceptance criteria, low biased, for 2-Butanone (MEK). A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27943-1

Client Sample ID: LC34-DPT0951-008.0-20231002 — Lab Sample ID: 670-27943-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	53		1.0	0.25	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	0.42	I	1.0	0.34	ug/L	1		8260D	Total/NA
Vinyl chloride	86		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0951-013.0-20231002 — Lab Sample ID: 670-27943-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.97	I	2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	56		1.0	0.25	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	0.37	I	1.0	0.34	ug/L	1		8260D	Total/NA
Vinyl chloride	120		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0951-018.0-20231002 — Lab Sample ID: 670-27943-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	83		1.0	0.25	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	0.55	I	1.0	0.34	ug/L	1		8260D	Total/NA
Vinyl chloride	140		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0951-025.0-20231002 — Lab Sample ID: 670-27943-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.71	I	2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	5.9		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	55		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0951-034.0-20231002 — Lab Sample ID: 670-27943-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	6.2	I	20	4.3	ug/L	10		8260D	Total/NA
cis-1,2-Dichloroethene	5.1	I	10	2.5	ug/L	10		8260D	Total/NA
trans-1,2-Dichloroethene	36		10	3.4	ug/L	10		8260D	Total/NA
Vinyl chloride	890		10	4.0	ug/L	10		8260D	Total/NA

Client Sample ID: LC34-DPT0951-038.0-20231002 — Lab Sample ID: 670-27943-6

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	1.4	I	2.0	0.43	ug/L	1		8260D	Total/NA
Vinyl chloride	2.7		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0952-008.0-20231002 — Lab Sample ID: 670-27943-7

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.90	I	2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	44		1.0	0.25	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	0.36	I	1.0	0.34	ug/L	1		8260D	Total/NA
Vinyl chloride	74		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0952-013.0-20231002 — Lab Sample ID: 670-27943-8

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	38		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	60		1.0	0.40	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Orlando

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27943-1

Client Sample ID: LC34-DPT0952-018.0-20231002 — Lab Sample ID: 670-27943-9

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.71	I	2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	37		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	77		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0952-025.0-20231002 — Lab Sample ID: 670-27943-10

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	5.5		2.0	0.50	ug/L	2		8260D	Total/NA
Vinyl chloride	170		2.0	0.80	ug/L	2		8260D	Total/NA

Client Sample ID: LC34-DPT0952-034.0-20231002 — Lab Sample ID: 670-27943-11

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	6.3	I	25	6.3	ug/L	25		8260D	Total/NA
trans-1,2-Dichloroethene	37		25	8.5	ug/L	25		8260D	Total/NA
Vinyl chloride	3500		25	10	ug/L	25		8260D	Total/NA

Client Sample ID: LC34-DPT0952-038.0-20231002 — Lab Sample ID: 670-27943-12

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	1.2	I	2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.27	I	1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	13		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0953-008.0-20231002 — Lab Sample ID: 670-27943-13

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.91	I	2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	21		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	54		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0953-013.0-20231002 — Lab Sample ID: 670-27943-14

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	17		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	44		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0953-018.0-20231002 — Lab Sample ID: 670-27943-15

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.73	I	2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	51		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	72		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0953-025.0-20231002 — Lab Sample ID: 670-27943-16

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	18	I	50	13	ug/L	50		8260D	Total/NA
trans-1,2-Dichloroethene	29	I	50	17	ug/L	50		8260D	Total/NA
Vinyl chloride	3700		50	20	ug/L	50		8260D	Total/NA

Client Sample ID: LC34-DPT0953-034.0-20231002 — Lab Sample ID: 670-27943-17

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	35		25	6.3	ug/L	25		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Orlando

Client Sample ID: LC34-DPT0953-034.0-20231002 (Continued) — Lab Sample ID: 670-27943-17

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	2500		50	20	ug/L	50		8260D	Total/NA

Client Sample ID: LC34-DPT0953-038.0-20231002 — Lab Sample ID: 670-27943-18

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	1.1	I	2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.88	I	1.0	0.25	ug/L	1		8260D	Total/NA
Toluene	0.34	I	1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	1.1		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0954-008.0-20231003 — Lab Sample ID: 670-27943-19

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	19		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	150		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0954-013.0-20231003 — Lab Sample ID: 670-27943-20

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	220		10	2.5	ug/L	10		8260D	Total/NA
trans-1,2-Dichloroethene	5.6	I	10	3.4	ug/L	10		8260D	Total/NA
Vinyl chloride	960		20	8.0	ug/L	20		8260D	Total/NA

Client Sample ID: LC34-DPT0954-018.0-20231003 — Lab Sample ID: 670-27943-21

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	5700		100	25	ug/L	100		8260D	Total/NA
trans-1,2-Dichloroethene	180		100	34	ug/L	100		8260D	Total/NA
Vinyl chloride	6000		100	40	ug/L	100		8260D	Total/NA

Client Sample ID: LC34-DPT0954-025.0-20231003 — Lab Sample ID: 670-27943-22

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	500		10	2.5	ug/L	10		8260D	Total/NA
trans-1,2-Dichloroethene	3.8	I	10	3.4	ug/L	10		8260D	Total/NA
Vinyl chloride	270		10	4.0	ug/L	10		8260D	Total/NA

Client Sample ID: LC34-DPT0954-034.0-20231003 — Lab Sample ID: 670-27943-23

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.57	I	1.0	0.25	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0954-038.0-20231003 — Lab Sample ID: 670-27943-24

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.26	I	1.0	0.25	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0955-008.0-20231003 — Lab Sample ID: 670-27943-25

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	73		1.0	0.25	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	1.1		1.0	0.34	ug/L	1		8260D	Total/NA
Vinyl chloride	160		1.0	0.40	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27943-1

Client Sample ID: LC34-DPT0955-013.0-20231003 — Lab Sample ID: 670-27943-26

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	340		5.0	1.3	ug/L	5		8260D	Total/NA
trans-1,2-Dichloroethene	1.7	I	5.0	1.7	ug/L	5		8260D	Total/NA
Vinyl chloride	470		20	8.0	ug/L	20		8260D	Total/NA

Client Sample ID: LC34-DPT0955-018.0-20231003 — Lab Sample ID: 670-27943-27

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2300		50	13	ug/L	50		8260D	Total/NA
trans-1,2-Dichloroethene	59		50	17	ug/L	50		8260D	Total/NA
Vinyl chloride	1900		50	20	ug/L	50		8260D	Total/NA

Client Sample ID: LC34-DPT0955-025.0-20231003 — Lab Sample ID: 670-27943-28

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	23000		500	130	ug/L	500		8260D	Total/NA
trans-1,2-Dichloroethene	440	I	500	170	ug/L	500		8260D	Total/NA
Vinyl chloride	8000		500	200	ug/L	500		8260D	Total/NA

Client Sample ID: LC34-DPT0955-034.0-20231003 — Lab Sample ID: 670-27943-29

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	8600		250	63	ug/L	250		8260D	Total/NA
trans-1,2-Dichloroethene	97	I	250	85	ug/L	250		8260D	Total/NA
Vinyl chloride	3100		250	100	ug/L	250		8260D	Total/NA

Client Sample ID: LC34-DPT0955-038.0-20231003 — Lab Sample ID: 670-27943-30

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	3.4		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	1.0		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0956-008.0-20231003 — Lab Sample ID: 670-27943-31

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	72		2.0	0.50	ug/L	2		8260D	Total/NA
trans-1,2-Dichloroethene	1.9	I	2.0	0.68	ug/L	2		8260D	Total/NA
Vinyl chloride	29		2.0	0.80	ug/L	2		8260D	Total/NA

Client Sample ID: LC34-DPT0956-013.0-20231003 — Lab Sample ID: 670-27943-32

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	210		2.0	0.50	ug/L	2		8260D	Total/NA
trans-1,2-Dichloroethene	2.5		2.0	0.68	ug/L	2		8260D	Total/NA
Vinyl chloride	250		2.0	0.80	ug/L	2		8260D	Total/NA

Client Sample ID: LC34-DPT0956-018.0-20231003 — Lab Sample ID: 670-27943-33

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	780		25	6.3	ug/L	25		8260D	Total/NA
trans-1,2-Dichloroethene	12	I	25	8.5	ug/L	25		8260D	Total/NA
Vinyl chloride	320		25	10	ug/L	25		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27943-1

Client Sample ID: LC34-DPT0956-025.0-20231003 — Lab Sample ID: 670-27943-34

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	3500		100	25	ug/L	100		8260D	Total/NA
trans-1,2-Dichloroethene	71	I	100	34	ug/L	100		8260D	Total/NA
Vinyl chloride	1300		100	40	ug/L	100		8260D	Total/NA

Client Sample ID: LC34-DPT0956-034.0-20231003 — Lab Sample ID: 670-27943-35

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	440		10	2.5	ug/L	10		8260D	Total/NA
trans-1,2-Dichloroethene	4.7	I	10	3.4	ug/L	10		8260D	Total/NA
Vinyl chloride	140		10	4.0	ug/L	10		8260D	Total/NA

Client Sample ID: LC34-DPT0956-038.0-20231003 — Lab Sample ID: 670-27943-36

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.84	I	1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	0.71	I	1.0	0.40	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27943-1

Client Sample ID: LC34-DPT0951-008.0-20231002
Date Collected: 10/02/23 09:25
Date Received: 10/04/23 08:00

Lab Sample ID: 670-27943-1
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/07/23 17:57	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/07/23 17:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/07/23 17:57	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/07/23 17:57	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/07/23 17:57	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/07/23 17:57	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/07/23 17:57	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/07/23 17:57	1
1,2-Dibromoethane (EDB)	0.33	U	2.0	0.33	ug/L			10/07/23 17:57	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/07/23 17:57	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/07/23 17:57	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/07/23 17:57	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/07/23 17:57	1
1,4-Dichlorobenzene	0.31	U	2.0	0.31	ug/L			10/07/23 17:57	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/07/23 17:57	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/07/23 17:57	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/07/23 17:57	1
Acetone	3.7	U	10	3.7	ug/L			10/07/23 17:57	1
Benzene	0.27	U	1.0	0.27	ug/L			10/07/23 17:57	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/07/23 17:57	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/07/23 17:57	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/07/23 17:57	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/07/23 17:57	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/07/23 17:57	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/07/23 17:57	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/07/23 17:57	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/07/23 17:57	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/07/23 17:57	1
cis-1,2-Dichloroethene	**53**		1.0	0.25	ug/L			10/07/23 17:57	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/07/23 17:57	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/07/23 17:57	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/07/23 17:57	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/07/23 17:57	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/07/23 17:57	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/07/23 17:57	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/07/23 17:57	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/07/23 17:57	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/07/23 17:57	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/07/23 17:57	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/07/23 17:57	1
Styrene	0.27	U	1.0	0.27	ug/L			10/07/23 17:57	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/07/23 17:57	1
Toluene	0.25	U	1.0	0.25	ug/L			10/07/23 17:57	1
trans-1,2-Dichloroethene	**0.42**	**I**	1.0	0.34	ug/L			10/07/23 17:57	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/07/23 17:57	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/07/23 17:57	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/07/23 17:57	1
Vinyl chloride	**86**		1.0	0.40	ug/L			10/08/23 15:59	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/07/23 17:57	1

Client Sample ID: LC34-DPT0951-008.0-20231002
Lab Sample ID: 670-27943-1

Date Collected: 10/02/23 09:25
Matrix: Water
Date Received: 10/04/23 08:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		60 - 124		10/07/23 17:57	1
1,2-Dichloroethane-d4 (Surr)	92		60 - 124		10/08/23 15:59	1
4-Bromofluorobenzene (Surr)	91		70 - 130		10/07/23 17:57	1
4-Bromofluorobenzene (Surr)	99		70 - 130		10/08/23 15:59	1
Dibromofluoromethane (Surr)	109		70 - 130		10/07/23 17:57	1
Dibromofluoromethane (Surr)	99		70 - 130		10/08/23 15:59	1
Toluene-d8 (Surr)	94		70 - 130		10/07/23 17:57	1
Toluene-d8 (Surr)	101		70 - 130		10/08/23 15:59	1

Client Sample ID: LC34-DPT0951-013.0-20231002
Lab Sample ID: 670-27943-2

Date Collected: 10/02/23 09:40
Matrix: Water
Date Received: 10/04/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/08/23 13:45	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/08/23 13:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/08/23 13:45	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/08/23 13:45	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/08/23 13:45	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/08/23 13:45	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/08/23 13:45	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/08/23 13:45	1
1,2-Dibromoethane (EDB)	0.33	U	2.0	0.33	ug/L			10/08/23 13:45	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/08/23 13:45	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/08/23 13:45	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/08/23 13:45	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/08/23 13:45	1
1,4-Dichlorobenzene	0.31	U	2.0	0.31	ug/L			10/08/23 13:45	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/08/23 13:45	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/08/23 13:45	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			10/08/23 13:45	1
Acetone	3.7	U	10	3.7	ug/L			10/08/23 13:45	1
Benzene	0.27	U	1.0	0.27	ug/L			10/08/23 13:45	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/08/23 13:45	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/08/23 13:45	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/08/23 13:45	1
Carbon disulfide	**0.97**	**I**	2.0	0.43	ug/L			10/08/23 13:45	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/08/23 13:45	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/08/23 13:45	1
Chloroethane	4.6	U J3	5.0	4.6	ug/L			10/08/23 13:45	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/08/23 13:45	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/08/23 13:45	1
cis-1,2-Dichloroethene	**56**		1.0	0.25	ug/L			10/08/23 13:45	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/08/23 13:45	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/08/23 13:45	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/08/23 13:45	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/08/23 13:45	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/08/23 13:45	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/08/23 13:45	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27943-1

Client Sample ID: LC34-DPT0951-013.0-20231002

Lab Sample ID: 670-27943-2

Date Collected: 10/02/23 09:40

Matrix: Water

Date Received: 10/04/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/08/23 13:45	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/08/23 13:45	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/08/23 13:45	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/08/23 13:45	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/08/23 13:45	1
Styrene	0.27	U	1.0	0.27	ug/L			10/08/23 13:45	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/08/23 13:45	1
Toluene	0.25	U	1.0	0.25	ug/L			10/08/23 13:45	1
trans-1,2-Dichloroethene	**0.37**	**I**	1.0	0.34	ug/L			10/08/23 13:45	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/08/23 13:45	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/08/23 13:45	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/08/23 13:45	1
Vinyl chloride	**120**		1.0	0.40	ug/L			10/08/23 13:45	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/08/23 13:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*84*		*60 - 124*		*10/08/23 13:45*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*10/08/23 13:45*	*1*
Dibromofluoromethane (Surr)	*95*		*70 - 130*		*10/08/23 13:45*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/08/23 13:45*	*1*

Client Sample ID: LC34-DPT0951-018.0-20231002

Lab Sample ID: 670-27943-3

Date Collected: 10/02/23 09:55

Matrix: Water

Date Received: 10/04/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/08/23 14:05	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/08/23 14:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/08/23 14:05	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/08/23 14:05	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/08/23 14:05	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/08/23 14:05	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/08/23 14:05	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/08/23 14:05	1
1,2-Dibromoethane (EDB)	0.33	U	2.0	0.33	ug/L			10/08/23 14:05	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/08/23 14:05	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/08/23 14:05	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/08/23 14:05	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/08/23 14:05	1
1,4-Dichlorobenzene	0.31	U	2.0	0.31	ug/L			10/08/23 14:05	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/08/23 14:05	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/08/23 14:05	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			10/08/23 14:05	1
Acetone	3.7	U	10	3.7	ug/L			10/08/23 14:05	1
Benzene	0.27	U	1.0	0.27	ug/L			10/08/23 14:05	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/08/23 14:05	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/08/23 14:05	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/08/23 14:05	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/08/23 14:05	1

Client Sample ID: LC34-DPT0951-018.0-20231002
Lab Sample ID: 670-27943-3

Date Collected: 10/02/23 09:55
Matrix: Water
Date Received: 10/04/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/08/23 14:05	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/08/23 14:05	1
Chloroethane	4.6	U J3	5.0	4.6	ug/L			10/08/23 14:05	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/08/23 14:05	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/08/23 14:05	1
cis-1,2-Dichloroethene	**83**		1.0	0.25	ug/L			10/08/23 14:05	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/08/23 14:05	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/08/23 14:05	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/08/23 14:05	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/08/23 14:05	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/08/23 14:05	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/08/23 14:05	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/08/23 14:05	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/08/23 14:05	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/08/23 14:05	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/08/23 14:05	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/08/23 14:05	1
Styrene	0.27	U	1.0	0.27	ug/L			10/08/23 14:05	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/08/23 14:05	1
Toluene	0.25	U	1.0	0.25	ug/L			10/08/23 14:05	1
trans-1,2-Dichloroethene	**0.55**	**I**	1.0	0.34	ug/L			10/08/23 14:05	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/08/23 14:05	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/08/23 14:05	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/08/23 14:05	1
Vinyl chloride	**140**		1.0	0.40	ug/L			10/08/23 14:05	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/08/23 14:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*60 - 124*		*10/08/23 14:05*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*10/08/23 14:05*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*10/08/23 14:05*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*10/08/23 14:05*	*1*

Client Sample ID: LC34-DPT0951-025.0-20231002
Lab Sample ID: 670-27943-4

Date Collected: 10/02/23 10:10
Matrix: Water
Date Received: 10/04/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/08/23 14:24	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/08/23 14:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/08/23 14:24	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/08/23 14:24	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/08/23 14:24	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/08/23 14:24	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/08/23 14:24	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/08/23 14:24	1
1,2-Dibromoethane (EDB)	0.33	U	2.0	0.33	ug/L			10/08/23 14:24	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/08/23 14:24	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/08/23 14:24	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27943-1

Client Sample ID: LC34-DPT0951-025.0-20231002
Date Collected: 10/02/23 10:10
Date Received: 10/04/23 08:00

Lab Sample ID: 670-27943-4
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/08/23 14:24	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/08/23 14:24	1
1,4-Dichlorobenzene	0.31	U	2.0	0.31	ug/L			10/08/23 14:24	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/08/23 14:24	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/08/23 14:24	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			10/08/23 14:24	1
Acetone	3.7	U	10	3.7	ug/L			10/08/23 14:24	1
Benzene	0.27	U	1.0	0.27	ug/L			10/08/23 14:24	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/08/23 14:24	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/08/23 14:24	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/08/23 14:24	1
Carbon disulfide	**0.71**	**I**	2.0	0.43	ug/L			10/08/23 14:24	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/08/23 14:24	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/08/23 14:24	1
Chloroethane	4.6	U J3	5.0	4.6	ug/L			10/08/23 14:24	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/08/23 14:24	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/08/23 14:24	1
cis-1,2-Dichloroethene	**5.9**		1.0	0.25	ug/L			10/08/23 14:24	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/08/23 14:24	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/08/23 14:24	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/08/23 14:24	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/08/23 14:24	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/08/23 14:24	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/08/23 14:24	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/08/23 14:24	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/08/23 14:24	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/08/23 14:24	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/08/23 14:24	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/08/23 14:24	1
Styrene	0.27	U	1.0	0.27	ug/L			10/08/23 14:24	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/08/23 14:24	1
Toluene	0.25	U	1.0	0.25	ug/L			10/08/23 14:24	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/08/23 14:24	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/08/23 14:24	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/08/23 14:24	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/08/23 14:24	1
Vinyl chloride	**55**		1.0	0.40	ug/L			10/08/23 14:24	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/08/23 14:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*60 - 124*		*10/08/23 14:24*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*10/08/23 14:24*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*10/08/23 14:24*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*10/08/23 14:24*	*1*

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27943-1

Client Sample ID: LC34-DPT0951-034.0-20231002
Date Collected: 10/02/23 10:30
Date Received: 10/04/23 08:00

Lab Sample ID: 670-27943-5
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2.1	U	10	2.1	ug/L			10/08/23 17:59	10
1,1,2,2-Tetrachloroethane	4.0	U	10	4.0	ug/L			10/08/23 17:59	10
1,1,2-Trichloro-1,2,2-trifluoroethane	2.3	U	10	2.3	ug/L			10/08/23 17:59	10
1,1,2-Trichloroethane	3.2	U	10	3.2	ug/L			10/08/23 17:59	10
1,1-Dichloroethane	3.3	U	10	3.3	ug/L			10/08/23 17:59	10
1,1-Dichloroethene	3.3	U	10	3.3	ug/L			10/08/23 17:59	10
1,2,4-Trichlorobenzene	5.3	U	50	5.3	ug/L			10/08/23 17:59	10
1,2-Dibromo-3-Chloropropane	18	U	50	18	ug/L			10/08/23 17:59	10
1,2-Dibromoethane (EDB)	3.3	U	20	3.3	ug/L			10/08/23 17:59	10
1,2-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/08/23 17:59	10
1,2-Dichloroethane	2.5	U	10	2.5	ug/L			10/08/23 17:59	10
1,2-Dichloropropane	2.2	U	10	2.2	ug/L			10/08/23 17:59	10
1,3-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/08/23 17:59	10
1,4-Dichlorobenzene	3.1	U	20	3.1	ug/L			10/08/23 17:59	10
2-Butanone (MEK)	64	U	100	64	ug/L			10/08/23 17:59	10
2-Hexanone	32	U	100	32	ug/L			10/08/23 17:59	10
4-Methyl-2-pentanone	27	U J3	100	27	ug/L			10/08/23 17:59	10
Acetone	37	U	100	37	ug/L			10/08/23 17:59	10
Benzene	2.7	U	10	2.7	ug/L			10/08/23 17:59	10
Bromodichloromethane	2.5	U	10	2.5	ug/L			10/08/23 17:59	10
Bromoform	5.9	U	10	5.9	ug/L			10/08/23 17:59	10
Bromomethane	37	U	50	37	ug/L			10/08/23 17:59	10
Carbon disulfide	**6.2**	**I**	20	4.3	ug/L			10/08/23 17:59	10
Carbon tetrachloride	3.0	U	10	3.0	ug/L			10/08/23 17:59	10
Chlorobenzene	1.5	U	10	1.5	ug/L			10/08/23 17:59	10
Chloroethane	46	U J3	50	46	ug/L			10/08/23 17:59	10
Chloroform	2.7	U	10	2.7	ug/L			10/08/23 17:59	10
Chloromethane	5.4	U	10	5.4	ug/L			10/08/23 17:59	10
cis-1,2-Dichloroethene	**5.1**	**I**	10	2.5	ug/L			10/08/23 17:59	10
cis-1,3-Dichloropropene	2.6	U	10	2.6	ug/L			10/08/23 17:59	10
Cyclohexane	2.8	U	10	2.8	ug/L			10/08/23 17:59	10
Dibromochloromethane	3.9	U	10	3.9	ug/L			10/08/23 17:59	10
Dichlorodifluoromethane	3.6	U	10	3.6	ug/L			10/08/23 17:59	10
Ethylbenzene	2.0	U	10	2.0	ug/L			10/08/23 17:59	10
Isopropylbenzene	2.6	U	10	2.6	ug/L			10/08/23 17:59	10
m,p-Xylenes	4.9	U	10	4.9	ug/L			10/08/23 17:59	10
Methyl acetate	32	U	50	32	ug/L			10/08/23 17:59	10
Methyl tert-butyl ether	8.1	U	50	8.1	ug/L			10/08/23 17:59	10
Methylene Chloride	32	U	50	32	ug/L			10/08/23 17:59	10
o-Xylene	2.6	U	10	2.6	ug/L			10/08/23 17:59	10
Styrene	2.7	U	10	2.7	ug/L			10/08/23 17:59	10
Tetrachloroethene	3.5	U	10	3.5	ug/L			10/08/23 17:59	10
Toluene	2.5	U	10	2.5	ug/L			10/08/23 17:59	10
trans-1,2-Dichloroethene	**36**		10	3.4	ug/L			10/08/23 17:59	10
trans-1,3-Dichloropropene	2.3	U	10	2.3	ug/L			10/08/23 17:59	10
Trichloroethene	2.0	U	10	2.0	ug/L			10/08/23 17:59	10
Trichlorofluoromethane	3.3	U	10	3.3	ug/L			10/08/23 17:59	10
Vinyl chloride	**890**		10	4.0	ug/L			10/08/23 17:59	10
Xylenes, Total	2.3	U	10	2.3	ug/L			10/08/23 17:59	10

Client Sample ID: LC34-DPT0951-034.0-20231002
Lab Sample ID: 670-27943-5

Date Collected: 10/02/23 10:30
Matrix: Water
Date Received: 10/04/23 08:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		60 - 124		10/08/23 17:59	10
4-Bromofluorobenzene (Surr)	98		70 - 130		10/08/23 17:59	10
Dibromofluoromethane (Surr)	100		70 - 130		10/08/23 17:59	10
Toluene-d8 (Surr)	101		70 - 130		10/08/23 17:59	10

Client Sample ID: LC34-DPT0951-038.0-20231002
Lab Sample ID: 670-27943-6

Date Collected: 10/02/23 10:50
Matrix: Water
Date Received: 10/04/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/08/23 14:43	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/08/23 14:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/08/23 14:43	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/08/23 14:43	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/08/23 14:43	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/08/23 14:43	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/08/23 14:43	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/08/23 14:43	1
1,2-Dibromoethane (EDB)	0.33	U	2.0	0.33	ug/L			10/08/23 14:43	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/08/23 14:43	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/08/23 14:43	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/08/23 14:43	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/08/23 14:43	1
1,4-Dichlorobenzene	0.31	U	2.0	0.31	ug/L			10/08/23 14:43	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/08/23 14:43	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/08/23 14:43	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			10/08/23 14:43	1
Acetone	3.7	U	10	3.7	ug/L			10/08/23 14:43	1
Benzene	0.27	U	1.0	0.27	ug/L			10/08/23 14:43	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/08/23 14:43	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/08/23 14:43	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/08/23 14:43	1
Carbon disulfide	**1.4**	**I**	2.0	0.43	ug/L			10/08/23 14:43	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/08/23 14:43	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/08/23 14:43	1
Chloroethane	4.6	U J3	5.0	4.6	ug/L			10/08/23 14:43	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/08/23 14:43	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/08/23 14:43	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/08/23 14:43	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/08/23 14:43	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/08/23 14:43	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/08/23 14:43	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/08/23 14:43	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/08/23 14:43	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/08/23 14:43	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/08/23 14:43	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/08/23 14:43	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/08/23 14:43	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/08/23 14:43	1

Client Sample ID: LC34-DPT0951-038.0-20231002
Lab Sample ID: 670-27943-6

Date Collected: 10/02/23 10:50
Matrix: Water
Date Received: 10/04/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	0.26	U	1.0	0.26	ug/L			10/08/23 14:43	1
Styrene	0.27	U	1.0	0.27	ug/L			10/08/23 14:43	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/08/23 14:43	1
Toluene	0.25	U	1.0	0.25	ug/L			10/08/23 14:43	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/08/23 14:43	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/08/23 14:43	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/08/23 14:43	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/08/23 14:43	1
Vinyl chloride	**2.7**		1.0	0.40	ug/L			10/08/23 14:43	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/08/23 14:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*60 - 124*		*10/08/23 14:43*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*10/08/23 14:43*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*10/08/23 14:43*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*10/08/23 14:43*	*1*

Client Sample ID: LC34-DPT0952-008.0-20231002
Lab Sample ID: 670-27943-7

Date Collected: 10/02/23 11:35
Matrix: Water
Date Received: 10/04/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/08/23 15:02	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/08/23 15:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/08/23 15:02	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/08/23 15:02	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/08/23 15:02	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/08/23 15:02	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/08/23 15:02	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/08/23 15:02	1
1,2-Dibromoethane (EDB)	0.33	U	2.0	0.33	ug/L			10/08/23 15:02	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/08/23 15:02	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/08/23 15:02	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/08/23 15:02	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/08/23 15:02	1
1,4-Dichlorobenzene	0.31	U	2.0	0.31	ug/L			10/08/23 15:02	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/08/23 15:02	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/08/23 15:02	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			10/08/23 15:02	1
Acetone	3.7	U	10	3.7	ug/L			10/08/23 15:02	1
Benzene	0.27	U	1.0	0.27	ug/L			10/08/23 15:02	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/08/23 15:02	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/08/23 15:02	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/08/23 15:02	1
Carbon disulfide	**0.90**	**I**	2.0	0.43	ug/L			10/08/23 15:02	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/08/23 15:02	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/08/23 15:02	1
Chloroethane	4.6	U J3	5.0	4.6	ug/L			10/08/23 15:02	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/08/23 15:02	1

Client Sample ID: LC34-DPT0952-008.0-20231002
Lab Sample ID: 670-27943-7

Date Collected: 10/02/23 11:35
Matrix: Water
Date Received: 10/04/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	0.54	U	1.0	0.54	ug/L			10/08/23 15:02	1
cis-1,2-Dichloroethene	**44**		1.0	0.25	ug/L			10/08/23 15:02	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/08/23 15:02	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/08/23 15:02	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/08/23 15:02	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/08/23 15:02	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/08/23 15:02	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/08/23 15:02	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/08/23 15:02	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/08/23 15:02	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/08/23 15:02	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/08/23 15:02	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/08/23 15:02	1
Styrene	0.27	U	1.0	0.27	ug/L			10/08/23 15:02	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/08/23 15:02	1
Toluene	0.25	U	1.0	0.25	ug/L			10/08/23 15:02	1
trans-1,2-Dichloroethene	**0.36**	**I**	1.0	0.34	ug/L			10/08/23 15:02	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/08/23 15:02	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/08/23 15:02	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/08/23 15:02	1
Vinyl chloride	**74**		1.0	0.40	ug/L			10/08/23 15:02	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/08/23 15:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*60 - 124*		*10/08/23 15:02*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*10/08/23 15:02*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*10/08/23 15:02*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/08/23 15:02*	*1*

Client Sample ID: LC34-DPT0952-013.0-20231002
Lab Sample ID: 670-27943-8

Date Collected: 10/02/23 11:50
Matrix: Water
Date Received: 10/04/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/08/23 15:21	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/08/23 15:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/08/23 15:21	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/08/23 15:21	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/08/23 15:21	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/08/23 15:21	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/08/23 15:21	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/08/23 15:21	1
1,2-Dibromoethane (EDB)	0.33	U	2.0	0.33	ug/L			10/08/23 15:21	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/08/23 15:21	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/08/23 15:21	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/08/23 15:21	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/08/23 15:21	1
1,4-Dichlorobenzene	0.31	U	2.0	0.31	ug/L			10/08/23 15:21	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/08/23 15:21	1

Client Sample ID: LC34-DPT0952-013.0-20231002
Lab Sample ID: 670-27943-8

Date Collected: 10/02/23 11:50
Matrix: Water
Date Received: 10/04/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	3.2	U	10	3.2	ug/L			10/08/23 15:21	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			10/08/23 15:21	1
Acetone	3.7	U	10	3.7	ug/L			10/08/23 15:21	1
Benzene	0.27	U	1.0	0.27	ug/L			10/08/23 15:21	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/08/23 15:21	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/08/23 15:21	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/08/23 15:21	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/08/23 15:21	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/08/23 15:21	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/08/23 15:21	1
Chloroethane	4.6	U J3	5.0	4.6	ug/L			10/08/23 15:21	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/08/23 15:21	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/08/23 15:21	1
cis-1,2-Dichloroethene	**38**		1.0	0.25	ug/L			10/08/23 15:21	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/08/23 15:21	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/08/23 15:21	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/08/23 15:21	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/08/23 15:21	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/08/23 15:21	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/08/23 15:21	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/08/23 15:21	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/08/23 15:21	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/08/23 15:21	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/08/23 15:21	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/08/23 15:21	1
Styrene	0.27	U	1.0	0.27	ug/L			10/08/23 15:21	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/08/23 15:21	1
Toluene	0.25	U	1.0	0.25	ug/L			10/08/23 15:21	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/08/23 15:21	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/08/23 15:21	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/08/23 15:21	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/08/23 15:21	1
Vinyl chloride	**60**		1.0	0.40	ug/L			10/08/23 15:21	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/08/23 15:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*		*10/08/23 15:21*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*10/08/23 15:21*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*10/08/23 15:21*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/08/23 15:21*	*1*

Client Sample ID: LC34-DPT0952-018.0-20231002
Lab Sample ID: 670-27943-9

Date Collected: 10/02/23 12:05
Matrix: Water
Date Received: 10/04/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/08/23 16:19	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/08/23 16:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/08/23 16:19	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27943-1

Client Sample ID: LC34-DPT0952-018.0-20231002
Date Collected: 10/02/23 12:05
Date Received: 10/04/23 08:00

Lab Sample ID: 670-27943-9
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/08/23 16:19	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/08/23 16:19	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/08/23 16:19	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/08/23 16:19	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/08/23 16:19	1
1,2-Dibromoethane (EDB)	0.33	U	2.0	0.33	ug/L			10/08/23 16:19	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/08/23 16:19	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/08/23 16:19	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/08/23 16:19	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/08/23 16:19	1
1,4-Dichlorobenzene	0.31	U	2.0	0.31	ug/L			10/08/23 16:19	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/08/23 16:19	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/08/23 16:19	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			10/08/23 16:19	1
Acetone	3.7	U	10	3.7	ug/L			10/08/23 16:19	1
Benzene	0.27	U	1.0	0.27	ug/L			10/08/23 16:19	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/08/23 16:19	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/08/23 16:19	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/08/23 16:19	1
Carbon disulfide	**0.71**	**I**	2.0	0.43	ug/L			10/08/23 16:19	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/08/23 16:19	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/08/23 16:19	1
Chloroethane	4.6	U J3	5.0	4.6	ug/L			10/08/23 16:19	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/08/23 16:19	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/08/23 16:19	1
cis-1,2-Dichloroethene	**37**		1.0	0.25	ug/L			10/08/23 16:19	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/08/23 16:19	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/08/23 16:19	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/08/23 16:19	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/08/23 16:19	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/08/23 16:19	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/08/23 16:19	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/08/23 16:19	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/08/23 16:19	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/08/23 16:19	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/08/23 16:19	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/08/23 16:19	1
Styrene	0.27	U	1.0	0.27	ug/L			10/08/23 16:19	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/08/23 16:19	1
Toluene	0.25	U	1.0	0.25	ug/L			10/08/23 16:19	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/08/23 16:19	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/08/23 16:19	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/08/23 16:19	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/08/23 16:19	1
Vinyl chloride	**77**		1.0	0.40	ug/L			10/08/23 16:19	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/08/23 16:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*60 - 124*		*10/08/23 16:19*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*10/08/23 16:19*	*1*

Client Sample ID: LC34-DPT0952-018.0-20231002
Lab Sample ID: 670-27943-9

Date Collected: 10/02/23 12:05
Matrix: Water
Date Received: 10/04/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*10/08/23 16:19*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/08/23 16:19*	*1*

Client Sample ID: LC34-DPT0952-025.0-20231002
Lab Sample ID: 670-27943-10

Date Collected: 10/02/23 12:20
Matrix: Water
Date Received: 10/04/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.42	U	2.0	0.42	ug/L			10/08/23 17:38	2
1,1,2,2-Tetrachloroethane	0.80	U	2.0	0.80	ug/L			10/08/23 17:38	2
1,1,2-Trichloro-1,2,2-trifluoroethane	0.46	U	2.0	0.46	ug/L			10/08/23 17:38	2
1,1,2-Trichloroethane	0.64	U	2.0	0.64	ug/L			10/08/23 17:38	2
1,1-Dichloroethane	0.66	U	2.0	0.66	ug/L			10/08/23 17:38	2
1,1-Dichloroethene	0.66	U	2.0	0.66	ug/L			10/08/23 17:38	2
1,2,4-Trichlorobenzene	1.1	U	10	1.1	ug/L			10/08/23 17:38	2
1,2-Dibromo-3-Chloropropane	3.6	U	10	3.6	ug/L			10/08/23 17:38	2
1,2-Dibromoethane (EDB)	0.66	U	4.0	0.66	ug/L			10/08/23 17:38	2
1,2-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/08/23 17:38	2
1,2-Dichloroethane	0.50	U	2.0	0.50	ug/L			10/08/23 17:38	2
1,2-Dichloropropane	0.44	U	2.0	0.44	ug/L			10/08/23 17:38	2
1,3-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/08/23 17:38	2
1,4-Dichlorobenzene	0.62	U	4.0	0.62	ug/L			10/08/23 17:38	2
2-Butanone (MEK)	13	U	20	13	ug/L			10/08/23 17:38	2
2-Hexanone	6.4	U	20	6.4	ug/L			10/08/23 17:38	2
4-Methyl-2-pentanone	5.4	U J3	20	5.4	ug/L			10/08/23 17:38	2
Acetone	7.4	U	20	7.4	ug/L			10/08/23 17:38	2
Benzene	0.54	U	2.0	0.54	ug/L			10/08/23 17:38	2
Bromodichloromethane	0.50	U	2.0	0.50	ug/L			10/08/23 17:38	2
Bromoform	1.2	U	2.0	1.2	ug/L			10/08/23 17:38	2
Bromomethane	7.4	U	10	7.4	ug/L			10/08/23 17:38	2
Carbon disulfide	0.86	U	4.0	0.86	ug/L			10/08/23 17:38	2
Carbon tetrachloride	0.60	U	2.0	0.60	ug/L			10/08/23 17:38	2
Chlorobenzene	0.30	U	2.0	0.30	ug/L			10/08/23 17:38	2
Chloroethane	9.2	U J3	10	9.2	ug/L			10/08/23 17:38	2
Chloroform	0.54	U	2.0	0.54	ug/L			10/08/23 17:38	2
Chloromethane	1.1	U	2.0	1.1	ug/L			10/08/23 17:38	2
cis-1,2-Dichloroethene	**5.5**		2.0	0.50	ug/L			10/08/23 17:38	2
cis-1,3-Dichloropropene	0.52	U	2.0	0.52	ug/L			10/08/23 17:38	2
Cyclohexane	0.56	U	2.0	0.56	ug/L			10/08/23 17:38	2
Dibromochloromethane	0.78	U	2.0	0.78	ug/L			10/08/23 17:38	2
Dichlorodifluoromethane	0.72	U	2.0	0.72	ug/L			10/08/23 17:38	2
Ethylbenzene	0.40	U	2.0	0.40	ug/L			10/08/23 17:38	2
Isopropylbenzene	0.52	U	2.0	0.52	ug/L			10/08/23 17:38	2
m,p-Xylenes	0.98	U	2.0	0.98	ug/L			10/08/23 17:38	2
Methyl acetate	6.4	U	10	6.4	ug/L			10/08/23 17:38	2
Methyl tert-butyl ether	1.6	U	10	1.6	ug/L			10/08/23 17:38	2
Methylene Chloride	6.4	U	10	6.4	ug/L			10/08/23 17:38	2
o-Xylene	0.52	U	2.0	0.52	ug/L			10/08/23 17:38	2

Client Sample ID: LC34-DPT0952-025.0-20231002
Lab Sample ID: 670-27943-10

Date Collected: 10/02/23 12:20
Matrix: Water
Date Received: 10/04/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.54	U	2.0	0.54	ug/L			10/08/23 17:38	2
Tetrachloroethene	0.70	U	2.0	0.70	ug/L			10/08/23 17:38	2
Toluene	0.50	U	2.0	0.50	ug/L			10/08/23 17:38	2
trans-1,2-Dichloroethene	0.68	U	2.0	0.68	ug/L			10/08/23 17:38	2
trans-1,3-Dichloropropene	0.46	U	2.0	0.46	ug/L			10/08/23 17:38	2
Trichloroethene	0.40	U	2.0	0.40	ug/L			10/08/23 17:38	2
Trichlorofluoromethane	0.66	U	2.0	0.66	ug/L			10/08/23 17:38	2
Vinyl chloride	**170**		2.0	0.80	ug/L			10/08/23 17:38	2
Xylenes, Total	0.46	U	2.0	0.46	ug/L			10/08/23 17:38	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*		*10/08/23 17:38*	*2*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*10/08/23 17:38*	*2*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*10/08/23 17:38*	*2*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/08/23 17:38*	*2*

Client Sample ID: LC34-DPT0952-034.0-20231002
Lab Sample ID: 670-27943-11

Date Collected: 10/02/23 12:40
Matrix: Water
Date Received: 10/04/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.3	U	25	5.3	ug/L			10/08/23 18:42	25
1,1,2,2-Tetrachloroethane	10	U	25	10	ug/L			10/08/23 18:42	25
1,1,2-Trichloro-1,2,2-trifluoroethane	5.8	U	25	5.8	ug/L			10/08/23 18:42	25
1,1,2-Trichloroethane	8.0	U	25	8.0	ug/L			10/08/23 18:42	25
1,1-Dichloroethane	8.3	U	25	8.3	ug/L			10/08/23 18:42	25
1,1-Dichloroethene	8.3	U	25	8.3	ug/L			10/08/23 18:42	25
1,2,4-Trichlorobenzene	13	U	130	13	ug/L			10/08/23 18:42	25
1,2-Dibromo-3-Chloropropane	45	U	130	45	ug/L			10/08/23 18:42	25
1,2-Dibromoethane (EDB)	8.3	U	50	8.3	ug/L			10/08/23 18:42	25
1,2-Dichlorobenzene	7.8	U	25	7.8	ug/L			10/08/23 18:42	25
1,2-Dichloroethane	6.3	U	25	6.3	ug/L			10/08/23 18:42	25
1,2-Dichloropropane	5.5	U	25	5.5	ug/L			10/08/23 18:42	25
1,3-Dichlorobenzene	7.8	U	25	7.8	ug/L			10/08/23 18:42	25
1,4-Dichlorobenzene	7.8	U	50	7.8	ug/L			10/08/23 18:42	25
2-Butanone (MEK)	160	U	250	160	ug/L			10/08/23 18:42	25
2-Hexanone	80	U	250	80	ug/L			10/08/23 18:42	25
4-Methyl-2-pentanone	68	U J3	250	68	ug/L			10/08/23 18:42	25
Acetone	93	U	250	93	ug/L			10/08/23 18:42	25
Benzene	6.8	U	25	6.8	ug/L			10/08/23 18:42	25
Bromodichloromethane	6.3	U	25	6.3	ug/L			10/08/23 18:42	25
Bromoform	15	U	25	15	ug/L			10/08/23 18:42	25
Bromomethane	93	U	130	93	ug/L			10/08/23 18:42	25
Carbon disulfide	11	U	50	11	ug/L			10/08/23 18:42	25
Carbon tetrachloride	7.5	U	25	7.5	ug/L			10/08/23 18:42	25
Chlorobenzene	3.8	U	25	3.8	ug/L			10/08/23 18:42	25
Chloroethane	120	U J3	130	120	ug/L			10/08/23 18:42	25
Chloroform	6.8	U	25	6.8	ug/L			10/08/23 18:42	25
Chloromethane	14	U	25	14	ug/L			10/08/23 18:42	25

Client Sample ID: LC34-DPT0952-034.0-20231002
Lab Sample ID: 670-27943-11

Date Collected: 10/02/23 12:40
Matrix: Water
Date Received: 10/04/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**6.3**	**I**	25	6.3	ug/L			10/08/23 18:42	25
cis-1,3-Dichloropropene	6.5	U	25	6.5	ug/L			10/08/23 18:42	25
Cyclohexane	7.0	U	25	7.0	ug/L			10/08/23 18:42	25
Dibromochloromethane	9.8	U	25	9.8	ug/L			10/08/23 18:42	25
Dichlorodifluoromethane	9.0	U	25	9.0	ug/L			10/08/23 18:42	25
Ethylbenzene	5.0	U	25	5.0	ug/L			10/08/23 18:42	25
Isopropylbenzene	6.5	U	25	6.5	ug/L			10/08/23 18:42	25
m,p-Xylenes	12	U	25	12	ug/L			10/08/23 18:42	25
Methyl acetate	80	U	130	80	ug/L			10/08/23 18:42	25
Methyl tert-butyl ether	20	U	130	20	ug/L			10/08/23 18:42	25
Methylene Chloride	80	U	130	80	ug/L			10/08/23 18:42	25
o-Xylene	6.5	U	25	6.5	ug/L			10/08/23 18:42	25
Styrene	6.8	U	25	6.8	ug/L			10/08/23 18:42	25
Tetrachloroethene	8.8	U	25	8.8	ug/L			10/08/23 18:42	25
Toluene	6.3	U	25	6.3	ug/L			10/08/23 18:42	25
trans-1,2-Dichloroethene	**37**		25	8.5	ug/L			10/08/23 18:42	25
trans-1,3-Dichloropropene	5.8	U	25	5.8	ug/L			10/08/23 18:42	25
Trichloroethene	5.0	U	25	5.0	ug/L			10/08/23 18:42	25
Trichlorofluoromethane	8.3	U	25	8.3	ug/L			10/08/23 18:42	25
Vinyl chloride	**3500**		25	10	ug/L			10/08/23 18:42	25
Xylenes, Total	5.8	U	25	5.8	ug/L			10/08/23 18:42	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*60 - 124*		*10/08/23 18:42*	*25*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/08/23 18:42*	*25*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*10/08/23 18:42*	*25*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/08/23 18:42*	*25*

Client Sample ID: LC34-DPT0952-038.0-20231002
Lab Sample ID: 670-27943-12

Date Collected: 10/02/23 13:00
Matrix: Water
Date Received: 10/04/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/08/23 16:38	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/08/23 16:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/08/23 16:38	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/08/23 16:38	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/08/23 16:38	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/08/23 16:38	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/08/23 16:38	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/08/23 16:38	1
1,2-Dibromoethane (EDB)	0.33	U	2.0	0.33	ug/L			10/08/23 16:38	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/08/23 16:38	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/08/23 16:38	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/08/23 16:38	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/08/23 16:38	1
1,4-Dichlorobenzene	0.31	U	2.0	0.31	ug/L			10/08/23 16:38	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/08/23 16:38	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/08/23 16:38	1

Client Sample ID: LC34-DPT0952-038.0-20231002
Lab Sample ID: 670-27943-12

Date Collected: 10/02/23 13:00
Matrix: Water
Date Received: 10/04/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			10/08/23 16:38	1
Acetone	3.7	U	10	3.7	ug/L			10/08/23 16:38	1
Benzene	0.27	U	1.0	0.27	ug/L			10/08/23 16:38	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/08/23 16:38	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/08/23 16:38	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/08/23 16:38	1
Carbon disulfide	**1.2**	**I**	2.0	0.43	ug/L			10/08/23 16:38	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/08/23 16:38	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/08/23 16:38	1
Chloroethane	4.6	U J3	5.0	4.6	ug/L			10/08/23 16:38	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/08/23 16:38	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/08/23 16:38	1
cis-1,2-Dichloroethene	**0.27**	**I**	1.0	0.25	ug/L			10/08/23 16:38	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/08/23 16:38	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/08/23 16:38	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/08/23 16:38	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/08/23 16:38	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/08/23 16:38	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/08/23 16:38	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/08/23 16:38	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/08/23 16:38	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/08/23 16:38	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/08/23 16:38	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/08/23 16:38	1
Styrene	0.27	U	1.0	0.27	ug/L			10/08/23 16:38	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/08/23 16:38	1
Toluene	0.25	U	1.0	0.25	ug/L			10/08/23 16:38	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/08/23 16:38	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/08/23 16:38	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/08/23 16:38	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/08/23 16:38	1
Vinyl chloride	**13**		1.0	0.40	ug/L			10/08/23 16:38	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/08/23 16:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*60 - 124*		*10/08/23 16:38*	*1*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*10/08/23 16:38*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*10/08/23 16:38*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/08/23 16:38*	*1*

Client Sample ID: LC34-DPT0953-008.0-20231002
Lab Sample ID: 670-27943-13

Date Collected: 10/02/23 13:50
Matrix: Water
Date Received: 10/04/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/08/23 16:57	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/08/23 16:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/08/23 16:57	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/08/23 16:57	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27943-1

Client Sample ID: LC34-DPT0953-008.0-20231002
Date Collected: 10/02/23 13:50
Date Received: 10/04/23 08:00

Lab Sample ID: 670-27943-13
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/08/23 16:57	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/08/23 16:57	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/08/23 16:57	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/08/23 16:57	1
1,2-Dibromoethane (EDB)	0.33	U	2.0	0.33	ug/L			10/08/23 16:57	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/08/23 16:57	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/08/23 16:57	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/08/23 16:57	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/08/23 16:57	1
1,4-Dichlorobenzene	0.31	U	2.0	0.31	ug/L			10/08/23 16:57	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/08/23 16:57	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/08/23 16:57	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			10/08/23 16:57	1
Acetone	3.7	U	10	3.7	ug/L			10/08/23 16:57	1
Benzene	0.27	U	1.0	0.27	ug/L			10/08/23 16:57	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/08/23 16:57	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/08/23 16:57	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/08/23 16:57	1
Carbon disulfide	**0.91**	**I**	2.0	0.43	ug/L			10/08/23 16:57	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/08/23 16:57	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/08/23 16:57	1
Chloroethane	4.6	U J3	5.0	4.6	ug/L			10/08/23 16:57	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/08/23 16:57	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/08/23 16:57	1
cis-1,2-Dichloroethene	**21**		1.0	0.25	ug/L			10/08/23 16:57	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/08/23 16:57	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/08/23 16:57	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/08/23 16:57	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/08/23 16:57	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/08/23 16:57	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/08/23 16:57	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/08/23 16:57	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/08/23 16:57	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/08/23 16:57	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/08/23 16:57	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/08/23 16:57	1
Styrene	0.27	U	1.0	0.27	ug/L			10/08/23 16:57	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/08/23 16:57	1
Toluene	0.25	U	1.0	0.25	ug/L			10/08/23 16:57	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/08/23 16:57	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/08/23 16:57	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/08/23 16:57	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/08/23 16:57	1
Vinyl chloride	**54**		1.0	0.40	ug/L			10/08/23 16:57	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/08/23 16:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*60 - 124*		*10/08/23 16:57*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*10/08/23 16:57*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*10/08/23 16:57*	*1*

Client Sample ID: LC34-DPT0953-008.0-20231002
Lab Sample ID: 670-27943-13
Date Collected: 10/02/23 13:50
Matrix: Water
Date Received: 10/04/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*70 - 130*		*10/08/23 16:57*	*1*

Client Sample ID: LC34-DPT0953-013.0-20231002
Lab Sample ID: 670-27943-14
Date Collected: 10/02/23 14:05
Matrix: Water
Date Received: 10/04/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/08/23 15:40	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/08/23 15:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/08/23 15:40	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/08/23 15:40	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/08/23 15:40	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/08/23 15:40	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/08/23 15:40	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/08/23 15:40	1
1,2-Dibromoethane (EDB)	0.33	U	2.0	0.33	ug/L			10/08/23 15:40	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/08/23 15:40	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/08/23 15:40	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/08/23 15:40	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/08/23 15:40	1
1,4-Dichlorobenzene	0.31	U	2.0	0.31	ug/L			10/08/23 15:40	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/08/23 15:40	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/08/23 15:40	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			10/08/23 15:40	1
Acetone	3.7	U	10	3.7	ug/L			10/08/23 15:40	1
Benzene	0.27	U	1.0	0.27	ug/L			10/08/23 15:40	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/08/23 15:40	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/08/23 15:40	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/08/23 15:40	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/08/23 15:40	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/08/23 15:40	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/08/23 15:40	1
Chloroethane	4.6	U J3	5.0	4.6	ug/L			10/08/23 15:40	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/08/23 15:40	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/08/23 15:40	1
cis-1,2-Dichloroethene	**17**		1.0	0.25	ug/L			10/08/23 15:40	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/08/23 15:40	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/08/23 15:40	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/08/23 15:40	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/08/23 15:40	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/08/23 15:40	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/08/23 15:40	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/08/23 15:40	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/08/23 15:40	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/08/23 15:40	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/08/23 15:40	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/08/23 15:40	1
Styrene	0.27	U	1.0	0.27	ug/L			10/08/23 15:40	1

Client Sample ID: LC34-DPT0953-013.0-20231002
Lab Sample ID: 670-27943-14

Date Collected: 10/02/23 14:05
Matrix: Water
Date Received: 10/04/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/08/23 15:40	1
Toluene	0.25	U	1.0	0.25	ug/L			10/08/23 15:40	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/08/23 15:40	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/08/23 15:40	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/08/23 15:40	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/08/23 15:40	1
Vinyl chloride	**44**		1.0	0.40	ug/L			10/08/23 15:40	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/08/23 15:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*60 - 124*		*10/08/23 15:40*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*10/08/23 15:40*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*10/08/23 15:40*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/08/23 15:40*	*1*

Client Sample ID: LC34-DPT0953-018.0-20231002
Lab Sample ID: 670-27943-15

Date Collected: 10/02/23 14:20
Matrix: Water
Date Received: 10/04/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/08/23 17:16	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/08/23 17:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/08/23 17:16	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/08/23 17:16	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/08/23 17:16	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/08/23 17:16	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/08/23 17:16	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/08/23 17:16	1
1,2-Dibromoethane (EDB)	0.33	U	2.0	0.33	ug/L			10/08/23 17:16	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/08/23 17:16	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/08/23 17:16	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/08/23 17:16	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/08/23 17:16	1
1,4-Dichlorobenzene	0.31	U	2.0	0.31	ug/L			10/08/23 17:16	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/08/23 17:16	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/08/23 17:16	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			10/08/23 17:16	1
Acetone	3.7	U	10	3.7	ug/L			10/08/23 17:16	1
Benzene	0.27	U	1.0	0.27	ug/L			10/08/23 17:16	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/08/23 17:16	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/08/23 17:16	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/08/23 17:16	1
Carbon disulfide	**0.73**	**I**	2.0	0.43	ug/L			10/08/23 17:16	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/08/23 17:16	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/08/23 17:16	1
Chloroethane	4.6	U J3	5.0	4.6	ug/L			10/08/23 17:16	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/08/23 17:16	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/08/23 17:16	1
cis-1,2-Dichloroethene	**51**		1.0	0.25	ug/L			10/08/23 17:16	1

Client Sample ID: LC34-DPT0953-018.0-20231002
Lab Sample ID: 670-27943-15

Date Collected: 10/02/23 14:20
Matrix: Water
Date Received: 10/04/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/08/23 17:16	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/08/23 17:16	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/08/23 17:16	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/08/23 17:16	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/08/23 17:16	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/08/23 17:16	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/08/23 17:16	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/08/23 17:16	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/08/23 17:16	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/08/23 17:16	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/08/23 17:16	1
Styrene	0.27	U	1.0	0.27	ug/L			10/08/23 17:16	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/08/23 17:16	1
Toluene	0.25	U	1.0	0.25	ug/L			10/08/23 17:16	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/08/23 17:16	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/08/23 17:16	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/08/23 17:16	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/08/23 17:16	1
Vinyl chloride	**72**		1.0	0.40	ug/L			10/08/23 17:16	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/08/23 17:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*60 - 124*		*10/08/23 17:16*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*10/08/23 17:16*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*10/08/23 17:16*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*10/08/23 17:16*	*1*

Client Sample ID: LC34-DPT0953-025.0-20231002
Lab Sample ID: 670-27943-16

Date Collected: 10/02/23 14:40
Matrix: Water
Date Received: 10/04/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	11	U	50	11	ug/L			10/08/23 19:24	50
1,1,2,2-Tetrachloroethane	20	U	50	20	ug/L			10/08/23 19:24	50
1,1,2-Trichloro-1,2,2-trifluoroethane	12	U	50	12	ug/L			10/08/23 19:24	50
1,1,2-Trichloroethane	16	U	50	16	ug/L			10/08/23 19:24	50
1,1-Dichloroethane	17	U	50	17	ug/L			10/08/23 19:24	50
1,1-Dichloroethene	17	U	50	17	ug/L			10/08/23 19:24	50
1,2,4-Trichlorobenzene	27	U	250	27	ug/L			10/08/23 19:24	50
1,2-Dibromo-3-Chloropropane	90	U	250	90	ug/L			10/08/23 19:24	50
1,2-Dibromoethane (EDB)	17	U	100	17	ug/L			10/08/23 19:24	50
1,2-Dichlorobenzene	16	U	50	16	ug/L			10/08/23 19:24	50
1,2-Dichloroethane	13	U	50	13	ug/L			10/08/23 19:24	50
1,2-Dichloropropane	11	U	50	11	ug/L			10/08/23 19:24	50
1,3-Dichlorobenzene	16	U	50	16	ug/L			10/08/23 19:24	50
1,4-Dichlorobenzene	16	U	100	16	ug/L			10/08/23 19:24	50
2-Butanone (MEK)	320	U	500	320	ug/L			10/08/23 19:24	50
2-Hexanone	160	U	500	160	ug/L			10/08/23 19:24	50
4-Methyl-2-pentanone	140	U J3	500	140	ug/L			10/08/23 19:24	50

Client Sample ID: LC34-DPT0953-025.0-20231002
Lab Sample ID: 670-27943-16

Date Collected: 10/02/23 14:40
Matrix: Water
Date Received: 10/04/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	190	U	500	190	ug/L			10/08/23 19:24	50
Benzene	14	U	50	14	ug/L			10/08/23 19:24	50
Bromodichloromethane	13	U	50	13	ug/L			10/08/23 19:24	50
Bromoform	30	U	50	30	ug/L			10/08/23 19:24	50
Bromomethane	190	U	250	190	ug/L			10/08/23 19:24	50
Carbon disulfide	22	U	100	22	ug/L			10/08/23 19:24	50
Carbon tetrachloride	15	U	50	15	ug/L			10/08/23 19:24	50
Chlorobenzene	7.5	U	50	7.5	ug/L			10/08/23 19:24	50
Chloroethane	230	U J3	250	230	ug/L			10/08/23 19:24	50
Chloroform	14	U	50	14	ug/L			10/08/23 19:24	50
Chloromethane	27	U	50	27	ug/L			10/08/23 19:24	50
cis-1,2-Dichloroethene	**18**	**I**	50	13	ug/L			10/08/23 19:24	50
cis-1,3-Dichloropropene	13	U	50	13	ug/L			10/08/23 19:24	50
Cyclohexane	14	U	50	14	ug/L			10/08/23 19:24	50
Dibromochloromethane	20	U	50	20	ug/L			10/08/23 19:24	50
Dichlorodifluoromethane	18	U	50	18	ug/L			10/08/23 19:24	50
Ethylbenzene	10	U	50	10	ug/L			10/08/23 19:24	50
Isopropylbenzene	13	U	50	13	ug/L			10/08/23 19:24	50
m,p-Xylenes	25	U	50	25	ug/L			10/08/23 19:24	50
Methyl acetate	160	U	250	160	ug/L			10/08/23 19:24	50
Methyl tert-butyl ether	41	U	250	41	ug/L			10/08/23 19:24	50
Methylene Chloride	160	U	250	160	ug/L			10/08/23 19:24	50
o-Xylene	13	U	50	13	ug/L			10/08/23 19:24	50
Styrene	14	U	50	14	ug/L			10/08/23 19:24	50
Tetrachloroethene	18	U	50	18	ug/L			10/08/23 19:24	50
Toluene	13	U	50	13	ug/L			10/08/23 19:24	50
trans-1,2-Dichloroethene	**29**	**I**	50	17	ug/L			10/08/23 19:24	50
trans-1,3-Dichloropropene	12	U	50	12	ug/L			10/08/23 19:24	50
Trichloroethene	10	U	50	10	ug/L			10/08/23 19:24	50
Trichlorofluoromethane	17	U	50	17	ug/L			10/08/23 19:24	50
Vinyl chloride	**3700**		50	20	ug/L			10/08/23 19:24	50
Xylenes, Total	12	U	50	12	ug/L			10/08/23 19:24	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*60 - 124*		*10/08/23 19:24*	*50*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*10/08/23 19:24*	*50*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*10/08/23 19:24*	*50*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/08/23 19:24*	*50*

Client Sample ID: LC34-DPT0953-034.0-20231002
Lab Sample ID: 670-27943-17

Date Collected: 10/02/23 15:00
Matrix: Water
Date Received: 10/04/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.3	U	25	5.3	ug/L			10/08/23 17:59	25
1,1,2,2-Tetrachloroethane	10	U	25	10	ug/L			10/08/23 17:59	25
1,1,2-Trichloro-1,2,2-trifluoroethane	5.8	U	25	5.8	ug/L			10/08/23 17:59	25
1,1,2-Trichloroethane	8.0	U	25	8.0	ug/L			10/08/23 17:59	25
1,1-Dichloroethane	8.3	U	25	8.3	ug/L			10/08/23 17:59	25

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27943-1

Client Sample ID: LC34-DPT0953-034.0-20231002
Date Collected: 10/02/23 15:00
Date Received: 10/04/23 08:00

Lab Sample ID: 670-27943-17
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	8.3	U	25	8.3	ug/L			10/08/23 17:59	25
1,2,4-Trichlorobenzene	13	U	130	13	ug/L			10/08/23 17:59	25
1,2-Dibromo-3-Chloropropane	45	U	130	45	ug/L			10/08/23 17:59	25
1,2-Dibromoethane (EDB)	8.3	U	50	8.3	ug/L			10/08/23 17:59	25
1,2-Dichlorobenzene	7.8	U	25	7.8	ug/L			10/08/23 17:59	25
1,2-Dichloroethane	6.3	U	25	6.3	ug/L			10/08/23 17:59	25
1,2-Dichloropropane	5.5	U	25	5.5	ug/L			10/08/23 17:59	25
1,3-Dichlorobenzene	7.8	U	25	7.8	ug/L			10/08/23 17:59	25
1,4-Dichlorobenzene	7.8	U	50	7.8	ug/L			10/08/23 17:59	25
2-Butanone (MEK)	160	U J3	250	160	ug/L			10/08/23 17:59	25
2-Hexanone	80	U	250	80	ug/L			10/08/23 17:59	25
4-Methyl-2-pentanone	68	U	250	68	ug/L			10/08/23 17:59	25
Acetone	93	U J3	250	93	ug/L			10/08/23 17:59	25
Benzene	6.8	U	25	6.8	ug/L			10/08/23 17:59	25
Bromodichloromethane	6.3	U	25	6.3	ug/L			10/08/23 17:59	25
Bromoform	15	U	25	15	ug/L			10/08/23 17:59	25
Bromomethane	93	U	130	93	ug/L			10/08/23 17:59	25
Carbon disulfide	11	U	50	11	ug/L			10/08/23 17:59	25
Carbon tetrachloride	7.5	U	25	7.5	ug/L			10/08/23 17:59	25
Chlorobenzene	3.8	U	25	3.8	ug/L			10/08/23 17:59	25
Chloroethane	120	U	130	120	ug/L			10/08/23 17:59	25
Chloroform	6.8	U	25	6.8	ug/L			10/08/23 17:59	25
Chloromethane	14	U	25	14	ug/L			10/08/23 17:59	25
cis-1,2-Dichloroethene	**35**		25	6.3	ug/L			10/08/23 17:59	25
cis-1,3-Dichloropropene	6.5	U	25	6.5	ug/L			10/08/23 17:59	25
Cyclohexane	7.0	U	25	7.0	ug/L			10/08/23 17:59	25
Dibromochloromethane	9.8	U	25	9.8	ug/L			10/08/23 17:59	25
Dichlorodifluoromethane	9.0	U	25	9.0	ug/L			10/08/23 17:59	25
Ethylbenzene	5.0	U	25	5.0	ug/L			10/08/23 17:59	25
Isopropylbenzene	6.5	U	25	6.5	ug/L			10/08/23 17:59	25
m,p-Xylenes	12	U	25	12	ug/L			10/08/23 17:59	25
Methyl acetate	80	U	130	80	ug/L			10/08/23 17:59	25
Methyl tert-butyl ether	20	U	130	20	ug/L			10/08/23 17:59	25
Methylene Chloride	80	U	130	80	ug/L			10/08/23 17:59	25
o-Xylene	6.5	U	25	6.5	ug/L			10/08/23 17:59	25
Styrene	6.8	U	25	6.8	ug/L			10/08/23 17:59	25
Tetrachloroethene	8.8	U	25	8.8	ug/L			10/08/23 17:59	25
Toluene	6.3	U	25	6.3	ug/L			10/08/23 17:59	25
trans-1,2-Dichloroethene	8.5	U	25	8.5	ug/L			10/08/23 17:59	25
trans-1,3-Dichloropropene	5.8	U	25	5.8	ug/L			10/08/23 17:59	25
Trichloroethene	5.0	U	25	5.0	ug/L			10/08/23 17:59	25
Trichlorofluoromethane	8.3	U	25	8.3	ug/L			10/08/23 17:59	25
Vinyl chloride	**2500**		50	20	ug/L			10/09/23 19:32	50
Xylenes, Total	5.8	U	25	5.8	ug/L			10/08/23 17:59	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 124*		*10/08/23 17:59*	*25*
1,2-Dichloroethane-d4 (Surr)	*87*		*60 - 124*		*10/09/23 19:32*	*50*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*		*10/08/23 17:59*	*25*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*10/09/23 19:32*	*50*

Client Sample ID: LC34-DPT0953-034.0-20231002
Lab Sample ID: 670-27943-17

Date Collected: 10/02/23 15:00
Matrix: Water
Date Received: 10/04/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	109		70 - 130		10/08/23 17:59	25
Dibromofluoromethane (Surr)	92		70 - 130		10/09/23 19:32	50
Toluene-d8 (Surr)	95		70 - 130		10/08/23 17:59	25
Toluene-d8 (Surr)	110		70 - 130		10/09/23 19:32	50

Client Sample ID: LC34-DPT0953-038.0-20231002
Lab Sample ID: 670-27943-18

Date Collected: 10/02/23 15:20
Matrix: Water
Date Received: 10/04/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/08/23 13:56	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/08/23 13:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/08/23 13:56	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/08/23 13:56	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/08/23 13:56	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/08/23 13:56	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/08/23 13:56	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/08/23 13:56	1
1,2-Dibromoethane (EDB)	0.33	U	2.0	0.33	ug/L			10/08/23 13:56	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/08/23 13:56	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/08/23 13:56	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/08/23 13:56	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/08/23 13:56	1
1,4-Dichlorobenzene	0.31	U	2.0	0.31	ug/L			10/08/23 13:56	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			10/08/23 13:56	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/08/23 13:56	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/08/23 13:56	1
Acetone	3.7	U J3	10	3.7	ug/L			10/08/23 13:56	1
Benzene	0.27	U	1.0	0.27	ug/L			10/08/23 13:56	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/08/23 13:56	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/08/23 13:56	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/08/23 13:56	1
Carbon disulfide	**1.1**	**I**	2.0	0.43	ug/L			10/08/23 13:56	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/08/23 13:56	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/08/23 13:56	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/08/23 13:56	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/08/23 13:56	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/08/23 13:56	1
cis-1,2-Dichloroethene	**0.88**	**I**	1.0	0.25	ug/L			10/08/23 13:56	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/08/23 13:56	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/08/23 13:56	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/08/23 13:56	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/08/23 13:56	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/08/23 13:56	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/08/23 13:56	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/08/23 13:56	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/08/23 13:56	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/08/23 13:56	1

Client Sample ID: LC34-DPT0953-038.0-20231002
Lab Sample ID: 670-27943-18

Date Collected: 10/02/23 15:20
Matrix: Water
Date Received: 10/04/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/08/23 13:56	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/08/23 13:56	1
Styrene	0.27	U	1.0	0.27	ug/L			10/08/23 13:56	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/08/23 13:56	1
Toluene	**0.34**	**I**	1.0	0.25	ug/L			10/08/23 13:56	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/08/23 13:56	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/08/23 13:56	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/08/23 13:56	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/08/23 13:56	1
Vinyl chloride	**1.1**		1.0	0.40	ug/L			10/08/23 13:56	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/08/23 13:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 124*		*10/08/23 13:56*	*1*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*		*10/08/23 13:56*	*1*
Dibromofluoromethane (Surr)	*111*		*70 - 130*		*10/08/23 13:56*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*10/08/23 13:56*	*1*

Client Sample ID: LC34-DPT0954-008.0-20231003
Lab Sample ID: 670-27943-19

Date Collected: 10/03/23 08:00
Matrix: Water
Date Received: 10/04/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/08/23 14:15	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/08/23 14:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/08/23 14:15	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/08/23 14:15	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/08/23 14:15	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/08/23 14:15	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/08/23 14:15	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/08/23 14:15	1
1,2-Dibromoethane (EDB)	0.33	U	2.0	0.33	ug/L			10/08/23 14:15	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/08/23 14:15	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/08/23 14:15	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/08/23 14:15	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/08/23 14:15	1
1,4-Dichlorobenzene	0.31	U	2.0	0.31	ug/L			10/08/23 14:15	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			10/08/23 14:15	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/08/23 14:15	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/08/23 14:15	1
Acetone	3.7	U J3	10	3.7	ug/L			10/08/23 14:15	1
Benzene	0.27	U	1.0	0.27	ug/L			10/08/23 14:15	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/08/23 14:15	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/08/23 14:15	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/08/23 14:15	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/08/23 14:15	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/08/23 14:15	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/08/23 14:15	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/08/23 14:15	1

Client Sample ID: LC34-DPT0954-008.0-20231003
Lab Sample ID: 670-27943-19

Date Collected: 10/03/23 08:00
Matrix: Water
Date Received: 10/04/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	0.27	U	1.0	0.27	ug/L			10/08/23 14:15	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/08/23 14:15	1
cis-1,2-Dichloroethene	**19**		1.0	0.25	ug/L			10/08/23 14:15	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/08/23 14:15	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/08/23 14:15	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/08/23 14:15	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/08/23 14:15	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/08/23 14:15	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/08/23 14:15	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/08/23 14:15	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/08/23 14:15	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/08/23 14:15	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/08/23 14:15	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/08/23 14:15	1
Styrene	0.27	U	1.0	0.27	ug/L			10/08/23 14:15	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/08/23 14:15	1
Toluene	0.25	U	1.0	0.25	ug/L			10/08/23 14:15	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/08/23 14:15	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/08/23 14:15	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/08/23 14:15	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/08/23 14:15	1
Vinyl chloride	**150**		1.0	0.40	ug/L			10/08/23 14:15	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/08/23 14:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 124*		*10/08/23 14:15*	*1*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*		*10/08/23 14:15*	*1*
Dibromofluoromethane (Surr)	*112*		*70 - 130*		*10/08/23 14:15*	*1*
Toluene-d8 (Surr)	*93*		*70 - 130*		*10/08/23 14:15*	*1*

Client Sample ID: LC34-DPT0954-013.0-20231003
Lab Sample ID: 670-27943-20

Date Collected: 10/03/23 08:15
Matrix: Water
Date Received: 10/04/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2.1	U	10	2.1	ug/L			10/08/23 17:17	10
1,1,2,2-Tetrachloroethane	4.0	U	10	4.0	ug/L			10/08/23 17:17	10
1,1,2-Trichloro-1,2,2-trifluoroethane	2.3	U	10	2.3	ug/L			10/08/23 17:17	10
1,1,2-Trichloroethane	3.2	U	10	3.2	ug/L			10/08/23 17:17	10
1,1-Dichloroethane	3.3	U	10	3.3	ug/L			10/08/23 17:17	10
1,1-Dichloroethene	3.3	U	10	3.3	ug/L			10/08/23 17:17	10
1,2,4-Trichlorobenzene	5.3	U	50	5.3	ug/L			10/08/23 17:17	10
1,2-Dibromo-3-Chloropropane	18	U	50	18	ug/L			10/08/23 17:17	10
1,2-Dibromoethane (EDB)	3.3	U	20	3.3	ug/L			10/08/23 17:17	10
1,2-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/08/23 17:17	10
1,2-Dichloroethane	2.5	U	10	2.5	ug/L			10/08/23 17:17	10
1,2-Dichloropropane	2.2	U	10	2.2	ug/L			10/08/23 17:17	10
1,3-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/08/23 17:17	10
1,4-Dichlorobenzene	3.1	U	20	3.1	ug/L			10/08/23 17:17	10

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27943-1

Client Sample ID: LC34-DPT0954-013.0-20231003
Date Collected: 10/03/23 08:15
Date Received: 10/04/23 08:00

Lab Sample ID: 670-27943-20
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	64	U J3	100	64	ug/L			10/08/23 17:17	10
2-Hexanone	32	U	100	32	ug/L			10/08/23 17:17	10
4-Methyl-2-pentanone	27	U	100	27	ug/L			10/08/23 17:17	10
Acetone	37	U J3	100	37	ug/L			10/08/23 17:17	10
Benzene	2.7	U	10	2.7	ug/L			10/08/23 17:17	10
Bromodichloromethane	2.5	U	10	2.5	ug/L			10/08/23 17:17	10
Bromoform	5.9	U	10	5.9	ug/L			10/08/23 17:17	10
Bromomethane	37	U	50	37	ug/L			10/08/23 17:17	10
Carbon disulfide	4.3	U	20	4.3	ug/L			10/08/23 17:17	10
Carbon tetrachloride	3.0	U	10	3.0	ug/L			10/08/23 17:17	10
Chlorobenzene	1.5	U	10	1.5	ug/L			10/08/23 17:17	10
Chloroethane	46	U	50	46	ug/L			10/08/23 17:17	10
Chloroform	2.7	U	10	2.7	ug/L			10/08/23 17:17	10
Chloromethane	5.4	U	10	5.4	ug/L			10/08/23 17:17	10
cis-1,2-Dichloroethene	**220**		10	2.5	ug/L			10/08/23 17:17	10
cis-1,3-Dichloropropene	2.6	U	10	2.6	ug/L			10/08/23 17:17	10
Cyclohexane	2.8	U	10	2.8	ug/L			10/08/23 17:17	10
Dibromochloromethane	3.9	U	10	3.9	ug/L			10/08/23 17:17	10
Dichlorodifluoromethane	3.6	U	10	3.6	ug/L			10/08/23 17:17	10
Ethylbenzene	2.0	U	10	2.0	ug/L			10/08/23 17:17	10
Isopropylbenzene	2.6	U	10	2.6	ug/L			10/08/23 17:17	10
m,p-Xylenes	4.9	U	10	4.9	ug/L			10/08/23 17:17	10
Methyl acetate	32	U	50	32	ug/L			10/08/23 17:17	10
Methyl tert-butyl ether	8.1	U	50	8.1	ug/L			10/08/23 17:17	10
Methylene Chloride	32	U	50	32	ug/L			10/08/23 17:17	10
o-Xylene	2.6	U	10	2.6	ug/L			10/08/23 17:17	10
Styrene	2.7	U	10	2.7	ug/L			10/08/23 17:17	10
Tetrachloroethene	3.5	U	10	3.5	ug/L			10/08/23 17:17	10
Toluene	2.5	U	10	2.5	ug/L			10/08/23 17:17	10
trans-1,2-Dichloroethene	**5.6**	**I**	10	3.4	ug/L			10/08/23 17:17	10
trans-1,3-Dichloropropene	2.3	U	10	2.3	ug/L			10/08/23 17:17	10
Trichloroethene	2.0	U	10	2.0	ug/L			10/08/23 17:17	10
Trichlorofluoromethane	3.3	U	10	3.3	ug/L			10/08/23 17:17	10
Vinyl chloride	**960**		20	8.0	ug/L			10/09/23 18:16	20
Xylenes, Total	2.3	U	10	2.3	ug/L			10/08/23 17:17	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 124*		*10/08/23 17:17*	*10*
1,2-Dichloroethane-d4 (Surr)	*87*		*60 - 124*		*10/09/23 18:16*	*20*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*		*10/08/23 17:17*	*10*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*10/09/23 18:16*	*20*
Dibromofluoromethane (Surr)	*112*		*70 - 130*		*10/08/23 17:17*	*10*
Dibromofluoromethane (Surr)	*94*		*70 - 130*		*10/09/23 18:16*	*20*
Toluene-d8 (Surr)	*93*		*70 - 130*		*10/08/23 17:17*	*10*
Toluene-d8 (Surr)	*110*		*70 - 130*		*10/09/23 18:16*	*20*

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27943-1

Client Sample ID: LC34-DPT0954-018.0-20231003
Date Collected: 10/03/23 08:30
Date Received: 10/04/23 08:00

Lab Sample ID: 670-27943-21
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	21	U	100	21	ug/L			10/08/23 18:40	100
1,1,2,2-Tetrachloroethane	40	U	100	40	ug/L			10/08/23 18:40	100
1,1,2-Trichloro-1,2,2-trifluoroethane	23	U	100	23	ug/L			10/08/23 18:40	100
1,1,2-Trichloroethane	32	U	100	32	ug/L			10/08/23 18:40	100
1,1-Dichloroethane	33	U	100	33	ug/L			10/08/23 18:40	100
1,1-Dichloroethene	33	U	100	33	ug/L			10/08/23 18:40	100
1,2,4-Trichlorobenzene	53	U	500	53	ug/L			10/08/23 18:40	100
1,2-Dibromo-3-Chloropropane	180	U	500	180	ug/L			10/08/23 18:40	100
1,2-Dibromoethane (EDB)	33	U	200	33	ug/L			10/08/23 18:40	100
1,2-Dichlorobenzene	31	U	100	31	ug/L			10/08/23 18:40	100
1,2-Dichloroethane	25	U	100	25	ug/L			10/08/23 18:40	100
1,2-Dichloropropane	22	U	100	22	ug/L			10/08/23 18:40	100
1,3-Dichlorobenzene	31	U	100	31	ug/L			10/08/23 18:40	100
1,4-Dichlorobenzene	31	U	200	31	ug/L			10/08/23 18:40	100
2-Butanone (MEK)	640	U J3	1000	640	ug/L			10/08/23 18:40	100
2-Hexanone	320	U	1000	320	ug/L			10/08/23 18:40	100
4-Methyl-2-pentanone	270	U	1000	270	ug/L			10/08/23 18:40	100
Acetone	370	U J3	1000	370	ug/L			10/08/23 18:40	100
Benzene	27	U	100	27	ug/L			10/08/23 18:40	100
Bromodichloromethane	25	U	100	25	ug/L			10/08/23 18:40	100
Bromoform	59	U	100	59	ug/L			10/08/23 18:40	100
Bromomethane	370	U	500	370	ug/L			10/08/23 18:40	100
Carbon disulfide	43	U	200	43	ug/L			10/08/23 18:40	100
Carbon tetrachloride	30	U	100	30	ug/L			10/08/23 18:40	100
Chlorobenzene	15	U	100	15	ug/L			10/08/23 18:40	100
Chloroethane	460	U	500	460	ug/L			10/08/23 18:40	100
Chloroform	27	U	100	27	ug/L			10/08/23 18:40	100
Chloromethane	54	U	100	54	ug/L			10/08/23 18:40	100
cis-1,2-Dichloroethene	**5700**		100	25	ug/L			10/08/23 18:40	100
cis-1,3-Dichloropropene	26	U	100	26	ug/L			10/08/23 18:40	100
Cyclohexane	28	U	100	28	ug/L			10/08/23 18:40	100
Dibromochloromethane	39	U	100	39	ug/L			10/08/23 18:40	100
Dichlorodifluoromethane	36	U	100	36	ug/L			10/08/23 18:40	100
Ethylbenzene	20	U	100	20	ug/L			10/08/23 18:40	100
Isopropylbenzene	26	U	100	26	ug/L			10/08/23 18:40	100
m,p-Xylenes	49	U	100	49	ug/L			10/08/23 18:40	100
Methyl acetate	320	U	500	320	ug/L			10/08/23 18:40	100
Methyl tert-butyl ether	81	U	500	81	ug/L			10/08/23 18:40	100
Methylene Chloride	320	U	500	320	ug/L			10/08/23 18:40	100
o-Xylene	26	U	100	26	ug/L			10/08/23 18:40	100
Styrene	27	U	100	27	ug/L			10/08/23 18:40	100
Tetrachloroethene	35	U	100	35	ug/L			10/08/23 18:40	100
Toluene	25	U	100	25	ug/L			10/08/23 18:40	100
trans-1,2-Dichloroethene	**180**		100	34	ug/L			10/08/23 18:40	100
trans-1,3-Dichloropropene	23	U	100	23	ug/L			10/08/23 18:40	100
Trichloroethene	20	U	100	20	ug/L			10/08/23 18:40	100
Trichlorofluoromethane	33	U	100	33	ug/L			10/08/23 18:40	100
Vinyl chloride	**6000**		100	40	ug/L			10/08/23 18:40	100
Xylenes, Total	23	U	100	23	ug/L			10/08/23 18:40	100

Client Sample ID: LC34-DPT0954-018.0-20231003
Lab Sample ID: 670-27943-21

Date Collected: 10/03/23 08:30
Matrix: Water
Date Received: 10/04/23 08:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		60 - 124		10/08/23 18:40	100
4-Bromofluorobenzene (Surr)	91		70 - 130		10/08/23 18:40	100
Dibromofluoromethane (Surr)	109		70 - 130		10/08/23 18:40	100
Toluene-d8 (Surr)	90		70 - 130		10/08/23 18:40	100

Client Sample ID: LC34-DPT0954-025.0-20231003
Lab Sample ID: 670-27943-22

Date Collected: 10/03/23 08:50
Matrix: Water
Date Received: 10/04/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2.1	U	10	2.1	ug/L			10/08/23 17:38	10
1,1,2,2-Tetrachloroethane	4.0	U	10	4.0	ug/L			10/08/23 17:38	10
1,1,2-Trichloro-1,2,2-trifluoroethane	2.3	U	10	2.3	ug/L			10/08/23 17:38	10
1,1,2-Trichloroethane	3.2	U	10	3.2	ug/L			10/08/23 17:38	10
1,1-Dichloroethane	3.3	U	10	3.3	ug/L			10/08/23 17:38	10
1,1-Dichloroethene	3.3	U	10	3.3	ug/L			10/08/23 17:38	10
1,2,4-Trichlorobenzene	5.3	U	50	5.3	ug/L			10/08/23 17:38	10
1,2-Dibromo-3-Chloropropane	18	U	50	18	ug/L			10/08/23 17:38	10
1,2-Dibromoethane (EDB)	3.3	U	20	3.3	ug/L			10/08/23 17:38	10
1,2-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/08/23 17:38	10
1,2-Dichloroethane	2.5	U	10	2.5	ug/L			10/08/23 17:38	10
1,2-Dichloropropane	2.2	U	10	2.2	ug/L			10/08/23 17:38	10
1,3-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/08/23 17:38	10
1,4-Dichlorobenzene	3.1	U	20	3.1	ug/L			10/08/23 17:38	10
2-Butanone (MEK)	64	U J3	100	64	ug/L			10/08/23 17:38	10
2-Hexanone	32	U	100	32	ug/L			10/08/23 17:38	10
4-Methyl-2-pentanone	27	U	100	27	ug/L			10/08/23 17:38	10
Acetone	37	U J3	100	37	ug/L			10/08/23 17:38	10
Benzene	2.7	U	10	2.7	ug/L			10/08/23 17:38	10
Bromodichloromethane	2.5	U	10	2.5	ug/L			10/08/23 17:38	10
Bromoform	5.9	U	10	5.9	ug/L			10/08/23 17:38	10
Bromomethane	37	U	50	37	ug/L			10/08/23 17:38	10
Carbon disulfide	4.3	U	20	4.3	ug/L			10/08/23 17:38	10
Carbon tetrachloride	3.0	U	10	3.0	ug/L			10/08/23 17:38	10
Chlorobenzene	1.5	U	10	1.5	ug/L			10/08/23 17:38	10
Chloroethane	46	U	50	46	ug/L			10/08/23 17:38	10
Chloroform	2.7	U	10	2.7	ug/L			10/08/23 17:38	10
Chloromethane	5.4	U	10	5.4	ug/L			10/08/23 17:38	10
cis-1,2-Dichloroethene	**500**		10	2.5	ug/L			10/08/23 17:38	10
cis-1,3-Dichloropropene	2.6	U	10	2.6	ug/L			10/08/23 17:38	10
Cyclohexane	2.8	U	10	2.8	ug/L			10/08/23 17:38	10
Dibromochloromethane	3.9	U	10	3.9	ug/L			10/08/23 17:38	10
Dichlorodifluoromethane	3.6	U	10	3.6	ug/L			10/08/23 17:38	10
Ethylbenzene	2.0	U	10	2.0	ug/L			10/08/23 17:38	10
Isopropylbenzene	2.6	U	10	2.6	ug/L			10/08/23 17:38	10
m,p-Xylenes	4.9	U	10	4.9	ug/L			10/08/23 17:38	10
Methyl acetate	32	U	50	32	ug/L			10/08/23 17:38	10
Methyl tert-butyl ether	8.1	U	50	8.1	ug/L			10/08/23 17:38	10
Methylene Chloride	32	U	50	32	ug/L			10/08/23 17:38	10

Client Sample ID: LC34-DPT0954-025.0-20231003
Lab Sample ID: 670-27943-22

Date Collected: 10/03/23 08:50
Matrix: Water
Date Received: 10/04/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	2.6	U	10	2.6	ug/L			10/08/23 17:38	10
Styrene	2.7	U	10	2.7	ug/L			10/08/23 17:38	10
Tetrachloroethene	3.5	U	10	3.5	ug/L			10/08/23 17:38	10
Toluene	2.5	U	10	2.5	ug/L			10/08/23 17:38	10
trans-1,2-Dichloroethene	**3.8**	**I**	10	3.4	ug/L			10/08/23 17:38	10
trans-1,3-Dichloropropene	2.3	U	10	2.3	ug/L			10/08/23 17:38	10
Trichloroethene	2.0	U	10	2.0	ug/L			10/08/23 17:38	10
Trichlorofluoromethane	3.3	U	10	3.3	ug/L			10/08/23 17:38	10
Vinyl chloride	**270**		10	4.0	ug/L			10/08/23 17:38	10
Xylenes, Total	2.3	U	10	2.3	ug/L			10/08/23 17:38	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 124*		*10/08/23 17:38*	*10*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*		*10/08/23 17:38*	*10*
Dibromofluoromethane (Surr)	*111*		*70 - 130*		*10/08/23 17:38*	*10*
Toluene-d8 (Surr)	*90*		*70 - 130*		*10/08/23 17:38*	*10*

Client Sample ID: LC34-DPT0954-034.0-20231003
Lab Sample ID: 670-27943-23

Date Collected: 10/03/23 09:10
Matrix: Water
Date Received: 10/04/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/08/23 14:34	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/08/23 14:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/08/23 14:34	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/08/23 14:34	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/08/23 14:34	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/08/23 14:34	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/08/23 14:34	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/08/23 14:34	1
1,2-Dibromoethane (EDB)	0.33	U	2.0	0.33	ug/L			10/08/23 14:34	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/08/23 14:34	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/08/23 14:34	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/08/23 14:34	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/08/23 14:34	1
1,4-Dichlorobenzene	0.31	U	2.0	0.31	ug/L			10/08/23 14:34	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			10/08/23 14:34	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/08/23 14:34	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/08/23 14:34	1
Acetone	3.7	U J3	10	3.7	ug/L			10/08/23 14:34	1
Benzene	0.27	U	1.0	0.27	ug/L			10/08/23 14:34	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/08/23 14:34	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/08/23 14:34	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/08/23 14:34	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/08/23 14:34	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/08/23 14:34	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/08/23 14:34	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/08/23 14:34	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/08/23 14:34	1

Client Sample ID: LC34-DPT0954-034.0-20231003
Lab Sample ID: 670-27943-23

Date Collected: 10/03/23 09:10
Matrix: Water
Date Received: 10/04/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	0.54	U	1.0	0.54	ug/L			10/08/23 14:34	1
cis-1,2-Dichloroethene	**0.57**	**I**	1.0	0.25	ug/L			10/08/23 14:34	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/08/23 14:34	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/08/23 14:34	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/08/23 14:34	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/08/23 14:34	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/08/23 14:34	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/08/23 14:34	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/08/23 14:34	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/08/23 14:34	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/08/23 14:34	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/08/23 14:34	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/08/23 14:34	1
Styrene	0.27	U	1.0	0.27	ug/L			10/08/23 14:34	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/08/23 14:34	1
Toluene	0.25	U	1.0	0.25	ug/L			10/08/23 14:34	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/08/23 14:34	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/08/23 14:34	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/08/23 14:34	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/08/23 14:34	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/08/23 14:34	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/08/23 14:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 124*		*10/08/23 14:34*	*1*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*		*10/08/23 14:34*	*1*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*10/08/23 14:34*	*1*
Toluene-d8 (Surr)	*94*		*70 - 130*		*10/08/23 14:34*	*1*

Client Sample ID: LC34-DPT0954-038.0-20231003
Lab Sample ID: 670-27943-24

Date Collected: 10/03/23 09:30
Matrix: Water
Date Received: 10/04/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/08/23 14:53	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/08/23 14:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/08/23 14:53	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/08/23 14:53	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/08/23 14:53	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/08/23 14:53	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/08/23 14:53	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/08/23 14:53	1
1,2-Dibromoethane (EDB)	0.33	U	2.0	0.33	ug/L			10/08/23 14:53	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/08/23 14:53	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/08/23 14:53	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/08/23 14:53	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/08/23 14:53	1
1,4-Dichlorobenzene	0.31	U	2.0	0.31	ug/L			10/08/23 14:53	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			10/08/23 14:53	1

Client Sample ID: LC34-DPT0954-038.0-20231003
Lab Sample ID: 670-27943-24

Date Collected: 10/03/23 09:30
Matrix: Water
Date Received: 10/04/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	3.2	U	10	3.2	ug/L			10/08/23 14:53	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/08/23 14:53	1
Acetone	3.7	U J3	10	3.7	ug/L			10/08/23 14:53	1
Benzene	0.27	U	1.0	0.27	ug/L			10/08/23 14:53	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/08/23 14:53	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/08/23 14:53	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/08/23 14:53	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/08/23 14:53	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/08/23 14:53	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/08/23 14:53	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/08/23 14:53	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/08/23 14:53	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/08/23 14:53	1
cis-1,2-Dichloroethene	**0.26**	**I**	1.0	0.25	ug/L			10/08/23 14:53	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/08/23 14:53	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/08/23 14:53	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/08/23 14:53	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/08/23 14:53	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/08/23 14:53	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/08/23 14:53	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/08/23 14:53	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/08/23 14:53	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/08/23 14:53	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/08/23 14:53	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/08/23 14:53	1
Styrene	0.27	U	1.0	0.27	ug/L			10/08/23 14:53	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/08/23 14:53	1
Toluene	0.25	U	1.0	0.25	ug/L			10/08/23 14:53	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/08/23 14:53	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/08/23 14:53	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/08/23 14:53	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/08/23 14:53	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/08/23 14:53	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/08/23 14:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 124*		*10/08/23 14:53*	*1*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*10/08/23 14:53*	*1*
Dibromofluoromethane (Surr)	*111*		*70 - 130*		*10/08/23 14:53*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*10/08/23 14:53*	*1*

Client Sample ID: LC34-DPT0955-008.0-20231003
Lab Sample ID: 670-27943-25

Date Collected: 10/03/23 10:10
Matrix: Water
Date Received: 10/04/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/08/23 15:13	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/08/23 15:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/08/23 15:13	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27943-1

Client Sample ID: LC34-DPT0955-008.0-20231003
Date Collected: 10/03/23 10:10
Date Received: 10/04/23 08:00

Lab Sample ID: 670-27943-25
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/08/23 15:13	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/08/23 15:13	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/08/23 15:13	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/08/23 15:13	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/08/23 15:13	1
1,2-Dibromoethane (EDB)	0.33	U	2.0	0.33	ug/L			10/08/23 15:13	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/08/23 15:13	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/08/23 15:13	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/08/23 15:13	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/08/23 15:13	1
1,4-Dichlorobenzene	0.31	U	2.0	0.31	ug/L			10/08/23 15:13	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			10/08/23 15:13	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/08/23 15:13	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/08/23 15:13	1
Acetone	3.7	U J3	10	3.7	ug/L			10/08/23 15:13	1
Benzene	0.27	U	1.0	0.27	ug/L			10/08/23 15:13	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/08/23 15:13	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/08/23 15:13	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/08/23 15:13	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/08/23 15:13	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/08/23 15:13	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/08/23 15:13	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/08/23 15:13	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/08/23 15:13	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/08/23 15:13	1
cis-1,2-Dichloroethene	**73**		1.0	0.25	ug/L			10/08/23 15:13	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/08/23 15:13	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/08/23 15:13	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/08/23 15:13	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/08/23 15:13	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/08/23 15:13	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/08/23 15:13	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/08/23 15:13	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/08/23 15:13	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/08/23 15:13	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/08/23 15:13	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/08/23 15:13	1
Styrene	0.27	U	1.0	0.27	ug/L			10/08/23 15:13	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/08/23 15:13	1
Toluene	0.25	U	1.0	0.25	ug/L			10/08/23 15:13	1
trans-1,2-Dichloroethene	**1.1**		1.0	0.34	ug/L			10/08/23 15:13	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/08/23 15:13	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/08/23 15:13	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/08/23 15:13	1
Vinyl chloride	**160**		1.0	0.40	ug/L			10/08/23 15:13	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/08/23 15:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 124*		*10/08/23 15:13*	*1*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*10/08/23 15:13*	*1*

Client Sample ID: LC34-DPT0955-008.0-20231003
Lab Sample ID: 670-27943-25

Date Collected: 10/03/23 10:10
Matrix: Water
Date Received: 10/04/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*10/08/23 15:13*	*1*
Toluene-d8 (Surr)	*93*		*70 - 130*		*10/08/23 15:13*	*1*

Client Sample ID: LC34-DPT0955-013.0-20231003
Lab Sample ID: 670-27943-26

Date Collected: 10/03/23 10:25
Matrix: Water
Date Received: 10/04/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	5.0	1.1	ug/L			10/08/23 16:55	5
1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	ug/L			10/08/23 16:55	5
1,1,2-Trichloro-1,2,2-trifluoroethane	1.2	U	5.0	1.2	ug/L			10/08/23 16:55	5
1,1,2-Trichloroethane	1.6	U	5.0	1.6	ug/L			10/08/23 16:55	5
1,1-Dichloroethane	1.7	U	5.0	1.7	ug/L			10/08/23 16:55	5
1,1-Dichloroethene	1.7	U	5.0	1.7	ug/L			10/08/23 16:55	5
1,2,4-Trichlorobenzene	2.7	U	25	2.7	ug/L			10/08/23 16:55	5
1,2-Dibromo-3-Chloropropane	9.0	U	25	9.0	ug/L			10/08/23 16:55	5
1,2-Dibromoethane (EDB)	1.7	U	10	1.7	ug/L			10/08/23 16:55	5
1,2-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/08/23 16:55	5
1,2-Dichloroethane	1.3	U	5.0	1.3	ug/L			10/08/23 16:55	5
1,2-Dichloropropane	1.1	U	5.0	1.1	ug/L			10/08/23 16:55	5
1,3-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/08/23 16:55	5
1,4-Dichlorobenzene	1.6	U	10	1.6	ug/L			10/08/23 16:55	5
2-Butanone (MEK)	32	U J3	50	32	ug/L			10/08/23 16:55	5
2-Hexanone	16	U	50	16	ug/L			10/08/23 16:55	5
4-Methyl-2-pentanone	14	U	50	14	ug/L			10/08/23 16:55	5
Acetone	19	U J3	50	19	ug/L			10/08/23 16:55	5
Benzene	1.4	U	5.0	1.4	ug/L			10/08/23 16:55	5
Bromodichloromethane	1.3	U	5.0	1.3	ug/L			10/08/23 16:55	5
Bromoform	3.0	U	5.0	3.0	ug/L			10/08/23 16:55	5
Bromomethane	19	U	25	19	ug/L			10/08/23 16:55	5
Carbon disulfide	2.2	U	10	2.2	ug/L			10/08/23 16:55	5
Carbon tetrachloride	1.5	U	5.0	1.5	ug/L			10/08/23 16:55	5
Chlorobenzene	0.75	U	5.0	0.75	ug/L			10/08/23 16:55	5
Chloroethane	23	U	25	23	ug/L			10/08/23 16:55	5
Chloroform	1.4	U	5.0	1.4	ug/L			10/08/23 16:55	5
Chloromethane	2.7	U	5.0	2.7	ug/L			10/08/23 16:55	5
cis-1,2-Dichloroethene	**340**		5.0	1.3	ug/L			10/08/23 16:55	5
cis-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			10/08/23 16:55	5
Cyclohexane	1.4	U	5.0	1.4	ug/L			10/08/23 16:55	5
Dibromochloromethane	2.0	U	5.0	2.0	ug/L			10/08/23 16:55	5
Dichlorodifluoromethane	1.8	U	5.0	1.8	ug/L			10/08/23 16:55	5
Ethylbenzene	1.0	U	5.0	1.0	ug/L			10/08/23 16:55	5
Isopropylbenzene	1.3	U	5.0	1.3	ug/L			10/08/23 16:55	5
m,p-Xylenes	2.5	U	5.0	2.5	ug/L			10/08/23 16:55	5
Methyl acetate	16	U	25	16	ug/L			10/08/23 16:55	5
Methyl tert-butyl ether	4.1	U	25	4.1	ug/L			10/08/23 16:55	5
Methylene Chloride	16	U	25	16	ug/L			10/08/23 16:55	5
o-Xylene	1.3	U	5.0	1.3	ug/L			10/08/23 16:55	5

Client Sample ID: LC34-DPT0955-013.0-20231003

Lab Sample ID: 670-27943-26

Date Collected: 10/03/23 10:25

Matrix: Water

Date Received: 10/04/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	1.4	U	5.0	1.4	ug/L			10/08/23 16:55	5
Tetrachloroethene	1.8	U	5.0	1.8	ug/L			10/08/23 16:55	5
Toluene	1.3	U	5.0	1.3	ug/L			10/08/23 16:55	5
trans-1,2-Dichloroethene	**1.7**	**I**	5.0	1.7	ug/L			10/08/23 16:55	5
trans-1,3-Dichloropropene	1.2	U	5.0	1.2	ug/L			10/08/23 16:55	5
Trichloroethene	1.0	U	5.0	1.0	ug/L			10/08/23 16:55	5
Trichlorofluoromethane	1.7	U	5.0	1.7	ug/L			10/08/23 16:55	5
Vinyl chloride	**470**		20	8.0	ug/L			10/09/23 18:35	20
Xylenes, Total	1.2	U	5.0	1.2	ug/L			10/08/23 16:55	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 124*		*10/08/23 16:55*	*5*
1,2-Dichloroethane-d4 (Surr)	*85*		*60 - 124*		*10/09/23 18:35*	*20*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*		*10/08/23 16:55*	*5*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/09/23 18:35*	*20*
Dibromofluoromethane (Surr)	*111*		*70 - 130*		*10/08/23 16:55*	*5*
Dibromofluoromethane (Surr)	*93*		*70 - 130*		*10/09/23 18:35*	*20*
Toluene-d8 (Surr)	*93*		*70 - 130*		*10/08/23 16:55*	*5*
Toluene-d8 (Surr)	*109*		*70 - 130*		*10/09/23 18:35*	*20*

Client Sample ID: LC34-DPT0955-018.0-20231003

Lab Sample ID: 670-27943-27

Date Collected: 10/03/23 10:40

Matrix: Water

Date Received: 10/04/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	11	U	50	11	ug/L			10/08/23 18:20	50
1,1,2,2-Tetrachloroethane	20	U	50	20	ug/L			10/08/23 18:20	50
1,1,2-Trichloro-1,2,2-trifluoroethane	12	U	50	12	ug/L			10/08/23 18:20	50
1,1,2-Trichloroethane	16	U	50	16	ug/L			10/08/23 18:20	50
1,1-Dichloroethane	17	U	50	17	ug/L			10/08/23 18:20	50
1,1-Dichloroethene	17	U	50	17	ug/L			10/08/23 18:20	50
1,2,4-Trichlorobenzene	27	U	250	27	ug/L			10/08/23 18:20	50
1,2-Dibromo-3-Chloropropane	90	U	250	90	ug/L			10/08/23 18:20	50
1,2-Dibromoethane (EDB)	17	U	100	17	ug/L			10/08/23 18:20	50
1,2-Dichlorobenzene	16	U	50	16	ug/L			10/08/23 18:20	50
1,2-Dichloroethane	13	U	50	13	ug/L			10/08/23 18:20	50
1,2-Dichloropropane	11	U	50	11	ug/L			10/08/23 18:20	50
1,3-Dichlorobenzene	16	U	50	16	ug/L			10/08/23 18:20	50
1,4-Dichlorobenzene	16	U	100	16	ug/L			10/08/23 18:20	50
2-Butanone (MEK)	320	U J3	500	320	ug/L			10/08/23 18:20	50
2-Hexanone	160	U	500	160	ug/L			10/08/23 18:20	50
4-Methyl-2-pentanone	140	U	500	140	ug/L			10/08/23 18:20	50
Acetone	190	U J3	500	190	ug/L			10/08/23 18:20	50
Benzene	14	U	50	14	ug/L			10/08/23 18:20	50
Bromodichloromethane	13	U	50	13	ug/L			10/08/23 18:20	50
Bromoform	30	U	50	30	ug/L			10/08/23 18:20	50
Bromomethane	190	U	250	190	ug/L			10/08/23 18:20	50
Carbon disulfide	22	U	100	22	ug/L			10/08/23 18:20	50
Carbon tetrachloride	15	U	50	15	ug/L			10/08/23 18:20	50

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27943-1

Client Sample ID: LC34-DPT0955-018.0-20231003

Lab Sample ID: 670-27943-27

Date Collected: 10/03/23 10:40

Matrix: Water

Date Received: 10/04/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	7.5	U	50	7.5	ug/L			10/08/23 18:20	50
Chloroethane	230	U	250	230	ug/L			10/08/23 18:20	50
Chloroform	14	U	50	14	ug/L			10/08/23 18:20	50
Chloromethane	27	U	50	27	ug/L			10/08/23 18:20	50
cis-1,2-Dichloroethene	**2300**		50	13	ug/L			10/08/23 18:20	50
cis-1,3-Dichloropropene	13	U	50	13	ug/L			10/08/23 18:20	50
Cyclohexane	14	U	50	14	ug/L			10/08/23 18:20	50
Dibromochloromethane	20	U	50	20	ug/L			10/08/23 18:20	50
Dichlorodifluoromethane	18	U	50	18	ug/L			10/08/23 18:20	50
Ethylbenzene	10	U	50	10	ug/L			10/08/23 18:20	50
Isopropylbenzene	13	U	50	13	ug/L			10/08/23 18:20	50
m,p-Xylenes	25	U	50	25	ug/L			10/08/23 18:20	50
Methyl acetate	160	U	250	160	ug/L			10/08/23 18:20	50
Methyl tert-butyl ether	41	U	250	41	ug/L			10/08/23 18:20	50
Methylene Chloride	160	U	250	160	ug/L			10/08/23 18:20	50
o-Xylene	13	U	50	13	ug/L			10/08/23 18:20	50
Styrene	14	U	50	14	ug/L			10/08/23 18:20	50
Tetrachloroethene	18	U	50	18	ug/L			10/08/23 18:20	50
Toluene	13	U	50	13	ug/L			10/08/23 18:20	50
trans-1,2-Dichloroethene	**59**		50	17	ug/L			10/08/23 18:20	50
trans-1,3-Dichloropropene	12	U	50	12	ug/L			10/08/23 18:20	50
Trichloroethene	10	U	50	10	ug/L			10/08/23 18:20	50
Trichlorofluoromethane	17	U	50	17	ug/L			10/08/23 18:20	50
Vinyl chloride	**1900**		50	20	ug/L			10/08/23 18:20	50
Xylenes, Total	12	U	50	12	ug/L			10/08/23 18:20	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 124*		*10/08/23 18:20*	*50*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*		*10/08/23 18:20*	*50*
Dibromofluoromethane (Surr)	*110*		*70 - 130*		*10/08/23 18:20*	*50*
Toluene-d8 (Surr)	*93*		*70 - 130*		*10/08/23 18:20*	*50*

Client Sample ID: LC34-DPT0955-025.0-20231003

Lab Sample ID: 670-27943-28

Date Collected: 10/03/23 11:00

Matrix: Water

Date Received: 10/04/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	110	U	500	110	ug/L			10/08/23 20:03	500
1,1,2,2-Tetrachloroethane	200	U	500	200	ug/L			10/08/23 20:03	500
1,1,2-Trichloro-1,2,2-trifluoroethane	120	U	500	120	ug/L			10/08/23 20:03	500
1,1,2-Trichloroethane	160	U	500	160	ug/L			10/08/23 20:03	500
1,1-Dichloroethane	170	U	500	170	ug/L			10/08/23 20:03	500
1,1-Dichloroethene	170	U	500	170	ug/L			10/08/23 20:03	500
1,2,4-Trichlorobenzene	270	U	2500	270	ug/L			10/08/23 20:03	500
1,2-Dibromo-3-Chloropropane	900	U	2500	900	ug/L			10/08/23 20:03	500
1,2-Dibromoethane (EDB)	170	U	1000	170	ug/L			10/08/23 20:03	500
1,2-Dichlorobenzene	160	U	500	160	ug/L			10/08/23 20:03	500
1,2-Dichloroethane	130	U	500	130	ug/L			10/08/23 20:03	500
1,2-Dichloropropane	110	U	500	110	ug/L			10/08/23 20:03	500

Client Sample ID: LC34-DPT0955-025.0-20231003
Lab Sample ID: 670-27943-28
Date Collected: 10/03/23 11:00
Matrix: Water
Date Received: 10/04/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	160	U	500	160	ug/L			10/08/23 20:03	500
1,4-Dichlorobenzene	160	U	1000	160	ug/L			10/08/23 20:03	500
2-Butanone (MEK)	3200	U	5000	3200	ug/L			10/08/23 20:03	500
2-Hexanone	1600	U	5000	1600	ug/L			10/08/23 20:03	500
4-Methyl-2-pentanone	1400	U J3	5000	1400	ug/L			10/08/23 20:03	500
Acetone	1900	U	5000	1900	ug/L			10/08/23 20:03	500
Benzene	140	U	500	140	ug/L			10/08/23 20:03	500
Bromodichloromethane	130	U	500	130	ug/L			10/08/23 20:03	500
Bromoform	300	U	500	300	ug/L			10/08/23 20:03	500
Bromomethane	1900	U	2500	1900	ug/L			10/08/23 20:03	500
Carbon disulfide	220	U	1000	220	ug/L			10/08/23 20:03	500
Carbon tetrachloride	150	U	500	150	ug/L			10/08/23 20:03	500
Chlorobenzene	75	U	500	75	ug/L			10/08/23 20:03	500
Chloroethane	2300	U J3	2500	2300	ug/L			10/08/23 20:03	500
Chloroform	140	U	500	140	ug/L			10/08/23 20:03	500
Chloromethane	270	U	500	270	ug/L			10/08/23 20:03	500
cis-1,2-Dichloroethene	**23000**		500	130	ug/L			10/08/23 20:03	500
cis-1,3-Dichloropropene	130	U	500	130	ug/L			10/08/23 20:03	500
Cyclohexane	140	U	500	140	ug/L			10/08/23 20:03	500
Dibromochloromethane	200	U	500	200	ug/L			10/08/23 20:03	500
Dichlorodifluoromethane	180	U	500	180	ug/L			10/08/23 20:03	500
Ethylbenzene	100	U	500	100	ug/L			10/08/23 20:03	500
Isopropylbenzene	130	U	500	130	ug/L			10/08/23 20:03	500
m,p-Xylenes	250	U	500	250	ug/L			10/08/23 20:03	500
Methyl acetate	1600	U	2500	1600	ug/L			10/08/23 20:03	500
Methyl tert-butyl ether	410	U	2500	410	ug/L			10/08/23 20:03	500
Methylene Chloride	1600	U	2500	1600	ug/L			10/08/23 20:03	500
o-Xylene	130	U	500	130	ug/L			10/08/23 20:03	500
Styrene	140	U	500	140	ug/L			10/08/23 20:03	500
Tetrachloroethene	180	U	500	180	ug/L			10/08/23 20:03	500
Toluene	130	U	500	130	ug/L			10/08/23 20:03	500
trans-1,2-Dichloroethene	**440**	**I**	500	170	ug/L			10/08/23 20:03	500
trans-1,3-Dichloropropene	120	U	500	120	ug/L			10/08/23 20:03	500
Trichloroethene	100	U	500	100	ug/L			10/08/23 20:03	500
Trichlorofluoromethane	170	U	500	170	ug/L			10/08/23 20:03	500
Vinyl chloride	**8000**		500	200	ug/L			10/08/23 20:03	500
Xylenes, Total	120	U	500	120	ug/L			10/08/23 20:03	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*60 - 124*		*10/08/23 20:03*	*500*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/08/23 20:03*	*500*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*10/08/23 20:03*	*500*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/08/23 20:03*	*500*

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27943-1

Client Sample ID: LC34-DPT0955-034.0-20231003
Date Collected: 10/03/23 11:20
Date Received: 10/04/23 08:00

Lab Sample ID: 670-27943-29
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	53	U	250	53	ug/L			10/08/23 19:00	250
1,1,2,2-Tetrachloroethane	100	U	250	100	ug/L			10/08/23 19:00	250
1,1,2-Trichloro-1,2,2-trifluoroethane	58	U	250	58	ug/L			10/08/23 19:00	250
1,1,2-Trichloroethane	80	U	250	80	ug/L			10/08/23 19:00	250
1,1-Dichloroethane	83	U	250	83	ug/L			10/08/23 19:00	250
1,1-Dichloroethene	83	U	250	83	ug/L			10/08/23 19:00	250
1,2,4-Trichlorobenzene	130	U	1300	130	ug/L			10/08/23 19:00	250
1,2-Dibromo-3-Chloropropane	450	U	1300	450	ug/L			10/08/23 19:00	250
1,2-Dibromoethane (EDB)	83	U	500	83	ug/L			10/08/23 19:00	250
1,2-Dichlorobenzene	78	U	250	78	ug/L			10/08/23 19:00	250
1,2-Dichloroethane	63	U	250	63	ug/L			10/08/23 19:00	250
1,2-Dichloropropane	55	U	250	55	ug/L			10/08/23 19:00	250
1,3-Dichlorobenzene	78	U	250	78	ug/L			10/08/23 19:00	250
1,4-Dichlorobenzene	78	U	500	78	ug/L			10/08/23 19:00	250
2-Butanone (MEK)	1600	U J3	2500	1600	ug/L			10/08/23 19:00	250
2-Hexanone	800	U	2500	800	ug/L			10/08/23 19:00	250
4-Methyl-2-pentanone	680	U	2500	680	ug/L			10/08/23 19:00	250
Acetone	930	U J3	2500	930	ug/L			10/08/23 19:00	250
Benzene	68	U	250	68	ug/L			10/08/23 19:00	250
Bromodichloromethane	63	U	250	63	ug/L			10/08/23 19:00	250
Bromoform	150	U	250	150	ug/L			10/08/23 19:00	250
Bromomethane	930	U	1300	930	ug/L			10/08/23 19:00	250
Carbon disulfide	110	U	500	110	ug/L			10/08/23 19:00	250
Carbon tetrachloride	75	U	250	75	ug/L			10/08/23 19:00	250
Chlorobenzene	38	U	250	38	ug/L			10/08/23 19:00	250
Chloroethane	1200	U	1300	1200	ug/L			10/08/23 19:00	250
Chloroform	68	U	250	68	ug/L			10/08/23 19:00	250
Chloromethane	140	U	250	140	ug/L			10/08/23 19:00	250
cis-1,2-Dichloroethene	**8600**		250	63	ug/L			10/08/23 19:00	250
cis-1,3-Dichloropropene	65	U	250	65	ug/L			10/08/23 19:00	250
Cyclohexane	70	U	250	70	ug/L			10/08/23 19:00	250
Dibromochloromethane	98	U	250	98	ug/L			10/08/23 19:00	250
Dichlorodifluoromethane	90	U	250	90	ug/L			10/08/23 19:00	250
Ethylbenzene	50	U	250	50	ug/L			10/08/23 19:00	250
Isopropylbenzene	65	U	250	65	ug/L			10/08/23 19:00	250
m,p-Xylenes	120	U	250	120	ug/L			10/08/23 19:00	250
Methyl acetate	800	U	1300	800	ug/L			10/08/23 19:00	250
Methyl tert-butyl ether	200	U	1300	200	ug/L			10/08/23 19:00	250
Methylene Chloride	800	U	1300	800	ug/L			10/08/23 19:00	250
o-Xylene	65	U	250	65	ug/L			10/08/23 19:00	250
Styrene	68	U	250	68	ug/L			10/08/23 19:00	250
Tetrachloroethene	88	U	250	88	ug/L			10/08/23 19:00	250
Toluene	63	U	250	63	ug/L			10/08/23 19:00	250
trans-1,2-Dichloroethene	**97**	**I**	250	85	ug/L			10/08/23 19:00	250
trans-1,3-Dichloropropene	58	U	250	58	ug/L			10/08/23 19:00	250
Trichloroethene	50	U	250	50	ug/L			10/08/23 19:00	250
Trichlorofluoromethane	83	U	250	83	ug/L			10/08/23 19:00	250
Vinyl chloride	**3100**		250	100	ug/L			10/08/23 19:00	250
Xylenes, Total	58	U	250	58	ug/L			10/08/23 19:00	250

Client Sample ID: LC34-DPT0955-034.0-20231003

Lab Sample ID: 670-27943-29

Date Collected: 10/03/23 11:20

Matrix: Water

Date Received: 10/04/23 08:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		60 - 124		10/08/23 19:00	250
4-Bromofluorobenzene (Surr)	91		70 - 130		10/08/23 19:00	250
Dibromofluoromethane (Surr)	111		70 - 130		10/08/23 19:00	250
Toluene-d8 (Surr)	98		70 - 130		10/08/23 19:00	250

Client Sample ID: LC34-DPT0955-038.0-20231003

Lab Sample ID: 670-27943-30

Date Collected: 10/03/23 11:40

Matrix: Water

Date Received: 10/04/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/08/23 15:32	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/08/23 15:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/08/23 15:32	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/08/23 15:32	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/08/23 15:32	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/08/23 15:32	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/08/23 15:32	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/08/23 15:32	1
1,2-Dibromoethane (EDB)	0.33	U	2.0	0.33	ug/L			10/08/23 15:32	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/08/23 15:32	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/08/23 15:32	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/08/23 15:32	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/08/23 15:32	1
1,4-Dichlorobenzene	0.31	U	2.0	0.31	ug/L			10/08/23 15:32	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			10/08/23 15:32	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/08/23 15:32	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/08/23 15:32	1
Acetone	3.7	U J3	10	3.7	ug/L			10/08/23 15:32	1
Benzene	0.27	U	1.0	0.27	ug/L			10/08/23 15:32	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/08/23 15:32	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/08/23 15:32	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/08/23 15:32	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/08/23 15:32	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/08/23 15:32	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/08/23 15:32	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/08/23 15:32	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/08/23 15:32	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/08/23 15:32	1
cis-1,2-Dichloroethene	**3.4**		1.0	0.25	ug/L			10/08/23 15:32	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/08/23 15:32	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/08/23 15:32	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/08/23 15:32	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/08/23 15:32	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/08/23 15:32	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/08/23 15:32	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/08/23 15:32	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/08/23 15:32	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/08/23 15:32	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/08/23 15:32	1

Client: Tetra Tech, Inc.
Job ID: 670-27943-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT0955-038.0-20231003
Lab Sample ID: 670-27943-30
Date Collected: 10/03/23 11:40
Matrix: Water
Date Received: 10/04/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	0.26	U	1.0	0.26	ug/L			10/08/23 15:32	1
Styrene	0.27	U	1.0	0.27	ug/L			10/08/23 15:32	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/08/23 15:32	1
Toluene	0.25	U	1.0	0.25	ug/L			10/08/23 15:32	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/08/23 15:32	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/08/23 15:32	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/08/23 15:32	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/08/23 15:32	1
Vinyl chloride	**1.0**		1.0	0.40	ug/L			10/08/23 15:32	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/08/23 15:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 124*		*10/08/23 15:32*	*1*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*		*10/08/23 15:32*	*1*
Dibromofluoromethane (Surr)	*111*		*70 - 130*		*10/08/23 15:32*	*1*
Toluene-d8 (Surr)	*94*		*70 - 130*		*10/08/23 15:32*	*1*

Client Sample ID: LC34-DPT0956-008.0-20231003
Lab Sample ID: 670-27943-31
Date Collected: 10/03/23 12:20
Matrix: Water
Date Received: 10/04/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.42	U	2.0	0.42	ug/L			10/08/23 16:13	2
1,1,2,2-Tetrachloroethane	0.80	U	2.0	0.80	ug/L			10/08/23 16:13	2
1,1,2-Trichloro-1,2,2-trifluoroethane	0.46	U	2.0	0.46	ug/L			10/08/23 16:13	2
1,1,2-Trichloroethane	0.64	U	2.0	0.64	ug/L			10/08/23 16:13	2
1,1-Dichloroethane	0.66	U	2.0	0.66	ug/L			10/08/23 16:13	2
1,1-Dichloroethene	0.66	U	2.0	0.66	ug/L			10/08/23 16:13	2
1,2,4-Trichlorobenzene	1.1	U	10	1.1	ug/L			10/08/23 16:13	2
1,2-Dibromo-3-Chloropropane	3.6	U	10	3.6	ug/L			10/08/23 16:13	2
1,2-Dibromoethane (EDB)	0.66	U	4.0	0.66	ug/L			10/08/23 16:13	2
1,2-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/08/23 16:13	2
1,2-Dichloroethane	0.50	U	2.0	0.50	ug/L			10/08/23 16:13	2
1,2-Dichloropropane	0.44	U	2.0	0.44	ug/L			10/08/23 16:13	2
1,3-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/08/23 16:13	2
1,4-Dichlorobenzene	0.62	U	4.0	0.62	ug/L			10/08/23 16:13	2
2-Butanone (MEK)	13	U J3	20	13	ug/L			10/08/23 16:13	2
2-Hexanone	6.4	U	20	6.4	ug/L			10/08/23 16:13	2
4-Methyl-2-pentanone	5.4	U	20	5.4	ug/L			10/08/23 16:13	2
Acetone	7.4	U J3	20	7.4	ug/L			10/08/23 16:13	2
Benzene	0.54	U	2.0	0.54	ug/L			10/08/23 16:13	2
Bromodichloromethane	0.50	U	2.0	0.50	ug/L			10/08/23 16:13	2
Bromoform	1.2	U	2.0	1.2	ug/L			10/08/23 16:13	2
Bromomethane	7.4	U	10	7.4	ug/L			10/08/23 16:13	2
Carbon disulfide	0.86	U	4.0	0.86	ug/L			10/08/23 16:13	2
Carbon tetrachloride	0.60	U	2.0	0.60	ug/L			10/08/23 16:13	2
Chlorobenzene	0.30	U	2.0	0.30	ug/L			10/08/23 16:13	2
Chloroethane	9.2	U	10	9.2	ug/L			10/08/23 16:13	2
Chloroform	0.54	U	2.0	0.54	ug/L			10/08/23 16:13	2

Client Sample ID: LC34-DPT0956-008.0-20231003
Lab Sample ID: 670-27943-31

Date Collected: 10/03/23 12:20
Matrix: Water
Date Received: 10/04/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	1.1	U	2.0	1.1	ug/L			10/08/23 16:13	2
cis-1,2-Dichloroethene	**72**		2.0	0.50	ug/L			10/08/23 16:13	2
cis-1,3-Dichloropropene	0.52	U	2.0	0.52	ug/L			10/08/23 16:13	2
Cyclohexane	0.56	U	2.0	0.56	ug/L			10/08/23 16:13	2
Dibromochloromethane	0.78	U	2.0	0.78	ug/L			10/08/23 16:13	2
Dichlorodifluoromethane	0.72	U	2.0	0.72	ug/L			10/08/23 16:13	2
Ethylbenzene	0.40	U	2.0	0.40	ug/L			10/08/23 16:13	2
Isopropylbenzene	0.52	U	2.0	0.52	ug/L			10/08/23 16:13	2
m,p-Xylenes	0.98	U	2.0	0.98	ug/L			10/08/23 16:13	2
Methyl acetate	6.4	U	10	6.4	ug/L			10/08/23 16:13	2
Methyl tert-butyl ether	1.6	U	10	1.6	ug/L			10/08/23 16:13	2
Methylene Chloride	6.4	U	10	6.4	ug/L			10/08/23 16:13	2
o-Xylene	0.52	U	2.0	0.52	ug/L			10/08/23 16:13	2
Styrene	0.54	U	2.0	0.54	ug/L			10/08/23 16:13	2
Tetrachloroethene	0.70	U	2.0	0.70	ug/L			10/08/23 16:13	2
Toluene	0.50	U	2.0	0.50	ug/L			10/08/23 16:13	2
trans-1,2-Dichloroethene	**1.9**	**I**	2.0	0.68	ug/L			10/08/23 16:13	2
trans-1,3-Dichloropropene	0.46	U	2.0	0.46	ug/L			10/08/23 16:13	2
Trichloroethene	0.40	U	2.0	0.40	ug/L			10/08/23 16:13	2
Trichlorofluoromethane	0.66	U	2.0	0.66	ug/L			10/08/23 16:13	2
Vinyl chloride	**29**		2.0	0.80	ug/L			10/08/23 16:13	2
Xylenes, Total	0.46	U	2.0	0.46	ug/L			10/08/23 16:13	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 124*		*10/08/23 16:13*	*2*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*10/08/23 16:13*	*2*
Dibromofluoromethane (Surr)	*112*		*70 - 130*		*10/08/23 16:13*	*2*
Toluene-d8 (Surr)	*93*		*70 - 130*		*10/08/23 16:13*	*2*

Client Sample ID: LC34-DPT0956-013.0-20231003
Lab Sample ID: 670-27943-32

Date Collected: 10/03/23 12:35
Matrix: Water
Date Received: 10/04/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.42	U	2.0	0.42	ug/L			10/08/23 16:34	2
1,1,2,2-Tetrachloroethane	0.80	U	2.0	0.80	ug/L			10/08/23 16:34	2
1,1,2-Trichloro-1,2,2-trifluoroethane	0.46	U	2.0	0.46	ug/L			10/08/23 16:34	2
1,1,2-Trichloroethane	0.64	U	2.0	0.64	ug/L			10/08/23 16:34	2
1,1-Dichloroethane	0.66	U	2.0	0.66	ug/L			10/08/23 16:34	2
1,1-Dichloroethene	0.66	U	2.0	0.66	ug/L			10/08/23 16:34	2
1,2,4-Trichlorobenzene	1.1	U	10	1.1	ug/L			10/08/23 16:34	2
1,2-Dibromo-3-Chloropropane	3.6	U	10	3.6	ug/L			10/08/23 16:34	2
1,2-Dibromoethane (EDB)	0.66	U	4.0	0.66	ug/L			10/08/23 16:34	2
1,2-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/08/23 16:34	2
1,2-Dichloroethane	0.50	U	2.0	0.50	ug/L			10/08/23 16:34	2
1,2-Dichloropropane	0.44	U	2.0	0.44	ug/L			10/08/23 16:34	2
1,3-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/08/23 16:34	2
1,4-Dichlorobenzene	0.62	U	4.0	0.62	ug/L			10/08/23 16:34	2
2-Butanone (MEK)	13	U J3	20	13	ug/L			10/08/23 16:34	2

Client Sample ID: LC34-DPT0956-013.0-20231003
Lab Sample ID: 670-27943-32

Date Collected: 10/03/23 12:35
Matrix: Water
Date Received: 10/04/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	6.4	U	20	6.4	ug/L			10/08/23 16:34	2
4-Methyl-2-pentanone	5.4	U	20	5.4	ug/L			10/08/23 16:34	2
Acetone	7.4	U J3	20	7.4	ug/L			10/08/23 16:34	2
Benzene	0.54	U	2.0	0.54	ug/L			10/08/23 16:34	2
Bromodichloromethane	0.50	U	2.0	0.50	ug/L			10/08/23 16:34	2
Bromoform	1.2	U	2.0	1.2	ug/L			10/08/23 16:34	2
Bromomethane	7.4	U	10	7.4	ug/L			10/08/23 16:34	2
Carbon disulfide	0.86	U	4.0	0.86	ug/L			10/08/23 16:34	2
Carbon tetrachloride	0.60	U	2.0	0.60	ug/L			10/08/23 16:34	2
Chlorobenzene	0.30	U	2.0	0.30	ug/L			10/08/23 16:34	2
Chloroethane	9.2	U	10	9.2	ug/L			10/08/23 16:34	2
Chloroform	0.54	U	2.0	0.54	ug/L			10/08/23 16:34	2
Chloromethane	1.1	U	2.0	1.1	ug/L			10/08/23 16:34	2
cis-1,2-Dichloroethene	**210**		2.0	0.50	ug/L			10/08/23 16:34	2
cis-1,3-Dichloropropene	0.52	U	2.0	0.52	ug/L			10/08/23 16:34	2
Cyclohexane	0.56	U	2.0	0.56	ug/L			10/08/23 16:34	2
Dibromochloromethane	0.78	U	2.0	0.78	ug/L			10/08/23 16:34	2
Dichlorodifluoromethane	0.72	U	2.0	0.72	ug/L			10/08/23 16:34	2
Ethylbenzene	0.40	U	2.0	0.40	ug/L			10/08/23 16:34	2
Isopropylbenzene	0.52	U	2.0	0.52	ug/L			10/08/23 16:34	2
m,p-Xylenes	0.98	U	2.0	0.98	ug/L			10/08/23 16:34	2
Methyl acetate	6.4	U	10	6.4	ug/L			10/08/23 16:34	2
Methyl tert-butyl ether	1.6	U	10	1.6	ug/L			10/08/23 16:34	2
Methylene Chloride	6.4	U	10	6.4	ug/L			10/08/23 16:34	2
o-Xylene	0.52	U	2.0	0.52	ug/L			10/08/23 16:34	2
Styrene	0.54	U	2.0	0.54	ug/L			10/08/23 16:34	2
Tetrachloroethene	0.70	U	2.0	0.70	ug/L			10/08/23 16:34	2
Toluene	0.50	U	2.0	0.50	ug/L			10/08/23 16:34	2
trans-1,2-Dichloroethene	**2.5**		2.0	0.68	ug/L			10/08/23 16:34	2
trans-1,3-Dichloropropene	0.46	U	2.0	0.46	ug/L			10/08/23 16:34	2
Trichloroethene	0.40	U	2.0	0.40	ug/L			10/08/23 16:34	2
Trichlorofluoromethane	0.66	U	2.0	0.66	ug/L			10/08/23 16:34	2
Vinyl chloride	**250**		2.0	0.80	ug/L			10/08/23 16:34	2
Xylenes, Total	0.46	U	2.0	0.46	ug/L			10/08/23 16:34	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 124*		*10/08/23 16:34*	*2*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*10/08/23 16:34*	*2*
Dibromofluoromethane (Surr)	*111*		*70 - 130*		*10/08/23 16:34*	*2*
Toluene-d8 (Surr)	*92*		*70 - 130*		*10/08/23 16:34*	*2*

Client Sample ID: LC34-DPT0956-018.0-20231003
Lab Sample ID: 670-27943-33

Date Collected: 10/03/23 12:50
Matrix: Water
Date Received: 10/04/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.3	U	25	5.3	ug/L			10/08/23 19:03	25
1,1,2,2-Tetrachloroethane	10	U	25	10	ug/L			10/08/23 19:03	25
1,1,2-Trichloro-1,2,2-trifluoroethane	5.8	U	25	5.8	ug/L			10/08/23 19:03	25

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27943-1

Client Sample ID: LC34-DPT0956-018.0-20231003
Date Collected: 10/03/23 12:50
Date Received: 10/04/23 08:00

Lab Sample ID: 670-27943-33
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	8.0	U	25	8.0	ug/L			10/08/23 19:03	25
1,1-Dichloroethane	8.3	U	25	8.3	ug/L			10/08/23 19:03	25
1,1-Dichloroethene	8.3	U	25	8.3	ug/L			10/08/23 19:03	25
1,2,4-Trichlorobenzene	13	U	130	13	ug/L			10/08/23 19:03	25
1,2-Dibromo-3-Chloropropane	45	U	130	45	ug/L			10/08/23 19:03	25
1,2-Dibromoethane (EDB)	8.3	U	50	8.3	ug/L			10/08/23 19:03	25
1,2-Dichlorobenzene	7.8	U	25	7.8	ug/L			10/08/23 19:03	25
1,2-Dichloroethane	6.3	U	25	6.3	ug/L			10/08/23 19:03	25
1,2-Dichloropropane	5.5	U	25	5.5	ug/L			10/08/23 19:03	25
1,3-Dichlorobenzene	7.8	U	25	7.8	ug/L			10/08/23 19:03	25
1,4-Dichlorobenzene	7.8	U	50	7.8	ug/L			10/08/23 19:03	25
2-Butanone (MEK)	160	U	250	160	ug/L			10/08/23 19:03	25
2-Hexanone	80	U	250	80	ug/L			10/08/23 19:03	25
4-Methyl-2-pentanone	68	U J3	250	68	ug/L			10/08/23 19:03	25
Acetone	93	U	250	93	ug/L			10/08/23 19:03	25
Benzene	6.8	U	25	6.8	ug/L			10/08/23 19:03	25
Bromodichloromethane	6.3	U	25	6.3	ug/L			10/08/23 19:03	25
Bromoform	15	U	25	15	ug/L			10/08/23 19:03	25
Bromomethane	93	U	130	93	ug/L			10/08/23 19:03	25
Carbon disulfide	11	U	50	11	ug/L			10/08/23 19:03	25
Carbon tetrachloride	7.5	U	25	7.5	ug/L			10/08/23 19:03	25
Chlorobenzene	3.8	U	25	3.8	ug/L			10/08/23 19:03	25
Chloroethane	120	U J3	130	120	ug/L			10/08/23 19:03	25
Chloroform	6.8	U	25	6.8	ug/L			10/08/23 19:03	25
Chloromethane	14	U	25	14	ug/L			10/08/23 19:03	25
cis-1,2-Dichloroethene	**780**		25	6.3	ug/L			10/08/23 19:03	25
cis-1,3-Dichloropropene	6.5	U	25	6.5	ug/L			10/08/23 19:03	25
Cyclohexane	7.0	U	25	7.0	ug/L			10/08/23 19:03	25
Dibromochloromethane	9.8	U	25	9.8	ug/L			10/08/23 19:03	25
Dichlorodifluoromethane	9.0	U	25	9.0	ug/L			10/08/23 19:03	25
Ethylbenzene	5.0	U	25	5.0	ug/L			10/08/23 19:03	25
Isopropylbenzene	6.5	U	25	6.5	ug/L			10/08/23 19:03	25
m,p-Xylenes	12	U	25	12	ug/L			10/08/23 19:03	25
Methyl acetate	80	U	130	80	ug/L			10/08/23 19:03	25
Methyl tert-butyl ether	20	U	130	20	ug/L			10/08/23 19:03	25
Methylene Chloride	80	U	130	80	ug/L			10/08/23 19:03	25
o-Xylene	6.5	U	25	6.5	ug/L			10/08/23 19:03	25
Styrene	6.8	U	25	6.8	ug/L			10/08/23 19:03	25
Tetrachloroethene	8.8	U	25	8.8	ug/L			10/08/23 19:03	25
Toluene	6.3	U	25	6.3	ug/L			10/08/23 19:03	25
trans-1,2-Dichloroethene	**12**	**I**	25	8.5	ug/L			10/08/23 19:03	25
trans-1,3-Dichloropropene	5.8	U	25	5.8	ug/L			10/08/23 19:03	25
Trichloroethene	5.0	U	25	5.0	ug/L			10/08/23 19:03	25
Trichlorofluoromethane	8.3	U	25	8.3	ug/L			10/08/23 19:03	25
Vinyl chloride	**320**		25	10	ug/L			10/08/23 19:03	25
Xylenes, Total	5.8	U	25	5.8	ug/L			10/08/23 19:03	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*60 - 124*		*10/08/23 19:03*	*25*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/08/23 19:03*	*25*

Client Sample ID: LC34-DPT0956-018.0-20231003
Lab Sample ID: 670-27943-33

Date Collected: 10/03/23 12:50
Matrix: Water
Date Received: 10/04/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*10/08/23 19:03*	*25*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/08/23 19:03*	*25*

Client Sample ID: LC34-DPT0956-025.0-20231003
Lab Sample ID: 670-27943-34

Date Collected: 10/03/23 13:10
Matrix: Water
Date Received: 10/04/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	21	U	100	21	ug/L			10/08/23 19:44	100
1,1,2,2-Tetrachloroethane	40	U	100	40	ug/L			10/08/23 19:44	100
1,1,2-Trichloro-1,2,2-trifluoroethane	23	U	100	23	ug/L			10/08/23 19:44	100
1,1,2-Trichloroethane	32	U	100	32	ug/L			10/08/23 19:44	100
1,1-Dichloroethane	33	U	100	33	ug/L			10/08/23 19:44	100
1,1-Dichloroethene	33	U	100	33	ug/L			10/08/23 19:44	100
1,2,4-Trichlorobenzene	53	U	500	53	ug/L			10/08/23 19:44	100
1,2-Dibromo-3-Chloropropane	180	U	500	180	ug/L			10/08/23 19:44	100
1,2-Dibromoethane (EDB)	33	U	200	33	ug/L			10/08/23 19:44	100
1,2-Dichlorobenzene	31	U	100	31	ug/L			10/08/23 19:44	100
1,2-Dichloroethane	25	U	100	25	ug/L			10/08/23 19:44	100
1,2-Dichloropropane	22	U	100	22	ug/L			10/08/23 19:44	100
1,3-Dichlorobenzene	31	U	100	31	ug/L			10/08/23 19:44	100
1,4-Dichlorobenzene	31	U	200	31	ug/L			10/08/23 19:44	100
2-Butanone (MEK)	640	U	1000	640	ug/L			10/08/23 19:44	100
2-Hexanone	320	U	1000	320	ug/L			10/08/23 19:44	100
4-Methyl-2-pentanone	270	U J3	1000	270	ug/L			10/08/23 19:44	100
Acetone	370	U	1000	370	ug/L			10/08/23 19:44	100
Benzene	27	U	100	27	ug/L			10/08/23 19:44	100
Bromodichloromethane	25	U	100	25	ug/L			10/08/23 19:44	100
Bromoform	59	U	100	59	ug/L			10/08/23 19:44	100
Bromomethane	370	U	500	370	ug/L			10/08/23 19:44	100
Carbon disulfide	43	U	200	43	ug/L			10/08/23 19:44	100
Carbon tetrachloride	30	U	100	30	ug/L			10/08/23 19:44	100
Chlorobenzene	15	U	100	15	ug/L			10/08/23 19:44	100
Chloroethane	460	U J3	500	460	ug/L			10/08/23 19:44	100
Chloroform	27	U	100	27	ug/L			10/08/23 19:44	100
Chloromethane	54	U	100	54	ug/L			10/08/23 19:44	100
cis-1,2-Dichloroethene	**3500**		100	25	ug/L			10/08/23 19:44	100
cis-1,3-Dichloropropene	26	U	100	26	ug/L			10/08/23 19:44	100
Cyclohexane	28	U	100	28	ug/L			10/08/23 19:44	100
Dibromochloromethane	39	U	100	39	ug/L			10/08/23 19:44	100
Dichlorodifluoromethane	36	U	100	36	ug/L			10/08/23 19:44	100
Ethylbenzene	20	U	100	20	ug/L			10/08/23 19:44	100
Isopropylbenzene	26	U	100	26	ug/L			10/08/23 19:44	100
m,p-Xylenes	49	U	100	49	ug/L			10/08/23 19:44	100
Methyl acetate	320	U	500	320	ug/L			10/08/23 19:44	100
Methyl tert-butyl ether	81	U	500	81	ug/L			10/08/23 19:44	100
Methylene Chloride	320	U	500	320	ug/L			10/08/23 19:44	100
o-Xylene	26	U	100	26	ug/L			10/08/23 19:44	100

Client Sample ID: LC34-DPT0956-025.0-20231003

Lab Sample ID: 670-27943-34

Date Collected: 10/03/23 13:10

Matrix: Water

Date Received: 10/04/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	27	U	100	27	ug/L			10/08/23 19:44	100
Tetrachloroethene	35	U	100	35	ug/L			10/08/23 19:44	100
Toluene	25	U	100	25	ug/L			10/08/23 19:44	100
trans-1,2-Dichloroethene	**71**	**I**	100	34	ug/L			10/08/23 19:44	100
trans-1,3-Dichloropropene	23	U	100	23	ug/L			10/08/23 19:44	100
Trichloroethene	20	U	100	20	ug/L			10/08/23 19:44	100
Trichlorofluoromethane	33	U	100	33	ug/L			10/08/23 19:44	100
Vinyl chloride	**1300**		100	40	ug/L			10/08/23 19:44	100
Xylenes, Total	23	U	100	23	ug/L			10/08/23 19:44	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*60 - 124*		*10/08/23 19:44*	*100*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*10/08/23 19:44*	*100*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*10/08/23 19:44*	*100*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/08/23 19:44*	*100*

Client Sample ID: LC34-DPT0956-034.0-20231003

Lab Sample ID: 670-27943-35

Date Collected: 10/03/23 13:30

Matrix: Water

Date Received: 10/04/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2.1	U	10	2.1	ug/L			10/08/23 18:20	10
1,1,2,2-Tetrachloroethane	4.0	U	10	4.0	ug/L			10/08/23 18:20	10
1,1,2-Trichloro-1,2,2-trifluoroethane	2.3	U	10	2.3	ug/L			10/08/23 18:20	10
1,1,2-Trichloroethane	3.2	U	10	3.2	ug/L			10/08/23 18:20	10
1,1-Dichloroethane	3.3	U	10	3.3	ug/L			10/08/23 18:20	10
1,1-Dichloroethene	3.3	U	10	3.3	ug/L			10/08/23 18:20	10
1,2,4-Trichlorobenzene	5.3	U	50	5.3	ug/L			10/08/23 18:20	10
1,2-Dibromo-3-Chloropropane	18	U	50	18	ug/L			10/08/23 18:20	10
1,2-Dibromoethane (EDB)	3.3	U	20	3.3	ug/L			10/08/23 18:20	10
1,2-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/08/23 18:20	10
1,2-Dichloroethane	2.5	U	10	2.5	ug/L			10/08/23 18:20	10
1,2-Dichloropropane	2.2	U	10	2.2	ug/L			10/08/23 18:20	10
1,3-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/08/23 18:20	10
1,4-Dichlorobenzene	3.1	U	20	3.1	ug/L			10/08/23 18:20	10
2-Butanone (MEK)	64	U	100	64	ug/L			10/08/23 18:20	10
2-Hexanone	32	U	100	32	ug/L			10/08/23 18:20	10
4-Methyl-2-pentanone	27	U J3	100	27	ug/L			10/08/23 18:20	10
Acetone	37	U	100	37	ug/L			10/08/23 18:20	10
Benzene	2.7	U	10	2.7	ug/L			10/08/23 18:20	10
Bromodichloromethane	2.5	U	10	2.5	ug/L			10/08/23 18:20	10
Bromoform	5.9	U	10	5.9	ug/L			10/08/23 18:20	10
Bromomethane	37	U	50	37	ug/L			10/08/23 18:20	10
Carbon disulfide	4.3	U	20	4.3	ug/L			10/08/23 18:20	10
Carbon tetrachloride	3.0	U	10	3.0	ug/L			10/08/23 18:20	10
Chlorobenzene	1.5	U	10	1.5	ug/L			10/08/23 18:20	10
Chloroethane	46	U J3	50	46	ug/L			10/08/23 18:20	10
Chloroform	2.7	U	10	2.7	ug/L			10/08/23 18:20	10
Chloromethane	5.4	U	10	5.4	ug/L			10/08/23 18:20	10

Client Sample ID: LC34-DPT0956-034.0-20231003
Lab Sample ID: 670-27943-35

Date Collected: 10/03/23 13:30
Matrix: Water
Date Received: 10/04/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**440**		10	2.5	ug/L			10/08/23 18:20	10
cis-1,3-Dichloropropene	2.6	U	10	2.6	ug/L			10/08/23 18:20	10
Cyclohexane	2.8	U	10	2.8	ug/L			10/08/23 18:20	10
Dibromochloromethane	3.9	U	10	3.9	ug/L			10/08/23 18:20	10
Dichlorodifluoromethane	3.6	U	10	3.6	ug/L			10/08/23 18:20	10
Ethylbenzene	2.0	U	10	2.0	ug/L			10/08/23 18:20	10
Isopropylbenzene	2.6	U	10	2.6	ug/L			10/08/23 18:20	10
m,p-Xylenes	4.9	U	10	4.9	ug/L			10/08/23 18:20	10
Methyl acetate	32	U	50	32	ug/L			10/08/23 18:20	10
Methyl tert-butyl ether	8.1	U	50	8.1	ug/L			10/08/23 18:20	10
Methylene Chloride	32	U	50	32	ug/L			10/08/23 18:20	10
o-Xylene	2.6	U	10	2.6	ug/L			10/08/23 18:20	10
Styrene	2.7	U	10	2.7	ug/L			10/08/23 18:20	10
Tetrachloroethene	3.5	U	10	3.5	ug/L			10/08/23 18:20	10
Toluene	2.5	U	10	2.5	ug/L			10/08/23 18:20	10
trans-1,2-Dichloroethene	**4.7**	**I**	10	3.4	ug/L			10/08/23 18:20	10
trans-1,3-Dichloropropene	2.3	U	10	2.3	ug/L			10/08/23 18:20	10
Trichloroethene	2.0	U	10	2.0	ug/L			10/08/23 18:20	10
Trichlorofluoromethane	3.3	U	10	3.3	ug/L			10/08/23 18:20	10
Vinyl chloride	**140**		10	4.0	ug/L			10/08/23 18:20	10
Xylenes, Total	2.3	U	10	2.3	ug/L			10/08/23 18:20	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*		*10/08/23 18:20*	*10*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*10/08/23 18:20*	*10*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*10/08/23 18:20*	*10*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/08/23 18:20*	*10*

Client Sample ID: LC34-DPT0956-038.0-20231003
Lab Sample ID: 670-27943-36

Date Collected: 10/03/23 13:50
Matrix: Water
Date Received: 10/04/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/08/23 15:51	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/08/23 15:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/08/23 15:51	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/08/23 15:51	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/08/23 15:51	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/08/23 15:51	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/08/23 15:51	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/08/23 15:51	1
1,2-Dibromoethane (EDB)	0.33	U	2.0	0.33	ug/L			10/08/23 15:51	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/08/23 15:51	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/08/23 15:51	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/08/23 15:51	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/08/23 15:51	1
1,4-Dichlorobenzene	0.31	U	2.0	0.31	ug/L			10/08/23 15:51	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			10/08/23 15:51	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/08/23 15:51	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27943-1

Client Sample ID: LC34-DPT0956-038.0-20231003
Date Collected: 10/03/23 13:50
Date Received: 10/04/23 08:00

Lab Sample ID: 670-27943-36
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/08/23 15:51	1
Acetone	3.7	U J3	10	3.7	ug/L			10/08/23 15:51	1
Benzene	0.27	U	1.0	0.27	ug/L			10/08/23 15:51	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/08/23 15:51	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/08/23 15:51	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/08/23 15:51	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/08/23 15:51	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/08/23 15:51	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/08/23 15:51	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/08/23 15:51	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/08/23 15:51	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/08/23 15:51	1
cis-1,2-Dichloroethene	**0.84**	**I**	1.0	0.25	ug/L			10/08/23 15:51	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/08/23 15:51	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/08/23 15:51	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/08/23 15:51	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/08/23 15:51	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/08/23 15:51	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/08/23 15:51	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/08/23 15:51	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/08/23 15:51	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/08/23 15:51	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/08/23 15:51	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/08/23 15:51	1
Styrene	0.27	U	1.0	0.27	ug/L			10/08/23 15:51	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/08/23 15:51	1
Toluene	0.25	U	1.0	0.25	ug/L			10/08/23 15:51	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/08/23 15:51	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/08/23 15:51	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/08/23 15:51	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/08/23 15:51	1
Vinyl chloride	**0.71**	**I**	1.0	0.40	ug/L			10/08/23 15:51	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/08/23 15:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 124*		*10/08/23 15:51*	*1*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*		*10/08/23 15:51*	*1*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*10/08/23 15:51*	*1*
Toluene-d8 (Surr)	*94*		*70 - 130*		*10/08/23 15:51*	*1*

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27943-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(60-124)	(70-130)	(70-130)	(70-130)
670-27943-1	LC34-DPT0951-008.0-20231002	100	91	109	94
670-27943-1	LC34-DPT0951-008.0-20231002	92	99	99	101
670-27943-2	LC34-DPT0951-013.0-20231002	84	100	95	100
670-27943-3	LC34-DPT0951-018.0-20231002	89	98	98	102
670-27943-4	LC34-DPT0951-025.0-20231002	89	99	98	102
670-27943-5	LC34-DPT0951-034.0-20231002	93	98	100	101
670-27943-6	LC34-DPT0951-038.0-20231002	92	100	98	102
670-27943-7	LC34-DPT0952-008.0-20231002	93	102	100	101
670-27943-8	LC34-DPT0952-013.0-20231002	94	100	99	101
670-27943-9	LC34-DPT0952-018.0-20231002	92	98	99	101
670-27943-10	LC34-DPT0952-025.0-20231002	95	98	101	101
670-27943-11	LC34-DPT0952-034.0-20231002	92	101	99	101
670-27943-12	LC34-DPT0952-038.0-20231002	92	97	100	101
670-27943-13	LC34-DPT0953-008.0-20231002	92	98	100	102
670-27943-14	LC34-DPT0953-013.0-20231002	93	99	99	101
670-27943-15	LC34-DPT0953-018.0-20231002	92	99	100	102
670-27943-16	LC34-DPT0953-025.0-20231002	92	99	99	101
670-27943-17	LC34-DPT0953-034.0-20231002	102	91	109	95
670-27943-17	LC34-DPT0953-034.0-20231002	87	102	92	110
670-27943-18	LC34-DPT0953-038.0-20231002	100	91	111	95
670-27943-19	LC34-DPT0954-008.0-20231003	101	91	112	93
670-27943-20	LC34-DPT0954-013.0-20231003	105	90	112	93
670-27943-20	LC34-DPT0954-013.0-20231003	87	100	94	110
670-27943-21	LC34-DPT0954-018.0-20231003	101	91	109	90
670-27943-22	LC34-DPT0954-025.0-20231003	102	90	111	90
670-27943-23	LC34-DPT0954-034.0-20231003	100	90	109	94
670-27943-24	LC34-DPT0954-038.0-20231003	102	92	111	95
670-27943-25	LC34-DPT0955-008.0-20231003	99	93	109	93

Surrogate Summary

Client: Tetra Tech, Inc.
Job ID: 670-27943-1
Project/Site: NASA KSC LC34 DPT

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Matrix: Water
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(60-124)	(70-130)	(70-130)	(70-130)
670-27943-26	LC34-DPT0955-013.0-20231003	103	90	111	93
670-27943-26	LC34-DPT0955-013.0-20231003	85	101	93	109
670-27943-27	LC34-DPT0955-018.0-20231003	103	89	110	93
670-27943-28	LC34-DPT0955-025.0-20231003	93	101	100	100
670-27943-29	LC34-DPT0955-034.0-20231003	103	91	111	98
670-27943-30	LC34-DPT0955-038.0-20231003	102	90	111	94
670-27943-31	LC34-DPT0956-008.0-20231003	102	92	112	93
670-27943-32	LC34-DPT0956-013.0-20231003	103	93	111	92
670-27943-33	LC34-DPT0956-018.0-20231003	92	101	98	101
670-27943-34	LC34-DPT0956-025.0-20231003	92	100	100	101
670-27943-35	LC34-DPT0956-034.0-20231003	94	100	100	101
670-27943-36	LC34-DPT0956-038.0-20231003	101	91	109	94
680-240853-E-10 MS	Matrix Spike	91	84	92	92
680-240853-E-10 MSD	Matrix Spike Duplicate	98	90	98	100
LCS 680-801496/3	Lab Control Sample	97	90	102	95
LCS 680-801533/3	Lab Control Sample	100	91	103	95
LCS 680-801537/3	Lab Control Sample	96	96	97	97
LCS 680-801650/4	Lab Control Sample	99	91	99	99
LCSD 680-801496/4	Lab Control Sample Dup	105	91	101	94
LCSD 680-801533/4	Lab Control Sample Dup	97	90	101	97
LCSD 680-801537/4	Lab Control Sample Dup	102	96	100	98
LCSD 680-801650/5	Lab Control Sample Dup	95	87	101	99
MB 680-801496/7	Method Blank	99	92	108	94
MB 680-801533/7	Method Blank	100	90	110	95
MB 680-801537/7	Method Blank	90	102	97	100
MB 680-801650/8	Method Blank	85	102	90	111

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 680-801496/7
Matrix: Water
Analysis Batch: 801496

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/07/23 14:24	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/07/23 14:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/07/23 14:24	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/07/23 14:24	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/07/23 14:24	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/07/23 14:24	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/07/23 14:24	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/07/23 14:24	1
1,2-Dibromoethane (EDB)	0.33	U	2.0	0.33	ug/L			10/07/23 14:24	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/07/23 14:24	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/07/23 14:24	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/07/23 14:24	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/07/23 14:24	1
1,4-Dichlorobenzene	0.31	U	2.0	0.31	ug/L			10/07/23 14:24	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/07/23 14:24	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/07/23 14:24	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/07/23 14:24	1
Acetone	3.7	U	10	3.7	ug/L			10/07/23 14:24	1
Benzene	0.27	U	1.0	0.27	ug/L			10/07/23 14:24	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/07/23 14:24	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/07/23 14:24	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/07/23 14:24	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/07/23 14:24	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/07/23 14:24	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/07/23 14:24	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/07/23 14:24	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/07/23 14:24	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/07/23 14:24	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/07/23 14:24	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/07/23 14:24	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/07/23 14:24	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/07/23 14:24	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/07/23 14:24	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/07/23 14:24	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/07/23 14:24	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/07/23 14:24	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/07/23 14:24	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/07/23 14:24	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/07/23 14:24	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/07/23 14:24	1
Styrene	0.27	U	1.0	0.27	ug/L			10/07/23 14:24	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/07/23 14:24	1
Toluene	0.25	U	1.0	0.25	ug/L			10/07/23 14:24	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/07/23 14:24	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/07/23 14:24	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/07/23 14:24	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/07/23 14:24	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/07/23 14:24	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-801496/7
Matrix: Water
Analysis Batch: 801496

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/07/23 14:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 124*		*10/07/23 14:24*	*1*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*10/07/23 14:24*	*1*
Dibromofluoromethane (Surr)	*108*		*70 - 130*		*10/07/23 14:24*	*1*
Toluene-d8 (Surr)	*94*		*70 - 130*		*10/07/23 14:24*	*1*

Lab Sample ID: LCS 680-801496/3
Matrix: Water
Analysis Batch: 801496

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	50.1		ug/L		100	70 - 130
1,1,2,2-Tetrachloroethane	50.0	49.6		ug/L		99	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	51.4		ug/L		103	63 - 141
1,1,2-Trichloroethane	50.0	47.8		ug/L		96	70 - 130
1,1-Dichloroethane	50.0	47.8		ug/L		96	70 - 130
1,1-Dichloroethene	50.0	46.5		ug/L		93	70 - 130
1,2,4-Trichlorobenzene	50.0	51.7		ug/L		103	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	45.5		ug/L		91	70 - 130
1,2-Dibromoethane (EDB)	50.0	47.8		ug/L		96	70 - 130
1,2-Dichlorobenzene	50.0	47.8		ug/L		96	70 - 130
1,2-Dichloroethane	50.0	46.6		ug/L		93	70 - 130
1,2-Dichloropropane	50.0	49.1		ug/L		98	70 - 130
1,3-Dichlorobenzene	50.0	47.1		ug/L		94	70 - 130
1,4-Dichlorobenzene	50.0	46.9		ug/L		94	70 - 130
2-Butanone (MEK)	250	260		ug/L		104	69 - 120
2-Hexanone	250	242		ug/L		97	70 - 130
4-Methyl-2-pentanone	250	242		ug/L		97	68 - 120
Acetone	250	279		ug/L		111	67 - 120
Benzene	50.0	48.0		ug/L		96	70 - 130
Bromodichloromethane	50.0	52.2		ug/L		104	70 - 130
Bromoform	50.0	44.5		ug/L		89	69 - 129
Bromomethane	50.0	51.9		ug/L		104	28 - 192
Carbon disulfide	50.0	50.7		ug/L		101	70 - 130
Carbon tetrachloride	50.0	50.2		ug/L		100	70 - 130
Chlorobenzene	50.0	47.7		ug/L		95	70 - 130
Chloroethane	50.0	66.8		ug/L		134	31 - 213
Chloroform	50.0	46.4		ug/L		93	70 - 130
Chloromethane	50.0	56.6		ug/L		113	59 - 127
cis-1,2-Dichloroethene	50.0	48.2		ug/L		96	70 - 130
cis-1,3-Dichloropropene	50.0	51.3		ug/L		103	70 - 130
Cyclohexane	50.0	48.8		ug/L		98	23 - 175
Dibromochloromethane	50.0	49.6		ug/L		99	70 - 130
Dichlorodifluoromethane	50.0	51.1		ug/L		102	70 - 130
Ethylbenzene	50.0	48.1		ug/L		96	70 - 130
Isopropylbenzene	50.0	48.7		ug/L		97	70 - 130

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-801496/3
Matrix: Water
Analysis Batch: 801496

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
m,p-Xylenes	50.0	48.4		ug/L		97	70 - 130
Methyl acetate	100	83.6		ug/L		84	67 - 120
Methyl tert-butyl ether	50.0	44.8		ug/L		90	70 - 130
Methylene Chloride	50.0	51.5		ug/L		103	70 - 130
o-Xylene	50.0	47.3		ug/L		95	70 - 130
Styrene	50.0	49.9		ug/L		100	70 - 130
Tetrachloroethene	50.0	51.0		ug/L		102	70 - 130
Toluene	50.0	48.4		ug/L		97	70 - 130
trans-1,2-Dichloroethene	50.0	52.8		ug/L		106	70 - 130
trans-1,3-Dichloropropene	50.0	51.2		ug/L		102	70 - 130
Trichloroethene	50.0	49.3		ug/L		99	70 - 130
Trichlorofluoromethane	50.0	60.8		ug/L		122	63 - 142
Vinyl chloride	50.0	63.3		ug/L		127	66 - 129
Xylenes, Total	100	95.7		ug/L		96	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 124*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*
Dibromofluoromethane (Surr)	*102*		*70 - 130*
Toluene-d8 (Surr)	*95*		*70 - 130*

Lab Sample ID: LCSD 680-801496/4
Matrix: Water
Analysis Batch: 801496

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	50.0	49.7		ug/L		99	70 - 130	1	30
1,1,2,2-Tetrachloroethane	50.0	49.9		ug/L		100	70 - 130	0	30
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	49.7		ug/L		99	63 - 141	3	30
1,1,2-Trichloroethane	50.0	49.8		ug/L		100	70 - 130	4	30
1,1-Dichloroethane	50.0	48.5		ug/L		97	70 - 130	2	30
1,1-Dichloroethene	50.0	48.0		ug/L		96	70 - 130	3	20
1,2,4-Trichlorobenzene	50.0	53.2		ug/L		106	70 - 130	3	30
1,2-Dibromo-3-Chloropropane	50.0	49.0		ug/L		98	70 - 130	7	30
1,2-Dibromoethane (EDB)	50.0	48.9		ug/L		98	70 - 130	2	30
1,2-Dichlorobenzene	50.0	48.3		ug/L		97	70 - 130	1	30
1,2-Dichloroethane	50.0	47.7		ug/L		95	70 - 130	2	50
1,2-Dichloropropane	50.0	49.5		ug/L		99	70 - 130	1	20
1,3-Dichlorobenzene	50.0	47.2		ug/L		94	70 - 130	0	30
1,4-Dichlorobenzene	50.0	47.6		ug/L		95	70 - 130	2	30
2-Butanone (MEK)	250	279		ug/L		112	69 - 120	7	30
2-Hexanone	250	254		ug/L		102	70 - 130	5	20
4-Methyl-2-pentanone	250	255		ug/L		102	68 - 120	5	30
Acetone	250	293		ug/L		117	67 - 120	5	30
Benzene	50.0	48.3		ug/L		97	70 - 130	1	30
Bromodichloromethane	50.0	52.8		ug/L		106	70 - 130	1	30
Bromoform	50.0	46.1		ug/L		92	69 - 129	4	30
Bromomethane	50.0	55.6		ug/L		111	28 - 192	7	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-801496/4
Matrix: Water
Analysis Batch: 801496

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon disulfide			50.0	51.2		ug/L		102	70 - 130	1	30
Carbon tetrachloride			50.0	51.8		ug/L		104	70 - 130	3	30
Chlorobenzene			50.0	47.2		ug/L		94	70 - 130	1	30
Chloroethane			50.0	65.2		ug/L		130	31 - 213	2	30
Chloroform			50.0	46.6		ug/L		93	70 - 130	1	30
Chloromethane			50.0	57.5		ug/L		115	59 - 127	2	30
cis-1,2-Dichloroethene			50.0	49.2		ug/L		98	70 - 130	2	30
cis-1,3-Dichloropropene			50.0	51.7		ug/L		103	70 - 130	1	20
Cyclohexane			50.0	48.6		ug/L		97	23 - 175	0	30
Dibromochloromethane			50.0	50.8		ug/L		102	70 - 130	2	30
Dichlorodifluoromethane			50.0	49.4		ug/L		99	70 - 130	4	40
Ethylbenzene			50.0	47.4		ug/L		95	70 - 130	1	20
Isopropylbenzene			50.0	48.7		ug/L		97	70 - 130	0	30
m,p-Xylenes			50.0	47.2		ug/L		94	70 - 130	3	30
Methyl acetate			100	89.2		ug/L		89	67 - 120	6	30
Methyl tert-butyl ether			50.0	47.7		ug/L		95	70 - 130	6	30
Methylene Chloride			50.0	50.3		ug/L		101	70 - 130	2	30
o-Xylene			50.0	47.4		ug/L		95	70 - 130	0	30
Styrene			50.0	49.4		ug/L		99	70 - 130	1	30
Tetrachloroethene			50.0	50.6		ug/L		101	70 - 130	1	30
Toluene			50.0	48.7		ug/L		97	70 - 130	1	30
trans-1,2-Dichloroethene			50.0	51.9		ug/L		104	70 - 130	2	30
trans-1,3-Dichloropropene			50.0	52.1		ug/L		104	70 - 130	2	30
Trichloroethene			50.0	48.3		ug/L		97	70 - 130	2	30
Trichlorofluoromethane			50.0	59.6		ug/L		119	63 - 142	2	30
Vinyl chloride			50.0	67.1	J3	ug/L		134	66 - 129	6	30
Xylenes, Total			100	94.6		ug/L		95	70 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 124*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*94*		*70 - 130*

Lab Sample ID: MB 680-801533/7
Matrix: Water
Analysis Batch: 801533

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/08/23 12:55	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/08/23 12:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/08/23 12:55	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/08/23 12:55	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/08/23 12:55	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/08/23 12:55	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/08/23 12:55	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/08/23 12:55	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/08/23 12:55	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27943-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-801533/7
Matrix: Water
Analysis Batch: 801533

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/08/23 12:55	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/08/23 12:55	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/08/23 12:55	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/08/23 12:55	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/08/23 12:55	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/08/23 12:55	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/08/23 12:55	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/08/23 12:55	1
Acetone	3.7	U	10	3.7	ug/L			10/08/23 12:55	1
Benzene	0.27	U	1.0	0.27	ug/L			10/08/23 12:55	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/08/23 12:55	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/08/23 12:55	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/08/23 12:55	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/08/23 12:55	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/08/23 12:55	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/08/23 12:55	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/08/23 12:55	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/08/23 12:55	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/08/23 12:55	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/08/23 12:55	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/08/23 12:55	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/08/23 12:55	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/08/23 12:55	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/08/23 12:55	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/08/23 12:55	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/08/23 12:55	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/08/23 12:55	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/08/23 12:55	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/08/23 12:55	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/08/23 12:55	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/08/23 12:55	1
Styrene	0.27	U	1.0	0.27	ug/L			10/08/23 12:55	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/08/23 12:55	1
Toluene	0.25	U	1.0	0.25	ug/L			10/08/23 12:55	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/08/23 12:55	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/08/23 12:55	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/08/23 12:55	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/08/23 12:55	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/08/23 12:55	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/08/23 12:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 124*		*10/08/23 12:55*	*1*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*		*10/08/23 12:55*	*1*
Dibromofluoromethane (Surr)	*110*		*70 - 130*		*10/08/23 12:55*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*10/08/23 12:55*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-801533/3
Matrix: Water
Analysis Batch: 801533

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	50.5		ug/L		101	70 - 130
1,1,2,2-Tetrachloroethane	50.0	51.8		ug/L		104	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	53.3		ug/L		107	63 - 141
1,1,2-Trichloroethane	50.0	50.6		ug/L		101	70 - 130
1,1-Dichloroethane	50.0	48.1		ug/L		96	70 - 130
1,1-Dichloroethene	50.0	50.1		ug/L		100	70 - 130
1,2,4-Trichlorobenzene	50.0	56.0		ug/L		112	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	55.2		ug/L		110	70 - 130
1,2-Dibromoethane (EDB)	50.0	50.5		ug/L		101	70 - 130
1,2-Dichlorobenzene	50.0	48.6		ug/L		97	70 - 130
1,2-Dichloroethane	50.0	47.0		ug/L		94	70 - 130
1,2-Dichloropropane	50.0	49.5		ug/L		99	70 - 130
1,3-Dichlorobenzene	50.0	47.3		ug/L		95	70 - 130
1,4-Dichlorobenzene	50.0	47.1		ug/L		94	70 - 130
2-Butanone (MEK)	250	296		ug/L		118	69 - 120
2-Hexanone	250	277		ug/L		111	70 - 130
4-Methyl-2-pentanone	250	268		ug/L		107	68 - 120
Acetone	250	314	J3	ug/L		126	67 - 120
Benzene	50.0	48.5		ug/L		97	70 - 130
Bromodichloromethane	50.0	52.7		ug/L		105	70 - 130
Bromoform	50.0	48.0		ug/L		96	69 - 129
Bromomethane	50.0	54.4		ug/L		109	28 - 192
Carbon disulfide	50.0	52.3		ug/L		105	70 - 130
Carbon tetrachloride	50.0	53.2		ug/L		106	70 - 130
Chlorobenzene	50.0	48.3		ug/L		97	70 - 130
Chloroethane	50.0	68.6		ug/L		137	31 - 213
Chloroform	50.0	46.4		ug/L		93	70 - 130
Chloromethane	50.0	56.3		ug/L		113	59 - 127
cis-1,2-Dichloroethene	50.0	48.1		ug/L		96	70 - 130
cis-1,3-Dichloropropene	50.0	51.8		ug/L		104	70 - 130
Cyclohexane	50.0	50.5		ug/L		101	23 - 175
Dibromochloromethane	50.0	52.0		ug/L		104	70 - 130
Dichlorodifluoromethane	50.0	54.8		ug/L		110	70 - 130
Ethylbenzene	50.0	48.2		ug/L		96	70 - 130
Isopropylbenzene	50.0	48.9		ug/L		98	70 - 130
m,p-Xylenes	50.0	47.8		ug/L		96	70 - 130
Methyl acetate	100	95.0		ug/L		95	67 - 120
Methyl tert-butyl ether	50.0	49.6		ug/L		99	70 - 130
Methylene Chloride	50.0	51.6		ug/L		103	70 - 130
o-Xylene	50.0	47.5		ug/L		95	70 - 130
Styrene	50.0	49.6		ug/L		99	70 - 130
Tetrachloroethene	50.0	52.9		ug/L		106	70 - 130
Toluene	50.0	48.7		ug/L		97	70 - 130
trans-1,2-Dichloroethene	50.0	52.6		ug/L		105	70 - 130
trans-1,3-Dichloropropene	50.0	52.4		ug/L		105	70 - 130
Trichloroethene	50.0	49.7		ug/L		99	70 - 130
Trichlorofluoromethane	50.0	42.3		ug/L		85	63 - 142
Vinyl chloride	50.0	63.2		ug/L		126	66 - 129

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-801533/3
Matrix: Water
Analysis Batch: 801533

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Xylenes, Total			100	95.3		ug/L		95	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 124*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*
Dibromofluoromethane (Surr)	*103*		*70 - 130*
Toluene-d8 (Surr)	*95*		*70 - 130*

Lab Sample ID: LCSD 680-801533/4
Matrix: Water
Analysis Batch: 801533

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane			50.0	49.3		ug/L		99	70 - 130	2	30
1,1,2,2-Tetrachloroethane			50.0	54.9		ug/L		110	70 - 130	6	30
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	52.2		ug/L		104	63 - 141	2	30
1,1,2-Trichloroethane			50.0	50.8		ug/L		102	70 - 130	0	30
1,1-Dichloroethane			50.0	46.9		ug/L		94	70 - 130	2	30
1,1-Dichloroethene			50.0	52.7		ug/L		105	70 - 130	5	20
1,2,4-Trichlorobenzene			50.0	56.9		ug/L		114	70 - 130	2	30
1,2-Dibromo-3-Chloropropane			50.0	57.4		ug/L		115	70 - 130	4	30
1,2-Dibromoethane (EDB)			50.0	51.5		ug/L		103	70 - 130	2	30
1,2-Dichlorobenzene			50.0	48.9		ug/L		98	70 - 130	1	30
1,2-Dichloroethane			50.0	47.5		ug/L		95	70 - 130	1	50
1,2-Dichloropropane			50.0	50.2		ug/L		100	70 - 130	1	20
1,3-Dichlorobenzene			50.0	47.4		ug/L		95	70 - 130	0	30
1,4-Dichlorobenzene			50.0	46.9		ug/L		94	70 - 130	0	30
2-Butanone (MEK)			250	316	J3	ug/L		127	69 - 120	7	30
2-Hexanone			250	292		ug/L		117	70 - 130	5	20
4-Methyl-2-pentanone			250	285		ug/L		114	68 - 120	6	30
Acetone			250	340	J3	ug/L		136	67 - 120	8	30
Benzene			50.0	47.8		ug/L		96	70 - 130	1	30
Bromodichloromethane			50.0	53.1		ug/L		106	70 - 130	1	30
Bromoform			50.0	50.7		ug/L		101	69 - 129	5	30
Bromomethane			50.0	57.0		ug/L		114	28 - 192	5	30
Carbon disulfide			50.0	51.5		ug/L		103	70 - 130	1	30
Carbon tetrachloride			50.0	51.2		ug/L		102	70 - 130	4	30
Chlorobenzene			50.0	48.4		ug/L		97	70 - 130	0	30
Chloroethane			50.0	81.0		ug/L		162	31 - 213	17	30
Chloroform			50.0	46.2		ug/L		92	70 - 130	1	30
Chloromethane			50.0	55.1		ug/L		110	59 - 127	2	30
cis-1,2-Dichloroethene			50.0	48.0		ug/L		96	70 - 130	0	30
cis-1,3-Dichloropropene			50.0	52.1		ug/L		104	70 - 130	1	20
Cyclohexane			50.0	49.2		ug/L		98	23 - 175	3	30
Dibromochloromethane			50.0	52.1		ug/L		104	70 - 130	0	30
Dichlorodifluoromethane			50.0	54.4		ug/L		109	70 - 130	1	40
Ethylbenzene			50.0	48.1		ug/L		96	70 - 130	0	20
Isopropylbenzene			50.0	48.7		ug/L		97	70 - 130	1	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-801533/4
Matrix: Water
Analysis Batch: 801533

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m,p-Xylenes			50.0	47.8		ug/L		96	70 - 130	0	30
Methyl acetate			100	101		ug/L		101	67 - 120	6	30
Methyl tert-butyl ether			50.0	50.0		ug/L		100	70 - 130	1	30
Methylene Chloride			50.0	42.9		ug/L		86	70 - 130	18	30
o-Xylene			50.0	47.9		ug/L		96	70 - 130	1	30
Styrene			50.0	50.4		ug/L		101	70 - 130	2	30
Tetrachloroethene			50.0	52.0		ug/L		104	70 - 130	2	30
Toluene			50.0	48.0		ug/L		96	70 - 130	1	30
trans-1,2-Dichloroethene			50.0	52.1		ug/L		104	70 - 130	1	30
trans-1,3-Dichloropropene			50.0	52.3		ug/L		105	70 - 130	0	30
Trichloroethene			50.0	49.0		ug/L		98	70 - 130	1	30
Trichlorofluoromethane			50.0	39.3		ug/L		79	63 - 142	7	30
Vinyl chloride			50.0	61.0		ug/L		122	66 - 129	4	30
Xylenes, Total			100	95.7		ug/L		96	70 - 130	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 124*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*97*		*70 - 130*

Lab Sample ID: MB 680-801537/7
Matrix: Water
Analysis Batch: 801537

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/08/23 12:59	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/08/23 12:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/08/23 12:59	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/08/23 12:59	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/08/23 12:59	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/08/23 12:59	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/08/23 12:59	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/08/23 12:59	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/08/23 12:59	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/08/23 12:59	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/08/23 12:59	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/08/23 12:59	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/08/23 12:59	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/08/23 12:59	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/08/23 12:59	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/08/23 12:59	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/08/23 12:59	1
Acetone	3.7	U	10	3.7	ug/L			10/08/23 12:59	1
Benzene	0.27	U	1.0	0.27	ug/L			10/08/23 12:59	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/08/23 12:59	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/08/23 12:59	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/08/23 12:59	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-801537/7
Matrix: Water
Analysis Batch: 801537

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/08/23 12:59	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/08/23 12:59	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/08/23 12:59	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/08/23 12:59	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/08/23 12:59	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/08/23 12:59	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/08/23 12:59	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/08/23 12:59	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/08/23 12:59	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/08/23 12:59	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/08/23 12:59	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/08/23 12:59	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/08/23 12:59	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/08/23 12:59	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/08/23 12:59	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/08/23 12:59	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/08/23 12:59	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/08/23 12:59	1
Styrene	0.27	U	1.0	0.27	ug/L			10/08/23 12:59	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/08/23 12:59	1
Toluene	0.25	U	1.0	0.25	ug/L			10/08/23 12:59	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/08/23 12:59	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/08/23 12:59	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/08/23 12:59	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/08/23 12:59	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/08/23 12:59	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/08/23 12:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*60 - 124*		*10/08/23 12:59*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*10/08/23 12:59*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*10/08/23 12:59*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/08/23 12:59*	*1*

Lab Sample ID: LCS 680-801537/3
Matrix: Water
Analysis Batch: 801537

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	51.1		ug/L		102	70 - 130
1,1,2,2-Tetrachloroethane	50.0	56.5		ug/L		113	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	52.1		ug/L		104	63 - 141
1,1,2-Trichloroethane	50.0	54.4		ug/L		109	70 - 130
1,1-Dichloroethane	50.0	51.2		ug/L		102	70 - 130
1,1-Dichloroethene	50.0	51.2		ug/L		102	70 - 130
1,2,4-Trichlorobenzene	50.0	55.9		ug/L		112	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	54.2		ug/L		108	70 - 130
1,2-Dibromoethane (EDB)	50.0	52.8		ug/L		106	70 - 130

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-801537/3
Matrix: Water
Analysis Batch: 801537

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichlorobenzene	50.0	53.0		ug/L		106	70 - 130
1,2-Dichloroethane	50.0	52.3		ug/L		105	70 - 130
1,2-Dichloropropane	50.0	52.0		ug/L		104	70 - 130
1,3-Dichlorobenzene	50.0	50.5		ug/L		101	70 - 130
1,4-Dichlorobenzene	50.0	49.3		ug/L		99	70 - 130
2-Butanone (MEK)	250	267		ug/L		107	69 - 120
2-Hexanone	250	267		ug/L		107	70 - 130
4-Methyl-2-pentanone	250	280		ug/L		112	68 - 120
Acetone	250	280		ug/L		112	67 - 120
Benzene	50.0	50.6		ug/L		101	70 - 130
Bromodichloromethane	50.0	52.4		ug/L		105	70 - 130
Bromoform	50.0	47.8		ug/L		96	69 - 129
Bromomethane	50.0	62.6		ug/L		125	28 - 192
Carbon disulfide	50.0	51.3		ug/L		103	70 - 130
Carbon tetrachloride	50.0	51.2		ug/L		102	70 - 130
Chlorobenzene	50.0	49.7		ug/L		99	70 - 130
Chloroethane	50.0	47.5		ug/L		95	31 - 213
Chloroform	50.0	46.8		ug/L		94	70 - 130
Chloromethane	50.0	53.3		ug/L		107	59 - 127
cis-1,2-Dichloroethene	50.0	51.8		ug/L		104	70 - 130
cis-1,3-Dichloropropene	50.0	48.0		ug/L		96	70 - 130
Cyclohexane	50.0	49.5		ug/L		99	23 - 175
Dibromochloromethane	50.0	54.4		ug/L		109	70 - 130
Dichlorodifluoromethane	50.0	55.3		ug/L		111	70 - 130
Ethylbenzene	50.0	53.2		ug/L		106	70 - 130
Isopropylbenzene	50.0	46.5		ug/L		93	70 - 130
m,p-Xylenes	50.0	52.4		ug/L		105	70 - 130
Methyl acetate	100	104		ug/L		104	67 - 120
Methyl tert-butyl ether	50.0	55.8		ug/L		112	70 - 130
Methylene Chloride	50.0	50.7		ug/L		101	70 - 130
o-Xylene	50.0	45.7		ug/L		91	70 - 130
Styrene	50.0	46.6		ug/L		93	70 - 130
Tetrachloroethene	50.0	49.8		ug/L		100	70 - 130
Toluene	50.0	52.5		ug/L		105	70 - 130
trans-1,2-Dichloroethene	50.0	52.8		ug/L		106	70 - 130
trans-1,3-Dichloropropene	50.0	47.8		ug/L		96	70 - 130
Trichloroethene	50.0	49.4		ug/L		99	70 - 130
Trichlorofluoromethane	50.0	54.1		ug/L		108	63 - 142
Vinyl chloride	50.0	55.5		ug/L		111	66 - 129
Xylenes, Total	100	98.1		ug/L		98	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*60 - 124*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
Dibromofluoromethane (Surr)	*97*		*70 - 130*
Toluene-d8 (Surr)	*97*		*70 - 130*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-801537/4
Matrix: Water
Analysis Batch: 801537

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	50.0	51.7		ug/L		103	70 - 130	1	30
1,1,2,2-Tetrachloroethane	50.0	58.7		ug/L		117	70 - 130	4	30
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	51.9		ug/L		104	63 - 141	1	30
1,1,2-Trichloroethane	50.0	55.2		ug/L		110	70 - 130	2	30
1,1-Dichloroethane	50.0	51.4		ug/L		103	70 - 130	0	30
1,1-Dichloroethene	50.0	50.6		ug/L		101	70 - 130	1	20
1,2,4-Trichlorobenzene	50.0	57.4		ug/L		115	70 - 130	3	30
1,2-Dibromo-3-Chloropropane	50.0	58.9		ug/L		118	70 - 130	8	30
1,2-Dibromoethane (EDB)	50.0	55.6		ug/L		111	70 - 130	5	30
1,2-Dichlorobenzene	50.0	53.2		ug/L		106	70 - 130	0	30
1,2-Dichloroethane	50.0	54.7		ug/L		109	70 - 130	4	50
1,2-Dichloropropane	50.0	52.6		ug/L		105	70 - 130	1	20
1,3-Dichlorobenzene	50.0	50.6		ug/L		101	70 - 130	0	30
1,4-Dichlorobenzene	50.0	48.8		ug/L		98	70 - 130	1	30
2-Butanone (MEK)	250	281		ug/L		112	69 - 120	5	30
2-Hexanone	250	284		ug/L		114	70 - 130	6	20
4-Methyl-2-pentanone	250	315	J3	ug/L		126	68 - 120	12	30
Acetone	250	296		ug/L		118	67 - 120	6	30
Benzene	50.0	50.4		ug/L		101	70 - 130	0	30
Bromodichloromethane	50.0	53.6		ug/L		107	70 - 130	2	30
Bromoform	50.0	49.8		ug/L		100	69 - 129	4	30
Bromomethane	50.0	63.0		ug/L		126	28 - 192	1	30
Carbon disulfide	50.0	50.3		ug/L		101	70 - 130	2	30
Carbon tetrachloride	50.0	52.2		ug/L		104	70 - 130	2	30
Chlorobenzene	50.0	50.9		ug/L		102	70 - 130	2	30
Chloroethane	50.0	71.9	J3	ug/L		144	31 - 213	41	30
Chloroform	50.0	47.0		ug/L		94	70 - 130	0	30
Chloromethane	50.0	52.9		ug/L		106	59 - 127	1	30
cis-1,2-Dichloroethene	50.0	52.4		ug/L		105	70 - 130	1	30
cis-1,3-Dichloropropene	50.0	49.0		ug/L		98	70 - 130	2	20
Cyclohexane	50.0	48.4		ug/L		97	23 - 175	2	30
Dibromochloromethane	50.0	56.4		ug/L		113	70 - 130	4	30
Dichlorodifluoromethane	50.0	54.1		ug/L		108	70 - 130	2	40
Ethylbenzene	50.0	52.1		ug/L		104	70 - 130	2	20
Isopropylbenzene	50.0	45.7		ug/L		91	70 - 130	2	30
m,p-Xylenes	50.0	52.9		ug/L		106	70 - 130	1	30
Methyl acetate	100	114		ug/L		114	67 - 120	9	30
Methyl tert-butyl ether	50.0	59.0		ug/L		118	70 - 130	6	30
Methylene Chloride	50.0	51.4		ug/L		103	70 - 130	1	30
o-Xylene	50.0	46.2		ug/L		92	70 - 130	1	30
Styrene	50.0	47.9		ug/L		96	70 - 130	3	30
Tetrachloroethene	50.0	50.2		ug/L		100	70 - 130	1	30
Toluene	50.0	52.0		ug/L		104	70 - 130	1	30
trans-1,2-Dichloroethene	50.0	52.4		ug/L		105	70 - 130	1	30
trans-1,3-Dichloropropene	50.0	49.7		ug/L		99	70 - 130	4	30
Trichloroethene	50.0	50.1		ug/L		100	70 - 130	1	30
Trichlorofluoromethane	50.0	53.1		ug/L		106	63 - 142	2	30
Vinyl chloride	50.0	55.7		ug/L		111	66 - 129	0	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-801537/4
Matrix: Water
Analysis Batch: 801537

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Xylenes, Total			100	99.1		ug/L		99	70 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 124*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
Dibromofluoromethane (Surr)	*100*		*70 - 130*
Toluene-d8 (Surr)	*98*		*70 - 130*

Lab Sample ID: MB 680-801650/8
Matrix: Water
Analysis Batch: 801650

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/09/23 12:33	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/09/23 12:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/09/23 12:33	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/09/23 12:33	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/09/23 12:33	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/09/23 12:33	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/09/23 12:33	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/09/23 12:33	1
1,2-Dibromoethane (EDB)	0.33	U	2.0	0.33	ug/L			10/09/23 12:33	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 12:33	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/09/23 12:33	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/09/23 12:33	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 12:33	1
1,4-Dichlorobenzene	0.31	U	2.0	0.31	ug/L			10/09/23 12:33	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/09/23 12:33	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/09/23 12:33	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/09/23 12:33	1
Acetone	3.7	U	10	3.7	ug/L			10/09/23 12:33	1
Benzene	0.27	U	1.0	0.27	ug/L			10/09/23 12:33	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/09/23 12:33	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/09/23 12:33	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/09/23 12:33	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/09/23 12:33	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/09/23 12:33	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/09/23 12:33	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/09/23 12:33	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/09/23 12:33	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/09/23 12:33	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/09/23 12:33	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/09/23 12:33	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/09/23 12:33	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/09/23 12:33	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/09/23 12:33	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/09/23 12:33	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/09/23 12:33	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-801650/8
Matrix: Water
Analysis Batch: 801650

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/09/23 12:33	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/09/23 12:33	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/09/23 12:33	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/09/23 12:33	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/09/23 12:33	1
Styrene	0.27	U	1.0	0.27	ug/L			10/09/23 12:33	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/09/23 12:33	1
Toluene	0.25	U	1.0	0.25	ug/L			10/09/23 12:33	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/09/23 12:33	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/09/23 12:33	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/09/23 12:33	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/09/23 12:33	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/09/23 12:33	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/09/23 12:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*85*		*60 - 124*		*10/09/23 12:33*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*10/09/23 12:33*	*1*
Dibromofluoromethane (Surr)	*90*		*70 - 130*		*10/09/23 12:33*	*1*
Toluene-d8 (Surr)	*111*		*70 - 130*		*10/09/23 12:33*	*1*

Lab Sample ID: LCS 680-801650/4
Matrix: Water
Analysis Batch: 801650

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	52.5		ug/L		105	70 - 130
1,1,2,2-Tetrachloroethane	50.0	49.0		ug/L		98	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	43.4		ug/L		87	63 - 141
1,1,2-Trichloroethane	50.0	46.5		ug/L		93	70 - 130
1,1-Dichloroethane	50.0	49.7		ug/L		99	70 - 130
1,1-Dichloroethene	50.0	47.4		ug/L		95	70 - 130
1,2,4-Trichlorobenzene	50.0	39.8		ug/L		80	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	47.5		ug/L		95	70 - 130
1,2-Dibromoethane (EDB)	50.0	46.5		ug/L		93	70 - 130
1,2-Dichlorobenzene	50.0	45.0		ug/L		90	70 - 130
1,2-Dichloroethane	50.0	50.7		ug/L		101	70 - 130
1,2-Dichloropropane	50.0	49.2		ug/L		98	70 - 130
1,3-Dichlorobenzene	50.0	49.0		ug/L		98	70 - 130
1,4-Dichlorobenzene	50.0	48.5		ug/L		97	70 - 130
2-Butanone (MEK)	250	196		ug/L		78	69 - 120
2-Hexanone	250	236		ug/L		94	70 - 130
4-Methyl-2-pentanone	250	237		ug/L		95	68 - 120
Acetone	250	216		ug/L		86	67 - 120
Benzene	50.0	50.6		ug/L		101	70 - 130
Bromodichloromethane	50.0	46.6		ug/L		93	70 - 130
Bromoform	50.0	40.9		ug/L		82	69 - 129
Bromomethane	50.0	55.8		ug/L		112	28 - 192

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-801650/4
Matrix: Water
Analysis Batch: 801650

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Carbon disulfide	50.0	53.0		ug/L		106	70 - 130
Carbon tetrachloride	50.0	46.2		ug/L		92	70 - 130
Chlorobenzene	50.0	49.8		ug/L		100	70 - 130
Chloroethane	50.0	65.2		ug/L		130	31 - 213
Chloroform	50.0	48.7		ug/L		97	70 - 130
Chloromethane	50.0	56.4		ug/L		113	59 - 127
cis-1,2-Dichloroethene	50.0	51.2		ug/L		102	70 - 130
cis-1,3-Dichloropropene	50.0	46.7		ug/L		93	70 - 130
Cyclohexane	50.0	48.9		ug/L		98	23 - 175
Dibromochloromethane	50.0	44.4		ug/L		89	70 - 130
Dichlorodifluoromethane	50.0	48.0		ug/L		96	70 - 130
Ethylbenzene	50.0	51.8		ug/L		104	70 - 130
Isopropylbenzene	50.0	53.0		ug/L		106	70 - 130
m,p-Xylenes	50.0	53.3		ug/L		107	70 - 130
Methyl acetate	100	89.1		ug/L		89	67 - 120
Methyl tert-butyl ether	50.0	46.7		ug/L		93	70 - 130
Methylene Chloride	50.0	53.9		ug/L		108	70 - 130
o-Xylene	50.0	52.5		ug/L		105	70 - 130
Styrene	50.0	54.5		ug/L		109	70 - 130
Tetrachloroethene	50.0	46.6		ug/L		93	70 - 130
Toluene	50.0	51.3		ug/L		103	70 - 130
trans-1,2-Dichloroethene	50.0	50.0		ug/L		100	70 - 130
trans-1,3-Dichloropropene	50.0	47.1		ug/L		94	70 - 130
Trichloroethene	50.0	49.5		ug/L		99	70 - 130
Trichlorofluoromethane	50.0	52.6		ug/L		105	63 - 142
Vinyl chloride	50.0	56.4		ug/L		113	66 - 129
Xylenes, Total	100	106		ug/L		106	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 124*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*
Dibromofluoromethane (Surr)	*99*		*70 - 130*
Toluene-d8 (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 680-801650/5
Matrix: Water
Analysis Batch: 801650

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	50.0	52.4		ug/L		105	70 - 130	0	30
1,1,2,2-Tetrachloroethane	50.0	49.8		ug/L		100	70 - 130	2	30
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	50.4		ug/L		101	63 - 141	15	30
1,1,2-Trichloroethane	50.0	46.7		ug/L		93	70 - 130	0	30
1,1-Dichloroethane	50.0	55.9		ug/L		112	70 - 130	12	30
1,1-Dichloroethene	50.0	48.5		ug/L		97	70 - 130	2	20
1,2,4-Trichlorobenzene	50.0	56.2	J3	ug/L		112	70 - 130	34	30
1,2-Dibromo-3-Chloropropane	50.0	56.4		ug/L		113	70 - 130	17	30
1,2-Dibromoethane (EDB)	50.0	46.8		ug/L		94	70 - 130	1	30

Client: Tetra Tech, Inc.
Job ID: 670-27943-1
Project/Site: NASA KSC LC34 DPT

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-801650/5
Matrix: Water
Analysis Batch: 801650

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dichlorobenzene			50.0	49.1		ug/L		98	70 - 130	9	30
1,2-Dichloroethane			50.0	48.8		ug/L		98	70 - 130	4	50
1,2-Dichloropropane			50.0	49.2		ug/L		98	70 - 130	0	20
1,3-Dichlorobenzene			50.0	48.7		ug/L		97	70 - 130	1	30
1,4-Dichlorobenzene			50.0	48.2		ug/L		96	70 - 130	1	30
2-Butanone (MEK)			250	195		ug/L		78	69 - 120	1	30
2-Hexanone			250	236		ug/L		94	70 - 130	0	20
4-Methyl-2-pentanone			250	240		ug/L		96	68 - 120	1	30
Acetone			250	259		ug/L		103	67 - 120	18	30
Benzene			50.0	50.9		ug/L		102	70 - 130	1	30
Bromodichloromethane			50.0	45.6		ug/L		91	70 - 130	2	30
Bromoform			50.0	42.0		ug/L		84	69 - 129	3	30
Bromomethane			50.0	67.6		ug/L		135	28 - 192	19	30
Carbon disulfide			50.0	61.1		ug/L		122	70 - 130	14	30
Carbon tetrachloride			50.0	45.5		ug/L		91	70 - 130	2	30
Chlorobenzene			50.0	50.9		ug/L		102	70 - 130	2	30
Chloroethane			50.0	77.6		ug/L		155	31 - 213	17	30
Chloroform			50.0	47.3		ug/L		95	70 - 130	3	30
Chloromethane			50.0	58.4		ug/L		117	59 - 127	3	30
cis-1,2-Dichloroethene			50.0	50.1		ug/L		100	70 - 130	2	30
cis-1,3-Dichloropropene			50.0	46.7		ug/L		93	70 - 130	0	20
Cyclohexane			50.0	49.2		ug/L		98	23 - 175	1	30
Dibromochloromethane			50.0	44.5		ug/L		89	70 - 130	0	30
Dichlorodifluoromethane			50.0	48.8		ug/L		98	70 - 130	1	40
Ethylbenzene			50.0	52.5		ug/L		105	70 - 130	1	20
Isopropylbenzene			50.0	54.8		ug/L		110	70 - 130	3	30
m,p-Xylenes			50.0	53.5		ug/L		107	70 - 130	0	30
Methyl acetate			100	104		ug/L		104	67 - 120	16	30
Methyl tert-butyl ether			50.0	53.0		ug/L		106	70 - 130	13	30
Methylene Chloride			50.0	61.8		ug/L		124	70 - 130	14	30
o-Xylene			50.0	53.4		ug/L		107	70 - 130	2	30
Styrene			50.0	55.0		ug/L		110	70 - 130	1	30
Tetrachloroethene			50.0	47.7		ug/L		95	70 - 130	2	30
Toluene			50.0	51.3		ug/L		103	70 - 130	0	30
trans-1,2-Dichloroethene			50.0	55.5		ug/L		111	70 - 130	10	30
trans-1,3-Dichloropropene			50.0	46.6		ug/L		93	70 - 130	1	30
Trichloroethene			50.0	51.3		ug/L		103	70 - 130	4	30
Trichlorofluoromethane			50.0	53.1		ug/L		106	63 - 142	1	30
Vinyl chloride			50.0	56.2		ug/L		112	66 - 129	0	30
Xylenes, Total			100	107		ug/L		107	70 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*99*		*70 - 130*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 680-240853-E-10 MS
Matrix: Water
Analysis Batch: 801650

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.21	U	50.0	49.8		ug/L		100	70 - 130
1,1,2,2-Tetrachloroethane	0.40	U	50.0	41.8		ug/L		84	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	50.0	43.7		ug/L		87	63 - 141
1,1,2-Trichloroethane	0.32	U	50.0	41.9		ug/L		84	70 - 130
1,1-Dichloroethane	0.33	U	50.0	46.0		ug/L		92	70 - 130
1,1-Dichloroethene	0.33	U	50.0	45.6		ug/L		91	70 - 130
1,2,4-Trichlorobenzene	0.53	U J3	50.0	46.7		ug/L		93	70 - 130
1,2-Dibromo-3-Chloropropane	1.8	U	50.0	46.3		ug/L		93	70 - 130
1,2-Dibromoethane (EDB)	0.33	U	50.0	41.2		ug/L		82	70 - 130
1,2-Dichlorobenzene	0.31	U	50.0	44.9		ug/L		90	70 - 130
1,2-Dichloroethane	0.25	U	50.0	46.0		ug/L		92	70 - 130
1,2-Dichloropropane	2.1		50.0	48.2		ug/L		92	70 - 130
1,3-Dichlorobenzene	0.31	U	50.0	46.4		ug/L		93	70 - 130
1,4-Dichlorobenzene	0.31	U	50.0	45.3		ug/L		91	70 - 130
2-Butanone (MEK)	6.4	U J3	250	126	J3	ug/L		50	69 - 120
2-Hexanone	3.2	U	250	182		ug/L		73	70 - 130
4-Methyl-2-pentanone	2.7	U	250	195		ug/L		78	68 - 120
Acetone	3.7	U J3	250	135	J3	ug/L		54	67 - 120
Benzene	0.27	U	50.0	47.5		ug/L		95	70 - 130
Bromodichloromethane	0.25	U	50.0	43.1		ug/L		86	70 - 130
Bromoform	0.59	U	50.0	38.3		ug/L		77	69 - 129
Bromomethane	3.7	U J3	50.0	40.9		ug/L		82	28 - 192
Carbon disulfide	0.43	U	50.0	52.8		ug/L		106	70 - 130
Carbon tetrachloride	0.30	U	50.0	45.3		ug/L		91	70 - 130
Chlorobenzene	0.15	U	50.0	47.2		ug/L		94	70 - 130
Chloroethane	4.6	U	50.0	67.3		ug/L		135	31 - 213
Chloroform	0.27	U	50.0	44.5		ug/L		89	70 - 130
Chloromethane	0.54	U J3	50.0	48.0		ug/L		96	59 - 127
cis-1,2-Dichloroethene	0.25	U	50.0	46.2		ug/L		92	70 - 130
cis-1,3-Dichloropropene	0.26	U	50.0	41.6		ug/L		83	70 - 130
Cyclohexane	0.28	U	50.0	48.7		ug/L		97	23 - 175
Dibromochloromethane	0.39	U	50.0	40.9		ug/L		82	70 - 130
Dichlorodifluoromethane	0.36	U J3	50.0	49.4		ug/L		99	70 - 130
Ethylbenzene	0.20	U	50.0	50.3		ug/L		101	70 - 130
Isopropylbenzene	0.26	U	50.0	51.3		ug/L		103	70 - 130
m,p-Xylenes	0.49	U	50.0	51.4		ug/L		103	70 - 130
Methyl acetate	3.2	U	100	75.5		ug/L		75	67 - 120
Methyl tert-butyl ether	0.81	U	50.0	41.5		ug/L		83	70 - 130
Methylene Chloride	3.2	U	50.0	47.7		ug/L		95	70 - 130
o-Xylene	0.26	U	50.0	49.9		ug/L		100	70 - 130
Styrene	0.27	U	50.0	49.2		ug/L		98	70 - 130
Tetrachloroethene	0.35	U	50.0	45.6		ug/L		91	70 - 130
Toluene	0.25	U	50.0	48.3		ug/L		97	70 - 130
trans-1,2-Dichloroethene	0.34	U	50.0	46.1		ug/L		92	70 - 130
trans-1,3-Dichloropropene	0.23	U	50.0	42.6		ug/L		85	70 - 130
Trichloroethene	0.20	U	50.0	47.6		ug/L		95	70 - 130
Trichlorofluoromethane	0.33	U	50.0	37.5		ug/L		75	63 - 142
Vinyl chloride	0.40	U J3	50.0	49.3		ug/L		99	66 - 129

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 680-240853-E-10 MS
Matrix: Water
Analysis Batch: 801650

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Xylenes, Total	0.23	U	100	101		ug/L		101	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*91*		*60 - 124*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*
Dibromofluoromethane (Surr)	*92*		*70 - 130*
Toluene-d8 (Surr)	*92*		*70 - 130*

Lab Sample ID: 680-240853-E-10 MSD
Matrix: Water
Analysis Batch: 801650

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	0.21	U	50.0	54.0		ug/L		108	70 - 130	8	30
1,1,2,2-Tetrachloroethane	0.40	U	50.0	45.2		ug/L		90	70 - 130	8	30
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	50.0	44.7		ug/L		89	63 - 141	2	30
1,1,2-Trichloroethane	0.32	U	50.0	45.7		ug/L		91	70 - 130	9	30
1,1-Dichloroethane	0.33	U	50.0	49.4		ug/L		99	70 - 130	7	30
1,1-Dichloroethene	0.33	U	50.0	49.2		ug/L		98	70 - 130	8	20
1,2,4-Trichlorobenzene	0.53	U J3	50.0	51.0		ug/L		102	70 - 130	9	30
1,2-Dibromo-3-Chloropropane	1.8	U	50.0	53.5		ug/L		107	70 - 130	14	30
1,2-Dibromoethane (EDB)	0.33	U	50.0	45.4		ug/L		91	70 - 130	10	30
1,2-Dichlorobenzene	0.31	U	50.0	48.6		ug/L		97	70 - 130	8	30
1,2-Dichloroethane	0.25	U	50.0	49.8		ug/L		100	70 - 130	8	50
1,2-Dichloropropane	2.1		50.0	51.7		ug/L		99	70 - 130	7	20
1,3-Dichlorobenzene	0.31	U	50.0	49.3		ug/L		99	70 - 130	6	30
1,4-Dichlorobenzene	0.31	U	50.0	48.6		ug/L		97	70 - 130	7	30
2-Butanone (MEK)	6.4	U J3	250	146	J3	ug/L		58	69 - 120	15	30
2-Hexanone	3.2	U	250	206		ug/L		83	70 - 130	13	20
4-Methyl-2-pentanone	2.7	U	250	219		ug/L		88	68 - 120	12	30
Acetone	3.7	U J3	250	162	J3	ug/L		65	67 - 120	19	30
Benzene	0.27	U	50.0	50.8		ug/L		102	70 - 130	7	30
Bromodichloromethane	0.25	U	50.0	47.2		ug/L		94	70 - 130	9	30
Bromoform	0.59	U	50.0	40.9		ug/L		82	69 - 129	6	30
Bromomethane	3.7	U J3	50.0	58.5	J3	ug/L		117	28 - 192	35	30
Carbon disulfide	0.43	U	50.0	57.4		ug/L		115	70 - 130	8	30
Carbon tetrachloride	0.30	U	50.0	48.5		ug/L		97	70 - 130	7	30
Chlorobenzene	0.15	U	50.0	50.0		ug/L		100	70 - 130	6	30
Chloroethane	4.6	U	50.0	52.6		ug/L		105	31 - 213	25	30
Chloroform	0.27	U	50.0	48.2		ug/L		96	70 - 130	8	30
Chloromethane	0.54	U J3	50.0	65.5	J3	ug/L		131	59 - 127	31	30
cis-1,2-Dichloroethene	0.25	U	50.0	49.9		ug/L		100	70 - 130	8	30
cis-1,3-Dichloropropene	0.26	U	50.0	45.6		ug/L		91	70 - 130	9	20
Cyclohexane	0.28	U	50.0	52.1		ug/L		104	23 - 175	7	30
Dibromochloromethane	0.39	U	50.0	44.7		ug/L		89	70 - 130	9	30
Dichlorodifluoromethane	0.36	U J3	50.0	67.2	J3	ug/L		134	70 - 130	31	40
Ethylbenzene	0.20	U	50.0	53.5		ug/L		107	70 - 130	6	20
Isopropylbenzene	0.26	U	50.0	54.4		ug/L		109	70 - 130	6	30

Client: Tetra Tech, Inc.
Job ID: 670-27943-1
Project/Site: NASA KSC LC34 DPT

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 680-240853-E-10 MSD
Client Sample ID: Matrix Spike Duplicate
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 801650

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m,p-Xylenes	0.49	U	50.0	54.2		ug/L		108	70 - 130	5	30
Methyl acetate	3.2	U	100	83.9		ug/L		84	67 - 120	11	30
Methyl tert-butyl ether	0.81	U	50.0	46.0		ug/L		92	70 - 130	10	30
Methylene Chloride	3.2	U	50.0	52.6		ug/L		105	70 - 130	10	30
o-Xylene	0.26	U	50.0	53.6		ug/L		107	70 - 130	7	30
Styrene	0.27	U	50.0	53.3		ug/L		107	70 - 130	8	30
Tetrachloroethene	0.35	U	50.0	48.8		ug/L		98	70 - 130	7	30
Toluene	0.25	U	50.0	51.9		ug/L		104	70 - 130	7	30
trans-1,2-Dichloroethene	0.34	U	50.0	49.1		ug/L		98	70 - 130	6	30
trans-1,3-Dichloropropene	0.23	U	50.0	46.4		ug/L		93	70 - 130	9	30
Trichloroethene	0.20	U	50.0	50.2		ug/L		100	70 - 130	5	30
Trichlorofluoromethane	0.33	U	50.0	49.9		ug/L		100	63 - 142	29	30
Vinyl chloride	0.40	U J3	50.0	66.9	J3	ug/L		134	66 - 129	30	30
Xylenes, Total	0.23	U	100	108		ug/L		108	70 - 130	6	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 124*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*
Dibromofluoromethane (Surr)	*98*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

GC/MS VOA

Analysis Batch: 801496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-27943-1	LC34-DPT0951-008.0-20231002	Total/NA	Water	8260D	
MB 680-801496/7	Method Blank	Total/NA	Water	8260D	
LCS 680-801496/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-801496/4	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 801533

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-27943-17	LC34-DPT0953-034.0-20231002	Total/NA	Water	8260D	
670-27943-18	LC34-DPT0953-038.0-20231002	Total/NA	Water	8260D	
670-27943-19	LC34-DPT0954-008.0-20231003	Total/NA	Water	8260D	
670-27943-20	LC34-DPT0954-013.0-20231003	Total/NA	Water	8260D	
670-27943-21	LC34-DPT0954-018.0-20231003	Total/NA	Water	8260D	
670-27943-22	LC34-DPT0954-025.0-20231003	Total/NA	Water	8260D	
670-27943-23	LC34-DPT0954-034.0-20231003	Total/NA	Water	8260D	
670-27943-24	LC34-DPT0954-038.0-20231003	Total/NA	Water	8260D	
670-27943-25	LC34-DPT0955-008.0-20231003	Total/NA	Water	8260D	
670-27943-26	LC34-DPT0955-013.0-20231003	Total/NA	Water	8260D	
670-27943-27	LC34-DPT0955-018.0-20231003	Total/NA	Water	8260D	
670-27943-29	LC34-DPT0955-034.0-20231003	Total/NA	Water	8260D	
670-27943-30	LC34-DPT0955-038.0-20231003	Total/NA	Water	8260D	
670-27943-31	LC34-DPT0956-008.0-20231003	Total/NA	Water	8260D	
670-27943-32	LC34-DPT0956-013.0-20231003	Total/NA	Water	8260D	
670-27943-36	LC34-DPT0956-038.0-20231003	Total/NA	Water	8260D	
MB 680-801533/7	Method Blank	Total/NA	Water	8260D	
LCS 680-801533/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-801533/4	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 801537

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-27943-1	LC34-DPT0951-008.0-20231002	Total/NA	Water	8260D	
670-27943-2	LC34-DPT0951-013.0-20231002	Total/NA	Water	8260D	
670-27943-3	LC34-DPT0951-018.0-20231002	Total/NA	Water	8260D	
670-27943-4	LC34-DPT0951-025.0-20231002	Total/NA	Water	8260D	
670-27943-5	LC34-DPT0951-034.0-20231002	Total/NA	Water	8260D	
670-27943-6	LC34-DPT0951-038.0-20231002	Total/NA	Water	8260D	
670-27943-7	LC34-DPT0952-008.0-20231002	Total/NA	Water	8260D	
670-27943-8	LC34-DPT0952-013.0-20231002	Total/NA	Water	8260D	
670-27943-9	LC34-DPT0952-018.0-20231002	Total/NA	Water	8260D	
670-27943-10	LC34-DPT0952-025.0-20231002	Total/NA	Water	8260D	
670-27943-11	LC34-DPT0952-034.0-20231002	Total/NA	Water	8260D	
670-27943-12	LC34-DPT0952-038.0-20231002	Total/NA	Water	8260D	
670-27943-13	LC34-DPT0953-008.0-20231002	Total/NA	Water	8260D	
670-27943-14	LC34-DPT0953-013.0-20231002	Total/NA	Water	8260D	
670-27943-15	LC34-DPT0953-018.0-20231002	Total/NA	Water	8260D	
670-27943-16	LC34-DPT0953-025.0-20231002	Total/NA	Water	8260D	
670-27943-28	LC34-DPT0955-025.0-20231003	Total/NA	Water	8260D	
670-27943-33	LC34-DPT0956-018.0-20231003	Total/NA	Water	8260D	
670-27943-34	LC34-DPT0956-025.0-20231003	Total/NA	Water	8260D	
670-27943-35	LC34-DPT0956-034.0-20231003	Total/NA	Water	8260D	
MB 680-801537/7	Method Blank	Total/NA	Water	8260D	
LCS 680-801537/3	Lab Control Sample	Total/NA	Water	8260D	

GC/MS VOA (Continued)

Analysis Batch: 801537 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 680-801537/4	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 801650

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-27943-17	LC34-DPT0953-034.0-20231002	Total/NA	Water	8260D	
670-27943-20	LC34-DPT0954-013.0-20231003	Total/NA	Water	8260D	
670-27943-26	LC34-DPT0955-013.0-20231003	Total/NA	Water	8260D	
MB 680-801650/8	Method Blank	Total/NA	Water	8260D	
LCS 680-801650/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-801650/5	Lab Control Sample Dup	Total/NA	Water	8260D	
680-240853-E-10 MS	Matrix Spike	Total/NA	Water	8260D	
680-240853-E-10 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Client Sample ID: LC34-DPT0951-008.0-20231002
Lab Sample ID: 670-27943-1
Date Collected: 10/02/23 09:25
Matrix: Water
Date Received: 10/04/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	801496	P1C	EET SAV	10/07/23 17:57
Total/NA	Analysis	8260D		1	801537	P1C	EET SAV	10/08/23 15:59

Client Sample ID: LC34-DPT0951-013.0-20231002
Lab Sample ID: 670-27943-2
Date Collected: 10/02/23 09:40
Matrix: Water
Date Received: 10/04/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	801537	P1C	EET SAV	10/08/23 13:45

Client Sample ID: LC34-DPT0951-018.0-20231002
Lab Sample ID: 670-27943-3
Date Collected: 10/02/23 09:55
Matrix: Water
Date Received: 10/04/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	801537	P1C	EET SAV	10/08/23 14:05

Client Sample ID: LC34-DPT0951-025.0-20231002
Lab Sample ID: 670-27943-4
Date Collected: 10/02/23 10:10
Matrix: Water
Date Received: 10/04/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	801537	P1C	EET SAV	10/08/23 14:24

Client Sample ID: LC34-DPT0951-034.0-20231002
Lab Sample ID: 670-27943-5
Date Collected: 10/02/23 10:30
Matrix: Water
Date Received: 10/04/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		10	801537	P1C	EET SAV	10/08/23 17:59

Client Sample ID: LC34-DPT0951-038.0-20231002
Lab Sample ID: 670-27943-6
Date Collected: 10/02/23 10:50
Matrix: Water
Date Received: 10/04/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	801537	P1C	EET SAV	10/08/23 14:43

Client Sample ID: LC34-DPT0952-008.0-20231002
Lab Sample ID: 670-27943-7
Date Collected: 10/02/23 11:35
Matrix: Water
Date Received: 10/04/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	801537	P1C	EET SAV	10/08/23 15:02

Lab Chronicle

Client: Tetra Tech, Inc.
Job ID: 670-27943-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT0952-013.0-20231002
Lab Sample ID: 670-27943-8
Date Collected: 10/02/23 11:50
Matrix: Water
Date Received: 10/04/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	801537	P1C	EET SAV	10/08/23 15:21

Client Sample ID: LC34-DPT0952-018.0-20231002
Lab Sample ID: 670-27943-9
Date Collected: 10/02/23 12:05
Matrix: Water
Date Received: 10/04/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	801537	P1C	EET SAV	10/08/23 16:19

Client Sample ID: LC34-DPT0952-025.0-20231002
Lab Sample ID: 670-27943-10
Date Collected: 10/02/23 12:20
Matrix: Water
Date Received: 10/04/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		2	801537	P1C	EET SAV	10/08/23 17:38

Client Sample ID: LC34-DPT0952-034.0-20231002
Lab Sample ID: 670-27943-11
Date Collected: 10/02/23 12:40
Matrix: Water
Date Received: 10/04/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		25	801537	P1C	EET SAV	10/08/23 18:42

Client Sample ID: LC34-DPT0952-038.0-20231002
Lab Sample ID: 670-27943-12
Date Collected: 10/02/23 13:00
Matrix: Water
Date Received: 10/04/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	801537	P1C	EET SAV	10/08/23 16:38

Client Sample ID: LC34-DPT0953-008.0-20231002
Lab Sample ID: 670-27943-13
Date Collected: 10/02/23 13:50
Matrix: Water
Date Received: 10/04/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	801537	P1C	EET SAV	10/08/23 16:57

Client Sample ID: LC34-DPT0953-013.0-20231002
Lab Sample ID: 670-27943-14
Date Collected: 10/02/23 14:05
Matrix: Water
Date Received: 10/04/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	801537	P1C	EET SAV	10/08/23 15:40

Client Sample ID: LC34-DPT0953-018.0-20231002
Lab Sample ID: 670-27943-15
Date Collected: 10/02/23 14:20
Matrix: Water
Date Received: 10/04/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	801537	P1C	EET SAV	10/08/23 17:16

Client Sample ID: LC34-DPT0953-025.0-20231002
Lab Sample ID: 670-27943-16
Date Collected: 10/02/23 14:40
Matrix: Water
Date Received: 10/04/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		50	801537	P1C	EET SAV	10/08/23 19:24

Client Sample ID: LC34-DPT0953-034.0-20231002
Lab Sample ID: 670-27943-17
Date Collected: 10/02/23 15:00
Matrix: Water
Date Received: 10/04/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		50	801650	MLL	EET SAV	10/09/23 19:32
Total/NA	Analysis	8260D		25	801533	P1C	EET SAV	10/08/23 17:59

Client Sample ID: LC34-DPT0953-038.0-20231002
Lab Sample ID: 670-27943-18
Date Collected: 10/02/23 15:20
Matrix: Water
Date Received: 10/04/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	801533	P1C	EET SAV	10/08/23 13:56

Client Sample ID: LC34-DPT0954-008.0-20231003
Lab Sample ID: 670-27943-19
Date Collected: 10/03/23 08:00
Matrix: Water
Date Received: 10/04/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	801533	P1C	EET SAV	10/08/23 14:15

Client Sample ID: LC34-DPT0954-013.0-20231003
Lab Sample ID: 670-27943-20
Date Collected: 10/03/23 08:15
Matrix: Water
Date Received: 10/04/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		20	801650	MLL	EET SAV	10/09/23 18:16
Total/NA	Analysis	8260D		10	801533	P1C	EET SAV	10/08/23 17:17

Client Sample ID: LC34-DPT0954-018.0-20231003
Lab Sample ID: 670-27943-21
Date Collected: 10/03/23 08:30
Matrix: Water
Date Received: 10/04/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		100	801533	P1C	EET SAV	10/08/23 18:40

Lab Chronicle

Client: Tetra Tech, Inc.
Job ID: 670-27943-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT0954-025.0-20231003
Lab Sample ID: 670-27943-22
Date Collected: 10/03/23 08:50
Matrix: Water
Date Received: 10/04/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		10	801533	P1C	EET SAV	10/08/23 17:38

Client Sample ID: LC34-DPT0954-034.0-20231003
Lab Sample ID: 670-27943-23
Date Collected: 10/03/23 09:10
Matrix: Water
Date Received: 10/04/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	801533	P1C	EET SAV	10/08/23 14:34

Client Sample ID: LC34-DPT0954-038.0-20231003
Lab Sample ID: 670-27943-24
Date Collected: 10/03/23 09:30
Matrix: Water
Date Received: 10/04/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	801533	P1C	EET SAV	10/08/23 14:53

Client Sample ID: LC34-DPT0955-008.0-20231003
Lab Sample ID: 670-27943-25
Date Collected: 10/03/23 10:10
Matrix: Water
Date Received: 10/04/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	801533	P1C	EET SAV	10/08/23 15:13

Client Sample ID: LC34-DPT0955-013.0-20231003
Lab Sample ID: 670-27943-26
Date Collected: 10/03/23 10:25
Matrix: Water
Date Received: 10/04/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		20	801650	MLL	EET SAV	10/09/23 18:35
Total/NA	Analysis	8260D		5	801533	P1C	EET SAV	10/08/23 16:55

Client Sample ID: LC34-DPT0955-018.0-20231003
Lab Sample ID: 670-27943-27
Date Collected: 10/03/23 10:40
Matrix: Water
Date Received: 10/04/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		50	801533	P1C	EET SAV	10/08/23 18:20

Client Sample ID: LC34-DPT0955-025.0-20231003
Lab Sample ID: 670-27943-28
Date Collected: 10/03/23 11:00
Matrix: Water
Date Received: 10/04/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		500	801537	P1C	EET SAV	10/08/23 20:03

Client Sample ID: LC34-DPT0955-034.0-20231003 — **Lab Sample ID: 670-27943-29**
Date Collected: 10/03/23 11:20 — **Matrix: Water**
Date Received: 10/04/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		250	801533	P1C	EET SAV	10/08/23 19:00

Client Sample ID: LC34-DPT0955-038.0-20231003 — **Lab Sample ID: 670-27943-30**
Date Collected: 10/03/23 11:40 — **Matrix: Water**
Date Received: 10/04/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	801533	P1C	EET SAV	10/08/23 15:32

Client Sample ID: LC34-DPT0956-008.0-20231003 — **Lab Sample ID: 670-27943-31**
Date Collected: 10/03/23 12:20 — **Matrix: Water**
Date Received: 10/04/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		2	801533	P1C	EET SAV	10/08/23 16:13

Client Sample ID: LC34-DPT0956-013.0-20231003 — **Lab Sample ID: 670-27943-32**
Date Collected: 10/03/23 12:35 — **Matrix: Water**
Date Received: 10/04/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		2	801533	P1C	EET SAV	10/08/23 16:34

Client Sample ID: LC34-DPT0956-018.0-20231003 — **Lab Sample ID: 670-27943-33**
Date Collected: 10/03/23 12:50 — **Matrix: Water**
Date Received: 10/04/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		25	801537	P1C	EET SAV	10/08/23 19:03

Client Sample ID: LC34-DPT0956-025.0-20231003 — **Lab Sample ID: 670-27943-34**
Date Collected: 10/03/23 13:10 — **Matrix: Water**
Date Received: 10/04/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		100	801537	P1C	EET SAV	10/08/23 19:44

Client Sample ID: LC34-DPT0956-034.0-20231003 — **Lab Sample ID: 670-27943-35**
Date Collected: 10/03/23 13:30 — **Matrix: Water**
Date Received: 10/04/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		10	801537	P1C	EET SAV	10/08/23 18:20

Lab Chronicle

Client: Tetra Tech, Inc.
Job ID: 670-27943-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT0956-038.0-20231003
Lab Sample ID: 670-27943-36
Date Collected: 10/03/23 13:50
Matrix: Water
Date Received: 10/04/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	801533	P1C	EET SAV	10/08/23 15:51

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: Tetra Tech, Inc.
Job ID: 670-27943-1
Project/Site: NASA KSC LC34 DPT

Laboratory: Eurofins Savannah

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
	AFCEE	SAVLAB	
Alabama	State	41450	06-30-24
ANAB	Dept. of Defense ELAP	L2463	09-22-24
Arkansas DEQ	State	19-015-0	02-01-24
California	State	2939	06-30-24
Florida	NELAP	E87052	06-30-24
Georgia	State	E87052	06-30-24
Georgia (DW)	State	803	06-30-24
Guam	State	19-007R	04-17-24
Hawaii	State	<cert No.>	06-30-24
Illinois	NELAP	200022	11-30-23
Indiana	State	C-GA-02	06-30-24
Iowa	State	353	07-01-25
Kentucky (UST)	State	NA	06-30-24
Louisiana	NELAP	30690	06-30-24
Louisiana (All)	NELAP	30690	06-30-24
Louisiana (DW)	State	LA009	12-31-23
Maine	State	GA00006	09-25-24
Maryland	State	250	12-31-23
Massachusetts	State	M-GA006	06-30-24
Michigan	State	9925	06-30-24
Mississippi	State	<cert No.>	06-30-24
Nebraska	State	NE-OS-7-04	06-30-24
New Jersey	NELAP	GA769	06-30-24
New Mexico	State	GA00006	06-30-24
North Carolina (DW)	State	13701	07-31-24
North Carolina (WW/SW)	State	269	12-31-23
Pennsylvania	NELAP	68-00474	06-30-24
Puerto Rico	State	GA00006	01-01-24
South Carolina	State	98001	06-30-23 *
Tennessee	State	TN02961	06-30-24
Texas	NELAP	T1047004185	11-30-23
Texas	TCEQ Water Supply	T104704185	06-30-24
USDA	US Federal Programs	P330-18-00313	09-03-24
Virginia	NELAP	460161	06-14-24
Wyoming	State	8TMS-L	06-30-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Tetra Tech, Inc.
Job ID: 670-27943-1
Project/Site: NASA KSC LC34 DPT

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET SAV
5030B	Purge and Trap	SW846	EET SAV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Sample Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-27943-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
670-27943-1	LC34-DPT0951-008.0-20231002	Water	10/02/23 09:25	10/04/23 08:00
670-27943-2	LC34-DPT0951-013.0-20231002	Water	10/02/23 09:40	10/04/23 08:00
670-27943-3	LC34-DPT0951-018.0-20231002	Water	10/02/23 09:55	10/04/23 08:00
670-27943-4	LC34-DPT0951-025.0-20231002	Water	10/02/23 10:10	10/04/23 08:00
670-27943-5	LC34-DPT0951-034.0-20231002	Water	10/02/23 10:30	10/04/23 08:00
670-27943-6	LC34-DPT0951-038.0-20231002	Water	10/02/23 10:50	10/04/23 08:00
670-27943-7	LC34-DPT0952-008.0-20231002	Water	10/02/23 11:35	10/04/23 08:00
670-27943-8	LC34-DPT0952-013.0-20231002	Water	10/02/23 11:50	10/04/23 08:00
670-27943-9	LC34-DPT0952-018.0-20231002	Water	10/02/23 12:05	10/04/23 08:00
670-27943-10	LC34-DPT0952-025.0-20231002	Water	10/02/23 12:20	10/04/23 08:00
670-27943-11	LC34-DPT0952-034.0-20231002	Water	10/02/23 12:40	10/04/23 08:00
670-27943-12	LC34-DPT0952-038.0-20231002	Water	10/02/23 13:00	10/04/23 08:00
670-27943-13	LC34-DPT0953-008.0-20231002	Water	10/02/23 13:50	10/04/23 08:00
670-27943-14	LC34-DPT0953-013.0-20231002	Water	10/02/23 14:05	10/04/23 08:00
670-27943-15	LC34-DPT0953-018.0-20231002	Water	10/02/23 14:20	10/04/23 08:00
670-27943-16	LC34-DPT0953-025.0-20231002	Water	10/02/23 14:40	10/04/23 08:00
670-27943-17	LC34-DPT0953-034.0-20231002	Water	10/02/23 15:00	10/04/23 08:00
670-27943-18	LC34-DPT0953-038.0-20231002	Water	10/02/23 15:20	10/04/23 08:00
670-27943-19	LC34-DPT0954-008.0-20231003	Water	10/03/23 08:00	10/04/23 08:00
670-27943-20	LC34-DPT0954-013.0-20231003	Water	10/03/23 08:15	10/04/23 08:00
670-27943-21	LC34-DPT0954-018.0-20231003	Water	10/03/23 08:30	10/04/23 08:00
670-27943-22	LC34-DPT0954-025.0-20231003	Water	10/03/23 08:50	10/04/23 08:00
670-27943-23	LC34-DPT0954-034.0-20231003	Water	10/03/23 09:10	10/04/23 08:00
670-27943-24	LC34-DPT0954-038.0-20231003	Water	10/03/23 09:30	10/04/23 08:00
670-27943-25	LC34-DPT0955-008.0-20231003	Water	10/03/23 10:10	10/04/23 08:00
670-27943-26	LC34-DPT0955-013.0-20231003	Water	10/03/23 10:25	10/04/23 08:00
670-27943-27	LC34-DPT0955-018.0-20231003	Water	10/03/23 10:40	10/04/23 08:00
670-27943-28	LC34-DPT0955-025.0-20231003	Water	10/03/23 11:00	10/04/23 08:00
670-27943-29	LC34-DPT0955-034.0-20231003	Water	10/03/23 11:20	10/04/23 08:00
670-27943-30	LC34-DPT0955-038.0-20231003	Water	10/03/23 11:40	10/04/23 08:00
670-27943-31	LC34-DPT0956-008.0-20231003	Water	10/03/23 12:20	10/04/23 08:00
670-27943-32	LC34-DPT0956-013.0-20231003	Water	10/03/23 12:35	10/04/23 08:00
670-27943-33	LC34-DPT0956-018.0-20231003	Water	10/03/23 12:50	10/04/23 08:00
670-27943-34	LC34-DPT0956-025.0-20231003	Water	10/03/23 13:10	10/04/23 08:00
670-27943-35	LC34-DPT0956-034.0-20231003	Water	10/03/23 13:30	10/04/23 08:00
670-27943-36	LC34-DPT0956-038.0-20231003	Water	10/03/23 13:50	10/04/23 08:00

Tetra Tech, Inc. CHAIN OF CUSTODY | NUMBER No. 3753 | PAGE 1 OF 3

PROJECT NO: 112G08985	FACILITY: KSC-LC34	PROJECT MANAGER Mark Jonnet	PHONE NUMBER (412) 921-8622	LABORATORY NAME AND CONTACT: Eurofins — Kaitlin Dylnicki
SAMPLERS (SIGNATURE) -Chuck Sorden		FIELD OPERATIONS LEADER Chuck Sorden	PHONE NUMBER (321) 591-7580	ADDRESS 481 Newburyport Ave.
		CARRIER/WAYBILL NUMBER		CITY, STATE Altamonte Springs, FL

STANDARD TAT ☒
RUSH TAT ☐ ☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): G G
PRESERVATIVE USED: HCl/4°C 4°C
TYPE OF ANALYSIS: 8260D-(MOD) NASA LC34 Custom List; 8270D(MOD) NASA LC34 Custom List

DATE YEAR 2023	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS			COMMENTS
10/02	0925	LC34-DPT0951-008.0-20231002	99	6	10	GW	G	4	X	X	
	0940	LC34-DPT0951-013.0-20231002		11	15						
	0955	LC34-DPT0951-018.0-20231002		16	20						
	1010	LC34-DPT0951-025.0-20231002		23	27						
	1030	LC34-DPT0951-034.0-20231002		32	36						
	1050	LC34-DPT0951-038.0-20231002	99	36	40						
	1135	LC34-DPT0952-008.0-20231002	100	6	10						
	1150	LC34-DPT0952-013.0-20231002		11	15						
	1205	LC34-DPT0952-018.0-20231002		16	20						
	1220	LC34-DPT0952-025.0-20231002		23	27						
	1240	LC34-DPT0952-034.0-20231002		32	36						
	1300	LC34-DPT0952-038.0-20231002	100	36	40						
10/02	1350	LC34-DPT0953-008.0-20231002	101	6	10	GW	G	4	X	X	



	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	10/03/23	1430	1. RECEIVED BY		
2. RELINQUISHED BY			2. RECEIVED BY		
3. RELINQUISHED BY			3. RECEIVED BY	10/4	0800

COMMENTS 0.8 | 0.3 596

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY) 4/02R FORM NO. TT-N-8260

Tetra Tech, Inc.

CHAIN OF CUSTODY | NUMBER No. 3754 | PAGE 2 OF 3

PROJECT NO: 112G08985	FACILITY: KSC-LC34	PROJECT MANAGER Mark Jonnor	PHONE NUMBER (412) 921-8622	LABORATORY NAME AND CONTACT: Eurofins — Kaitlin Dylnicki
SAMPLERS (SIGNATURE) — Chuck Sorden		FIELD OPERATIONS LEADER Chuck Sorden	PHONE NUMBER (321) 591-7580	ADDRESS 481 Newburyport Ave.
		CARRIER/WAYBILL NUMBER		CITY, STATE Altamonte Springs, FL

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2023	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)										COMMENTS
									G	G									
									HCl/4°C	4°C									
									TYPE OF ANALYSIS: 624.1-(MOD) NASA LC34 Custom List	625.1-(MOD) NASA LC34 Custom List									
10/02	1405	LC34-DPT0953-013.0-20231002	101	11	15	GW	G	4	X	X									
↓	1420	LC34-DPT0953-018.0-20231002	↓	16	20	↓	↓	↓	↓	↓									
	1440	LC34-DPT0953-025.0-20231002		23	27														
	1500	LC34-DPT0953-034.0-20231002		32	36														
10/02	1520	LC34-DPT0953-038.0-20231002	101	36	40														
10/03	0800	LC34-DPT0954-008.0-20231003	04	6	10														
↓	0815	LC34-DPT0954-013.0-20231003	↓	11	15														
	0830	LC34-DPT0954-018.0-20231003		16	20														
	0850	LC34-DPT0954-025.0-20231003		23	27														
	0910	LC34-DPT0954-034.0-20231003	↓	32	36														
	0930	LC34-DPT0954-038.0-20231003	04	36	40														
↓	1010	LC34-DPT0955-008.0-20231003	11	6	10	↓	↓	↓	↓	↓									
10/03	1025	LC34-DPT0955-013.0-20231003	11	11	15	GW	G	4	X	X									

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	10/03/23	1430	1. RECEIVED BY		
2. RELINQUISHED BY			2. RECEIVED BY		
3. RELINQUISHED BY			3. RECEIVED BY	10/4	0800

COMMENTS: 0.8/0.3 596

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FORM NO. TT-N-1028 4/02R 10/23/2023

Tetra Tech, Inc.

CHAIN OF CUSTODY | NUMBER No. 3755 | PAGE 3 OF 3

PROJECT NO: 112G08985	FACILITY: KSC-LC34	PROJECT MANAGER Mark Jonnet	PHONE NUMBER (412) 921-8622	LABORATORY NAME AND CONTACT: Eurofins — Kaitlin Dylnicki
SAMPLERS (SIGNATURE) -Chuck Sorden		FIELD OPERATIONS LEADER Chuck Sorden	PHONE NUMBER (321) 591-7580	ADDRESS 481 Newburyport Ave.
		CARRIER/WAYBILL NUMBER		CITY, STATE Altamonte Springs, FL

STANDARD TAT ☒
RUSH TAT ☐ ☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE (YEAR 2023)	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)		COMMENTS
									G	G	
									PRESERVATIVE USED		HCl/4°C 4°C
									TYPE OF ANALYSIS		
									8260D-(MOD) NASA LC34 Custom List	8260D-(MOD) NASA LC34 Custom List	
10/03	1040	LC34-DPT0955-018.0-20231003	11	16	20	GW	G	4	X	X	
	1100	LC34-DPT0955-025.0-20231003	↓	23	27	↓	↓	↓	↓	↓	
	1120	LC34-DPT0955-034.0-20231003		32	36						
	1140	LC34-DPT0955-038.0-20231003	11	36	40						
	1220	LC34-DPT0956-008.0-20231003	18	6	10						
	1235	LC34-DPT0956-013.0-20231003	↑	11	15						
	1250	LC34-DPT0956-018.0-20231003		16	20						
	1310	LC34-DPT0956-025.0-20231003		23	27						
	1330	LC34-DPT0956-034.0-20231003	↓	32	36	↓	↓	↓	↓	↓	
10/03	1350	LC34-DPT0956-038.0-20231003	18	36	40	GW	G	4	X	X	

1. RELINQUISHED BY	DATE 10/03/23	TIME 1430	1. RECEIVED BY	DATE	TIME
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE 10/4	TIME 0800

COMMENTS 0.4/0-3

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R

596 FORM NO. TtNUS-001

Tetra Tech, Inc. CHAIN OF CUSTODY | NUMBER No. 3753 | PAGE 1 OF 3

PROJECT NO: 112G08985	FACILITY: KSC-LC34	PROJECT MANAGER Mark Jonnet	PHONE NUMBER (412) 921-8622	LABORATORY NAME AND CONTACT: Eurofins — Kaitlin Dylnicki
SAMPLERS (SIGNATURE) -Chuck Sorden		FIELD OPERATIONS LEADER Chuck Sorden	PHONE NUMBER (321) 591-7580	ADDRESS 481 Newburyport Ave.
		CARRIER/WAYBILL NUMBER		CITY, STATE Altamonte Springs, FL

STANDARD TAT ☒
RUSH TAT ☐ ☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): G G
PRESERVATIVE USED: HCl/4°C 4°C
TYPE OF ANALYSIS: 8260D-(MOD) NASA LC34 Custom List; 8260D(MOD) NASA LC34 Custom List

DATE YEAR 2023	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS			COMMENTS
10/02	0925	LC34-DPT0951-008.0-20231002	99	6	10	GW	G	4	X	X	
	0940	LC34-DPT0951-013.0-20231002		11	15						
	0955	LC34-DPT0951-018.0-20231002		16	20						
	1010	LC34-DPT0951-025.0-20231002		23	27						
	1030	LC34-DPT0951-034.0-20231002		32	36						
	1050	LC34-DPT0951-038.0-20231002	99	36	40						
	1135	LC34-DPT0952-008.0-20231002	100	6	10						
	1150	LC34-DPT0952-013.0-20231002		11	15						
	1205	LC34-DPT0952-018.0-20231002		16	20						
	1220	LC34-DPT0952-025.0-20231002		23	27						
	1240	LC34-DPT0952-034.0-20231002		32	36						
	1300	LC34-DPT0952-038.0-20231002	100	36	40						
10/02	1350	LC34-DPT0953-008.0-20231002	101	6	10	GW	G	4	X	X	

670-27943 Chain of Custody

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	10/03/23	1430	1. RECEIVED BY		
2. RELINQUISHED BY			2. RECEIVED BY		
3. RELINQUISHED BY			3. RECEIVED BY	10/4	0800

COMMENTS 0.8 | 0.3 596

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

FORM NO. TT-8260 4/02R

Tetra Tech, Inc.

CHAIN OF CUSTODY | NUMBER No. 3754 | PAGE 2 OF 3

PROJECT NO: 112G08985	FACILITY: KSC-LC34	PROJECT MANAGER Mark Jonnor	PHONE NUMBER (412) 921-8622	LABORATORY NAME AND CONTACT: Eurofins — Kaitlin Dylnicki
SAMPLERS (SIGNATURE) — Chuck Sorden		FIELD OPERATIONS LEADER Chuck Sorden	PHONE NUMBER (321) 591-7580	ADDRESS 481 Newburyport Ave.
		CARRIER/WAYBILL NUMBER		CITY, STATE Altamonte Springs, FL

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2023	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)										COMMENTS
									G	G									
									HCl/4°C	4°C									
									8260D-(MOD) NASA LC34 Custom List	8260D-(MOD) NASA LC34 Custom List									
10/02	1405	LC34-DPT0953-013.0-20231002	101	11	15	GW	G	4	X	X									
↓	1420	LC34-DPT0953-018.0-20231002	↓	16	20	↓	↓	↓	↓	↓									
	1440	LC34-DPT0953-025.0-20231002		23	27														
	1500	LC34-DPT0953-034.0-20231002		32	36														
10/02	1520	LC34-DPT0953-038.0-20231002	101	36	40														
10/03	0800	LC34-DPT0954-008.0-20231003	04	6	10														
↓	0815	LC34-DPT0954-013.0-20231003	↓	11	15														
	0830	LC34-DPT0954-018.0-20231003		16	20														
	0850	LC34-DPT0954-025.0-20231003		23	27														
	0910	LC34-DPT0954-034.0-20231003	↓	32	36														
	0930	LC34-DPT0954-038.0-20231003	04	36	40														
↓	1010	LC34-DPT0956-008.0-20231003	11	6	10	↓	↓	↓	↓	↓									
10/03	1025	LC34-DPT0955-013.0-20231003	11	11	15	GW	G	4	X	X									

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	10/03/23	1430	1. RECEIVED BY		
2. RELINQUISHED BY			2. RECEIVED BY		
3. RELINQUISHED BY			3. RECEIVED BY	10/4	0800

COMMENTS 0.8/0.3 596

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FORM NO. TT-N-2536 4/02R 10/23/2023

Tetra Tech, Inc.

CHAIN OF CUSTODY | NUMBER No. 3755 | PAGE 3 OF 3

PROJECT NO: 112G08985	FACILITY: KSC-LC34	PROJECT MANAGER Mark Jonnet	PHONE NUMBER (412) 921-8622	LABORATORY NAME AND CONTACT: Eurofins — Kaitlin Dylnicki
SAMPLERS (SIGNATURE) -Chuck Sorden		FIELD OPERATIONS LEADER Chuck Sorden	PHONE NUMBER (321) 591-7580	ADDRESS 481 Newburyport Ave.
		CARRIER/WAYBILL NUMBER		CITY, STATE Altamonte Springs, FL

STANDARD TAT ☒
RUSH TAT ☐ ☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2023	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)										COMMENTS
									G	G									
									HCl/4°C	4°C									
									PRESERVATIVE USED										
									TYPE OF ANALYSIS: 8260D-(MOD) NASA LC34 Custom List	8260D-(MOD) NASA LC34 Custom List									
10/03	1040	LC34-DPT0955-018.0-20231003	11	16	20	GW	G	4	X	X									
	1100	LC34-DPT0955-025.0-20231003	↓	23	27	↓	↓	↓	↓	↓									
	1120	LC34-DPT0955-034.0-20231003		32	36														
	1140	LC34-DPT0955-038.0-20231003	11	36	40														
	1220	LC34-DPT0956-008.0-20231003	18	6	10														
	1235	LC34-DPT0956-013.0-20231003	↑	11	15														
	1250	LC34-DPT0956-018.0-20231003		16	20														
	1310	LC34-DPT0956-025.0-20231003		23	27														
	1330	LC34-DPT0956-034.0-20231003	↓	32	36	↓	↓	↓	↓	↓									
10/03	1350	LC34-DPT0956-038.0-20231003	18	36	40	GW	G	4	X	X									

1. RELINQUISHED BY	DATE 10/03/23	TIME 1430	1. RECEIVED BY	DATE	TIME
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE 10/4	TIME 0800

COMMENTS 0.4/0-3

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
596 FORM NO. TtNUS-001

Eurofins Orlando
481 Newburyport Avenue
Altamonte Springs, FL 32701
Phone: 407-339-5984 Fax: 407-260-6110

Chain of Custody Record

eurofins
Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Dylnicki, Kaitlin	Carrier Tracking No(s):	COC No: 670-16261.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: kaitlin.dylnicki@et.eurofinsus.com	State of Origin: Florida	Page: Page 1 of 4
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP - Florida		Job #: 670-27943-1
Address: 5102 LaRoche Avenue, ,	Due Date Requested: 10/16/2023			
City: Savannah	TAT Requested (days):			
State, Zip: GA, 31404				
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	PO #:			
Email:	WO #:			
Project Name: NASA KSC LC34	Project #: 67001156			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D/5030B (MOD) NASA LC34 Custom	8260D/5030B_UP (MOD) NASA LC34 Custom	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
LC34-DPT0951-008.0-20231002 (670-27943-1)	10/2/23	09:25 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0951-013.0-20231002 (670-27943-2)	10/2/23	09:40 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0951-018.0-20231002 (670-27943-3)	10/2/23	09:55 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0951-025.0-20231002 (670-27943-4)	10/2/23	10:10 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0951-034.0-20231002 (670-27943-5)	10/2/23	10:30 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0951-038.0-20231002 (670-27943-6)	10/2/23	10:50 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0952-008.0-20231002 (670-27943-7)	10/2/23	11:35 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0952-013.0-20231002 (670-27943-8)	10/2/23	11:50 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0952-018.0-20231002 (670-27943-9)	10/2/23	12:05 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)***
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	10/4 1500			10/5/23 09:43	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.4/3.2

Ver: 06/08/2021

Eurofins Orlando
481 Newburyport Avenue
Altamonte Springs, FL 32701
Phone: 407-339-5984 Fax: 407-260-6110

Chain of Custody Record

eurofins

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Dylnicki, Kaitlin	Carrier Tracking No(s):	COC No: 670-16261.4
Client Contact: Shipping/Receiving	Phone:	E-Mail: kaitlin.dylnicki@et.eurofinsus.com	State of Origin: Florida	Page: Page 4 of 4
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP - Florida		Job #: 670-27943-1
Address: 5102 LaRoche Avenue, ,	Due Date Requested: 10/16/2023			
City: Savannah	TAT Requested (days):			
State, Zip: GA, 31404				
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	PO #:			
Email:	WO #:			
Project Name: NASA KSC LC34	Project #: 67001156			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D/5030B (MOD) NASA LC34 Custom	8260D/5030B_UP (MOD) NASA LC34 Custom	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
LC34-DPT0955-025.0-20231003 (670-27943-28)	10/3/23	11:00 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0955-034.0-20231003 (670-27943-29)	10/3/23	11:02 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0955-038.0-20231003 (670-27943-30)	10/3/23	11:40 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0956-008.0-20231003 (670-27943-31)	10/3/23	12:20 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0956-013.0-20231003 (670-27943-32)	10/3/23	12:35 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0956-018.0-20231003 (670-27943-33)	10/3/23	12:50 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0956-025.0-20231003 (670-27943-34)	10/3/23	13:10 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0956-034.0-20231003 (670-27943-35)	10/3/23	13:30 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0956-038.0-20231003 (670-27943-36)	10/3/23	13:50 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP

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Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
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Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	10/4 1500			10/5/23 09:43	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.4/3.2

Ver: 06/08/2021

Eurofins Orlando
481 Newburyport Avenue
Altamonte Springs, FL 32701
Phone: 407-339-5984 Fax: 407-260-6110

Chain of Custody Record

eurofins
Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Dylnicki, Kaitlin	Carrier Tracking No(s):	COC No: 670-16261.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: kaitlin.dylnicki@et.eurofinsus.com	State of Origin: Florida	Page: Page 1 of 4
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP - Florida		Job #: 670-27943-1
Address: 5102 LaRoche Avenue, ,	Due Date Requested: 10/16/2023			
City: Savannah	TAT Requested (days):			
State, Zip: GA, 31404				
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	PO #:			
Email:	WO #:			
Project Name: NASA KSC LC34	Project #: 67001156			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D/5030B (MOD) NASA LC34 Custom	8260D/5030B_UP (MOD) NASA LC34 Custom	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
LC34-DPT0951-008.0-20231002 (670-27943-1)	10/2/23	09:25 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0951-013.0-20231002 (670-27943-2)	10/2/23	09:40 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0951-018.0-20231002 (670-27943-3)	10/2/23	09:55 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0951-025.0-20231002 (670-27943-4)	10/2/23	10:10 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0951-034.0-20231002 (670-27943-5)	10/2/23	10:30 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0951-038.0-20231002 (670-27943-6)	10/2/23	10:50 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0952-008.0-20231002 (670-27943-7)	10/2/23	11:35 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0952-013.0-20231002 (670-27943-8)	10/2/23	11:50 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0952-018.0-20231002 (670-27943-9)	10/2/23	12:05 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP

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Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	10/4 1500			10/5/23 09:43	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.4/3.2

Ver: 06/08/2021

Eurofins Orlando
481 Newburyport Avenue
Altamonte Springs, FL 32701
Phone: 407-339-5984 Fax: 407-260-6110

Chain of Custody Record

eurofins

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Dylnicki, Kaitlin	Carrier Tracking No(s):	COC No: 670-16261.4
Client Contact: Shipping/Receiving	Phone:	E-Mail: kaitlin.dylnicki@et.eurofinsus.com	State of Origin: Florida	Page: Page 4 of 4
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP - Florida		Job #: 670-27943-1
Address: 5102 LaRoche Avenue, ,	Due Date Requested: 10/16/2023			
City: Savannah	TAT Requested (days):			
State, Zip: GA, 31404				
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	PO #:			
Email:	WO #:			
Project Name: NASA KSC LC34	Project #: 67001156			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D/5030B (MOD) NASA LC34 Custom	8260D/5030B_UP (MOD) NASA LC34 Custom	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
LC34-DPT0955-025.0-20231003 (670-27943-28)	10/3/23	11:00 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0955-034.0-20231003 (670-27943-29)	10/3/23	11:02 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0955-038.0-20231003 (670-27943-30)	10/3/23	11:40 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0956-008.0-20231003 (670-27943-31)	10/3/23	12:20 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0956-013.0-20231003 (670-27943-32)	10/3/23	12:35 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0956-018.0-20231003 (670-27943-33)	10/3/23	12:50 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0956-025.0-20231003 (670-27943-34)	10/3/23	13:10 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0956-034.0-20231003 (670-27943-35)	10/3/23	13:30 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0956-038.0-20231003 (670-27943-36)	10/3/23	13:50 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	10/4 1500			10/5/23 09:43	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.4/3.2

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 670-27943-1

Login Number: 27943

List Number: 1

Creator: Hartley, Tyler

List Source: Eurofins Orlando

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 670-27943-1

Login Number: 27943
List Number: 2
Creator: Harley, Tynisha

List Source: Eurofins Savannah
List Creation: 10/05/23 02:21 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Mark Jonnet
Tetra Tech, Inc.
Foster Plaza 7
661 Anderson Drive
Suite 200
Pittsburgh, Pennsylvania 15220-2745

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JOB DESCRIPTION

NASA KSC LC34 DPT

JOB NUMBER

670-28030-1

Eurofins Orlando
481 Newburyport Avenue
Altamonte Springs FL 32701

See page two for job notes and contact information.

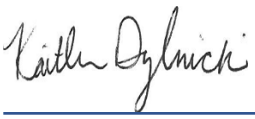
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Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization



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Authorized for release by
Kaitlin Dylnicki, Project Manager
kaitlin.dylnicki@et.eurofinsus.com
(407)339-5984

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Definitions/Glossary

Client: Tetra Tech, Inc.
Job ID: 670-28030-1
Project/Site: NASA KSC LC34 DPT

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U	Indicates that the compound was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 670-28030-1

Laboratory: Eurofins Orlando

Narrative

Job Narrative
Client: Tetra Tech
Client PM: Mark Jonnet
Project: NASA KSC LC34
Project Number: 112G08985
670-28030-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 10/5/2023 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.7°C

GC/MS VOA
Method 8260D: The following samples were diluted to bring the concentration of target analytes within the calibration range: LC34-DPT0957-018.0-20231003 (670-28030-3), LC34-DPT0957-025.0-20231003 (670-28030-4), LC34-DPT0957-038.0-20231003 (670-28030-6), LC34-DPT0958-025.0-20231004 (670-28030-10), LC34-DPT0958-034.0-20231004 (670-28030-11), LC34-DPT0958-038.0-20231004 (670-28030-12), LC34-DPT0959-018.0-20231004 (670-28030-15) and LC34-DPT0959-025.0-20231004 (670-28030-16). Elevated reporting limits (RLs) are provided.

Method 8260D: The continuing calibration verification (CCV) associated with batch 680-801776 recovered above the upper control limit for Chloroethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260D: The following samples were diluted to bring the concentration of target analytes within the calibration range: LC34-DPT0957-034.0-20231003 (670-28030-5), LC34-DPT0959-034.0-20231004 (670-28030-17) and LC34-DPT0960-025.0-20231004 (670-28030-22). Elevated reporting limits (RLs) are provided.

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-801823.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28030-1

Client Sample ID: LC34-DPT0957-008.0-20231003 — Lab Sample ID: 670-28030-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	73		1.0	0.25	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	1.1		1.0	0.34	ug/L	1		8260D	Total/NA
Vinyl chloride	24		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0957-013.0-20231003 — Lab Sample ID: 670-28030-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	77		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	140		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0957-018.0-20231003 — Lab Sample ID: 670-28030-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	84		2.0	0.50	ug/L	2		8260D	Total/NA
Vinyl chloride	290		2.0	0.80	ug/L	2		8260D	Total/NA

Client Sample ID: LC34-DPT0957-025.0-20231003 — Lab Sample ID: 670-28030-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
trans-1,2-Dichloroethene	34		5.0	1.7	ug/L	5		8260D	Total/NA
cis-1,2-Dichloroethene - DL	1600		10	2.5	ug/L	10		8260D	Total/NA
Vinyl chloride - DL	1200		10	4.0	ug/L	10		8260D	Total/NA

Client Sample ID: LC34-DPT0957-034.0-20231003 — Lab Sample ID: 670-28030-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	1.7	I	4.0	0.86	ug/L	2		8260D	Total/NA
trans-1,2-Dichloroethene	9.3		2.0	0.68	ug/L	2		8260D	Total/NA
cis-1,2-Dichloroethene - DL	350		50	13	ug/L	50		8260D	Total/NA
Vinyl chloride - DL	340		50	20	ug/L	50		8260D	Total/NA

Client Sample ID: LC34-DPT0957-038.0-20231003 — Lab Sample ID: 670-28030-6

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	1.1	I	2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.36	I	1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	0.40	I	1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0958-008.0-20231003 — Lab Sample ID: 670-28030-7

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	19		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	10		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0958-013.0-20231003 — Lab Sample ID: 670-28030-8

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	19		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	50		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0958-018.0-20231004 — Lab Sample ID: 670-28030-9

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	44		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	96		1.0	0.40	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Orlando

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28030-1

Client Sample ID: LC34-DPT0958-025.0-20231004 — Lab Sample ID: 670-28030-10

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	480		5.0	1.3	ug/L	5		8260D	Total/NA
trans-1,2-Dichloroethene	4.9	I	5.0	1.7	ug/L	5		8260D	Total/NA
Vinyl chloride	690		5.0	2.0	ug/L	5		8260D	Total/NA

Client Sample ID: LC34-DPT0958-034.0-20231004 — Lab Sample ID: 670-28030-11

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	120		25	6.3	ug/L	25		8260D	Total/NA
Vinyl chloride	3100		25	10	ug/L	25		8260D	Total/NA

Client Sample ID: LC34-DPT0958-038.0-20231004 — Lab Sample ID: 670-28030-12

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	40		10	2.5	ug/L	10		8260D	Total/NA
Vinyl chloride - DL	3200		25	10	ug/L	25		8260D	Total/NA

Client Sample ID: LC34-DPT0959-008.0-20231004 — Lab Sample ID: 670-28030-13

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	10		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	11		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0959-013.0-20231004 — Lab Sample ID: 670-28030-14

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	24		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	35		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0959-018.0-20231004 — Lab Sample ID: 670-28030-15

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	41		1.0	0.25	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	0.48	I	1.0	0.34	ug/L	1		8260D	Total/NA
Vinyl chloride	60		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0959-025.0-20231004 — Lab Sample ID: 670-28030-16

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	350		2.0	0.50	ug/L	2		8260D	Total/NA
trans-1,2-Dichloroethene	3.6		2.0	0.68	ug/L	2		8260D	Total/NA
Vinyl chloride	360		2.0	0.80	ug/L	2		8260D	Total/NA

Client Sample ID: LC34-DPT0959-034.0-20231004 — Lab Sample ID: 670-28030-17

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1600		25	6.3	ug/L	25		8260D	Total/NA
Vinyl chloride	820		25	10	ug/L	25		8260D	Total/NA

Client Sample ID: LC34-DPT0959-038.0-20231004 — Lab Sample ID: 670-28030-18

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	7.5	I	10	6.4	ug/L	1		8260D	Total/NA
Vinyl chloride	17		1.0	0.40	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene - DL	240		25	6.3	ug/L	25		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Orlando

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28030-1

Client Sample ID: LC34-DPT0960-008.0-20231004 — Lab Sample ID: 670-28030-19

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.4		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	6.5		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0960-013.0-20231004 — Lab Sample ID: 670-28030-20

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	4.4		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	44		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0960-018.0-20231004 — Lab Sample ID: 670-28030-21

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	22		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	41		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0960-025.0-20231004 — Lab Sample ID: 670-28030-22

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	930		25	6.3	ug/L	25		8260D	Total/NA
trans-1,2-Dichloroethene	9.1	I	25	8.5	ug/L	25		8260D	Total/NA
Vinyl chloride	1800		25	10	ug/L	25		8260D	Total/NA

Client Sample ID: LC34-DPT0960-034.0-20231004 — Lab Sample ID: 670-28030-23

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.77	I	2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	1.6		1.0	0.25	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	2.5		1.0	0.34	ug/L	1		8260D	Total/NA
Vinyl chloride - DL	3600		25	10	ug/L	25		8260D	Total/NA

Client Sample ID: LC34-DPT0960-038.0-20231004 — Lab Sample ID: 670-28030-24

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	1.8	I	2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	24		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride - DL	2300		25	10	ug/L	25		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Tetra Tech, Inc.
Job ID: 670-28030-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT0957-008.0-20231003
Lab Sample ID: 670-28030-1
Date Collected: 10/03/23 14:30
Matrix: Water
Date Received: 10/05/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/09/23 11:33	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/09/23 11:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/09/23 11:33	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/09/23 11:33	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/09/23 11:33	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/09/23 11:33	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/09/23 11:33	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/09/23 11:33	1
1,2-Dibromoethane (EDB)	0.33	U	2.0	0.33	ug/L			10/09/23 11:33	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 11:33	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/09/23 11:33	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/09/23 11:33	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 11:33	1
1,4-Dichlorobenzene	0.31	U	2.0	0.31	ug/L			10/09/23 11:33	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/09/23 11:33	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/09/23 11:33	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/09/23 11:33	1
Acetone	3.7	U	10	3.7	ug/L			10/09/23 11:33	1
Benzene	0.27	U	1.0	0.27	ug/L			10/09/23 11:33	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/09/23 11:33	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/09/23 11:33	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/09/23 11:33	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/09/23 11:33	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/09/23 11:33	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/09/23 11:33	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/09/23 11:33	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/09/23 11:33	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/09/23 11:33	1
cis-1,2-Dichloroethene	**73**		1.0	0.25	ug/L			10/09/23 11:33	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/09/23 11:33	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/09/23 11:33	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/09/23 11:33	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/09/23 11:33	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/09/23 11:33	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/09/23 11:33	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/09/23 11:33	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/09/23 11:33	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/09/23 11:33	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/09/23 11:33	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/09/23 11:33	1
Styrene	0.27	U	1.0	0.27	ug/L			10/09/23 11:33	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/09/23 11:33	1
Toluene	0.25	U	1.0	0.25	ug/L			10/09/23 11:33	1
trans-1,2-Dichloroethene	**1.1**		1.0	0.34	ug/L			10/09/23 11:33	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/09/23 11:33	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/09/23 11:33	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/09/23 11:33	1
Vinyl chloride	**24**		1.0	0.40	ug/L			10/09/23 11:33	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/09/23 11:33	1

Client Sample ID: LC34-DPT0957-008.0-20231003

Lab Sample ID: 670-28030-1

Date Collected: 10/03/23 14:30

Matrix: Water

Date Received: 10/05/23 08:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	83		60 - 124		10/09/23 11:33	1
4-Bromofluorobenzene (Surr)	106		70 - 130		10/09/23 11:33	1
Dibromofluoromethane (Surr)	97		70 - 130		10/09/23 11:33	1
Toluene-d8 (Surr)	99		70 - 130		10/09/23 11:33	1

Client Sample ID: LC34-DPT0957-013.0-20231003

Lab Sample ID: 670-28030-2

Date Collected: 10/03/23 14:45

Matrix: Water

Date Received: 10/05/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/09/23 11:52	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/09/23 11:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/09/23 11:52	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/09/23 11:52	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/09/23 11:52	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/09/23 11:52	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/09/23 11:52	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/09/23 11:52	1
1,2-Dibromoethane (EDB)	0.33	U	2.0	0.33	ug/L			10/09/23 11:52	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 11:52	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/09/23 11:52	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/09/23 11:52	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 11:52	1
1,4-Dichlorobenzene	0.31	U	2.0	0.31	ug/L			10/09/23 11:52	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/09/23 11:52	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/09/23 11:52	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/09/23 11:52	1
Acetone	3.7	U	10	3.7	ug/L			10/09/23 11:52	1
Benzene	0.27	U	1.0	0.27	ug/L			10/09/23 11:52	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/09/23 11:52	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/09/23 11:52	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/09/23 11:52	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/09/23 11:52	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/09/23 11:52	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/09/23 11:52	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/09/23 11:52	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/09/23 11:52	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/09/23 11:52	1
cis-1,2-Dichloroethene	**77**		1.0	0.25	ug/L			10/09/23 11:52	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/09/23 11:52	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/09/23 11:52	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/09/23 11:52	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/09/23 11:52	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/09/23 11:52	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/09/23 11:52	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/09/23 11:52	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/09/23 11:52	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/09/23 11:52	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/09/23 11:52	1

Client Sample ID: LC34-DPT0957-013.0-20231003
Lab Sample ID: 670-28030-2

Date Collected: 10/03/23 14:45
Matrix: Water
Date Received: 10/05/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	0.26	U	1.0	0.26	ug/L			10/09/23 11:52	1
Styrene	0.27	U	1.0	0.27	ug/L			10/09/23 11:52	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/09/23 11:52	1
Toluene	0.25	U	1.0	0.25	ug/L			10/09/23 11:52	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/09/23 11:52	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/09/23 11:52	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/09/23 11:52	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/09/23 11:52	1
Vinyl chloride	**140**		1.0	0.40	ug/L			10/09/23 11:52	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/09/23 11:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*85*		*60 - 124*		*10/09/23 11:52*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*10/09/23 11:52*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*10/09/23 11:52*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/09/23 11:52*	*1*

Client Sample ID: LC34-DPT0957-018.0-20231003
Lab Sample ID: 670-28030-3

Date Collected: 10/03/23 15:00
Matrix: Water
Date Received: 10/05/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.42	U	2.0	0.42	ug/L			10/09/23 22:11	2
1,1,2,2-Tetrachloroethane	0.80	U	2.0	0.80	ug/L			10/09/23 22:11	2
1,1,2-Trichloro-1,2,2-trifluoroethane	0.46	U	2.0	0.46	ug/L			10/09/23 22:11	2
1,1,2-Trichloroethane	0.64	U	2.0	0.64	ug/L			10/09/23 22:11	2
1,1-Dichloroethane	0.66	U	2.0	0.66	ug/L			10/09/23 22:11	2
1,1-Dichloroethene	0.66	U	2.0	0.66	ug/L			10/09/23 22:11	2
1,2,4-Trichlorobenzene	1.1	U	10	1.1	ug/L			10/09/23 22:11	2
1,2-Dibromo-3-Chloropropane	3.6	U	10	3.6	ug/L			10/09/23 22:11	2
1,2-Dibromoethane (EDB)	0.66	U	2.0	0.66	ug/L			10/09/23 22:11	2
1,2-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/09/23 22:11	2
1,2-Dichloroethane	0.50	U	2.0	0.50	ug/L			10/09/23 22:11	2
1,2-Dichloropropane	0.44	U	2.0	0.44	ug/L			10/09/23 22:11	2
1,3-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/09/23 22:11	2
1,4-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/09/23 22:11	2
2-Butanone (MEK)	13	U	20	13	ug/L			10/09/23 22:11	2
2-Hexanone	6.4	U	20	6.4	ug/L			10/09/23 22:11	2
4-Methyl-2-pentanone	5.4	U	20	5.4	ug/L			10/09/23 22:11	2
Acetone	7.4	U	20	7.4	ug/L			10/09/23 22:11	2
Benzene	0.54	U	2.0	0.54	ug/L			10/09/23 22:11	2
Bromodichloromethane	0.50	U	2.0	0.50	ug/L			10/09/23 22:11	2
Bromoform	1.2	U	2.0	1.2	ug/L			10/09/23 22:11	2
Bromomethane	7.4	U	10	7.4	ug/L			10/09/23 22:11	2
Carbon disulfide	0.86	U	4.0	0.86	ug/L			10/09/23 22:11	2
Carbon tetrachloride	0.60	U	2.0	0.60	ug/L			10/09/23 22:11	2
Chlorobenzene	0.30	U	2.0	0.30	ug/L			10/09/23 22:11	2
Chloroethane	9.2	U	10	9.2	ug/L			10/09/23 22:11	2
Chloroform	0.54	U	2.0	0.54	ug/L			10/09/23 22:11	2

Client Sample ID: LC34-DPT0957-018.0-20231003
Lab Sample ID: 670-28030-3

Date Collected: 10/03/23 15:00
Matrix: Water
Date Received: 10/05/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	1.1	U	2.0	1.1	ug/L			10/09/23 22:11	2
cis-1,2-Dichloroethene	**84**		2.0	0.50	ug/L			10/09/23 22:11	2
cis-1,3-Dichloropropene	0.52	U	2.0	0.52	ug/L			10/09/23 22:11	2
Cyclohexane	0.56	U	2.0	0.56	ug/L			10/09/23 22:11	2
Dibromochloromethane	0.78	U	2.0	0.78	ug/L			10/09/23 22:11	2
Dichlorodifluoromethane	0.72	U	2.0	0.72	ug/L			10/09/23 22:11	2
Ethylbenzene	0.40	U	2.0	0.40	ug/L			10/09/23 22:11	2
Isopropylbenzene	0.52	U	2.0	0.52	ug/L			10/09/23 22:11	2
m,p-Xylenes	0.98	U	2.0	0.98	ug/L			10/09/23 22:11	2
Methyl acetate	6.4	U	10	6.4	ug/L			10/09/23 22:11	2
Methyl tert-butyl ether	1.6	U	10	1.6	ug/L			10/09/23 22:11	2
Methylene Chloride	6.4	U	10	6.4	ug/L			10/09/23 22:11	2
o-Xylene	0.52	U	2.0	0.52	ug/L			10/09/23 22:11	2
Styrene	0.54	U	2.0	0.54	ug/L			10/09/23 22:11	2
Tetrachloroethene	0.70	U	2.0	0.70	ug/L			10/09/23 22:11	2
Toluene	0.50	U	2.0	0.50	ug/L			10/09/23 22:11	2
trans-1,2-Dichloroethene	0.68	U	2.0	0.68	ug/L			10/09/23 22:11	2
trans-1,3-Dichloropropene	0.46	U	2.0	0.46	ug/L			10/09/23 22:11	2
Trichloroethene	0.40	U	2.0	0.40	ug/L			10/09/23 22:11	2
Trichlorofluoromethane	0.66	U	2.0	0.66	ug/L			10/09/23 22:11	2
Vinyl chloride	**290**		2.0	0.80	ug/L			10/09/23 22:11	2
Xylenes, Total	0.46	U	2.0	0.46	ug/L			10/09/23 22:11	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*60 - 124*		*10/09/23 22:11*	*2*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*10/09/23 22:11*	*2*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*10/09/23 22:11*	*2*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/09/23 22:11*	*2*

Client Sample ID: LC34-DPT0957-025.0-20231003
Lab Sample ID: 670-28030-4

Date Collected: 10/03/23 15:20
Matrix: Water
Date Received: 10/05/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	5.0	1.1	ug/L			10/09/23 15:26	5
1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	ug/L			10/09/23 15:26	5
1,1,2-Trichloro-1,2,2-trifluoroethane	1.2	U	5.0	1.2	ug/L			10/09/23 15:26	5
1,1,2-Trichloroethane	1.6	U	5.0	1.6	ug/L			10/09/23 15:26	5
1,1-Dichloroethane	1.7	U	5.0	1.7	ug/L			10/09/23 15:26	5
1,1-Dichloroethene	1.7	U	5.0	1.7	ug/L			10/09/23 15:26	5
1,2,4-Trichlorobenzene	2.7	U	25	2.7	ug/L			10/09/23 15:26	5
1,2-Dibromo-3-Chloropropane	9.0	U	25	9.0	ug/L			10/09/23 15:26	5
1,2-Dibromoethane (EDB)	1.7	U	10	1.7	ug/L			10/09/23 15:26	5
1,2-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/09/23 15:26	5
1,2-Dichloroethane	1.3	U	5.0	1.3	ug/L			10/09/23 15:26	5
1,2-Dichloropropane	1.1	U	5.0	1.1	ug/L			10/09/23 15:26	5
1,3-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/09/23 15:26	5
1,4-Dichlorobenzene	1.6	U	10	1.6	ug/L			10/09/23 15:26	5
2-Butanone (MEK)	32	U	50	32	ug/L			10/09/23 15:26	5

Client Sample ID: LC34-DPT0957-025.0-20231003
Date Collected: 10/03/23 15:20
Date Received: 10/05/23 08:00

Lab Sample ID: 670-28030-4
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	16	U	50	16	ug/L			10/09/23 15:26	5
4-Methyl-2-pentanone	14	U	50	14	ug/L			10/09/23 15:26	5
Acetone	19	U	50	19	ug/L			10/09/23 15:26	5
Benzene	1.4	U	5.0	1.4	ug/L			10/09/23 15:26	5
Bromodichloromethane	1.3	U	5.0	1.3	ug/L			10/09/23 15:26	5
Bromoform	3.0	U	5.0	3.0	ug/L			10/09/23 15:26	5
Bromomethane	19	U	25	19	ug/L			10/09/23 15:26	5
Carbon disulfide	2.2	U	10	2.2	ug/L			10/09/23 15:26	5
Carbon tetrachloride	1.5	U	5.0	1.5	ug/L			10/09/23 15:26	5
Chlorobenzene	0.75	U	5.0	0.75	ug/L			10/09/23 15:26	5
Chloroethane	23	U	25	23	ug/L			10/09/23 15:26	5
Chloroform	1.4	U	5.0	1.4	ug/L			10/09/23 15:26	5
Chloromethane	2.7	U	5.0	2.7	ug/L			10/09/23 15:26	5
cis-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			10/09/23 15:26	5
Cyclohexane	1.4	U	5.0	1.4	ug/L			10/09/23 15:26	5
Dibromochloromethane	2.0	U	5.0	2.0	ug/L			10/09/23 15:26	5
Dichlorodifluoromethane	1.8	U	5.0	1.8	ug/L			10/09/23 15:26	5
Ethylbenzene	1.0	U	5.0	1.0	ug/L			10/09/23 15:26	5
Isopropylbenzene	1.3	U	5.0	1.3	ug/L			10/09/23 15:26	5
m,p-Xylenes	2.5	U	5.0	2.5	ug/L			10/09/23 15:26	5
Methyl acetate	16	U	25	16	ug/L			10/09/23 15:26	5
Methyl tert-butyl ether	4.1	U	25	4.1	ug/L			10/09/23 15:26	5
Methylene Chloride	16	U	25	16	ug/L			10/09/23 15:26	5
o-Xylene	1.3	U	5.0	1.3	ug/L			10/09/23 15:26	5
Styrene	1.4	U	5.0	1.4	ug/L			10/09/23 15:26	5
Tetrachloroethene	1.8	U	5.0	1.8	ug/L			10/09/23 15:26	5
Toluene	1.3	U	5.0	1.3	ug/L			10/09/23 15:26	5
trans-1,2-Dichloroethene	**34**		5.0	1.7	ug/L			10/09/23 15:26	5
trans-1,3-Dichloropropene	1.2	U	5.0	1.2	ug/L			10/09/23 15:26	5
Trichloroethene	1.0	U	5.0	1.0	ug/L			10/09/23 15:26	5
Trichlorofluoromethane	1.7	U	5.0	1.7	ug/L			10/09/23 15:26	5
Xylenes, Total	1.2	U	5.0	1.2	ug/L			10/09/23 15:26	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*60 - 124*		*10/09/23 15:26*	*5*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*10/09/23 15:26*	*5*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*10/09/23 15:26*	*5*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/09/23 15:26*	*5*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**1600**		10	2.5	ug/L			10/09/23 22:54	10
Vinyl chloride	**1200**		10	4.0	ug/L			10/09/23 22:54	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*		*10/09/23 22:54*	*10*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*10/09/23 22:54*	*10*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*10/09/23 22:54*	*10*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/09/23 22:54*	*10*

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28030-1

Client Sample ID: LC34-DPT0957-034.0-20231003
Date Collected: 10/03/23 15:40
Date Received: 10/05/23 08:00

Lab Sample ID: 670-28030-5
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.42	U	2.0	0.42	ug/L			10/09/23 22:33	2
1,1,2,2-Tetrachloroethane	0.80	U	2.0	0.80	ug/L			10/09/23 22:33	2
1,1,2-Trichloro-1,2,2-trifluoroethane	0.46	U	2.0	0.46	ug/L			10/09/23 22:33	2
1,1,2-Trichloroethane	0.64	U	2.0	0.64	ug/L			10/09/23 22:33	2
1,1-Dichloroethane	0.66	U	2.0	0.66	ug/L			10/09/23 22:33	2
1,1-Dichloroethene	0.66	U	2.0	0.66	ug/L			10/09/23 22:33	2
1,2,4-Trichlorobenzene	1.1	U	10	1.1	ug/L			10/09/23 22:33	2
1,2-Dibromo-3-Chloropropane	3.6	U	10	3.6	ug/L			10/09/23 22:33	2
1,2-Dibromoethane (EDB)	0.66	U	2.0	0.66	ug/L			10/09/23 22:33	2
1,2-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/09/23 22:33	2
1,2-Dichloroethane	0.50	U	2.0	0.50	ug/L			10/09/23 22:33	2
1,2-Dichloropropane	0.44	U	2.0	0.44	ug/L			10/09/23 22:33	2
1,3-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/09/23 22:33	2
1,4-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/09/23 22:33	2
2-Butanone (MEK)	13	U	20	13	ug/L			10/09/23 22:33	2
2-Hexanone	6.4	U	20	6.4	ug/L			10/09/23 22:33	2
4-Methyl-2-pentanone	5.4	U	20	5.4	ug/L			10/09/23 22:33	2
Acetone	7.4	U	20	7.4	ug/L			10/09/23 22:33	2
Benzene	0.54	U	2.0	0.54	ug/L			10/09/23 22:33	2
Bromodichloromethane	0.50	U	2.0	0.50	ug/L			10/09/23 22:33	2
Bromoform	1.2	U	2.0	1.2	ug/L			10/09/23 22:33	2
Bromomethane	7.4	U	10	7.4	ug/L			10/09/23 22:33	2
Carbon disulfide	**1.7**	**I**	4.0	0.86	ug/L			10/09/23 22:33	2
Carbon tetrachloride	0.60	U	2.0	0.60	ug/L			10/09/23 22:33	2
Chlorobenzene	0.30	U	2.0	0.30	ug/L			10/09/23 22:33	2
Chloroethane	9.2	U	10	9.2	ug/L			10/09/23 22:33	2
Chloroform	0.54	U	2.0	0.54	ug/L			10/09/23 22:33	2
Chloromethane	1.1	U	2.0	1.1	ug/L			10/09/23 22:33	2
cis-1,3-Dichloropropene	0.52	U	2.0	0.52	ug/L			10/09/23 22:33	2
Cyclohexane	0.56	U	2.0	0.56	ug/L			10/09/23 22:33	2
Dibromochloromethane	0.78	U	2.0	0.78	ug/L			10/09/23 22:33	2
Dichlorodifluoromethane	0.72	U	2.0	0.72	ug/L			10/09/23 22:33	2
Ethylbenzene	0.40	U	2.0	0.40	ug/L			10/09/23 22:33	2
Isopropylbenzene	0.52	U	2.0	0.52	ug/L			10/09/23 22:33	2
m,p-Xylenes	0.98	U	2.0	0.98	ug/L			10/09/23 22:33	2
Methyl acetate	6.4	U	10	6.4	ug/L			10/09/23 22:33	2
Methyl tert-butyl ether	1.6	U	10	1.6	ug/L			10/09/23 22:33	2
Methylene Chloride	6.4	U	10	6.4	ug/L			10/09/23 22:33	2
o-Xylene	0.52	U	2.0	0.52	ug/L			10/09/23 22:33	2
Styrene	0.54	U	2.0	0.54	ug/L			10/09/23 22:33	2
Tetrachloroethene	0.70	U	2.0	0.70	ug/L			10/09/23 22:33	2
Toluene	0.50	U	2.0	0.50	ug/L			10/09/23 22:33	2
trans-1,2-Dichloroethene	**9.3**		2.0	0.68	ug/L			10/09/23 22:33	2
trans-1,3-Dichloropropene	0.46	U	2.0	0.46	ug/L			10/09/23 22:33	2
Trichloroethene	0.40	U	2.0	0.40	ug/L			10/09/23 22:33	2
Trichlorofluoromethane	0.66	U	2.0	0.66	ug/L			10/09/23 22:33	2
Xylenes, Total	0.46	U	2.0	0.46	ug/L			10/09/23 22:33	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*60 - 124*		*10/09/23 22:33*	*2*

Client Sample ID: LC34-DPT0957-034.0-20231003
Lab Sample ID: 670-28030-5

Date Collected: 10/03/23 15:40
Matrix: Water
Date Received: 10/05/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*10/09/23 22:33*	*2*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*10/09/23 22:33*	*2*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/09/23 22:33*	*2*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**350**		50	13	ug/L			10/09/23 15:48	50
Vinyl chloride	**340**		50	20	ug/L			10/09/23 15:48	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*60 - 124*		*10/09/23 15:48*	*50*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/09/23 15:48*	*50*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*10/09/23 15:48*	*50*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/09/23 15:48*	*50*

Client Sample ID: LC34-DPT0957-038.0-20231003
Lab Sample ID: 670-28030-6

Date Collected: 10/03/23 16:00
Matrix: Water
Date Received: 10/05/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/09/23 21:31	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/09/23 21:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/09/23 21:31	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/09/23 21:31	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/09/23 21:31	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/09/23 21:31	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/09/23 21:31	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/09/23 21:31	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/09/23 21:31	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 21:31	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/09/23 21:31	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/09/23 21:31	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 21:31	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 21:31	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/09/23 21:31	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/09/23 21:31	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/09/23 21:31	1
Acetone	3.7	U	10	3.7	ug/L			10/09/23 21:31	1
Benzene	0.27	U	1.0	0.27	ug/L			10/09/23 21:31	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/09/23 21:31	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/09/23 21:31	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/09/23 21:31	1
Carbon disulfide	**1.1**	**I**	2.0	0.43	ug/L			10/09/23 21:31	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/09/23 21:31	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/09/23 21:31	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/09/23 21:31	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/09/23 21:31	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/09/23 21:31	1
cis-1,2-Dichloroethene	**0.36**	**I**	1.0	0.25	ug/L			10/09/23 21:31	1

Client Sample ID: LC34-DPT0957-038.0-20231003
Lab Sample ID: 670-28030-6

Date Collected: 10/03/23 16:00
Matrix: Water
Date Received: 10/05/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/09/23 21:31	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/09/23 21:31	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/09/23 21:31	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/09/23 21:31	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/09/23 21:31	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/09/23 21:31	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/09/23 21:31	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/09/23 21:31	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/09/23 21:31	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/09/23 21:31	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/09/23 21:31	1
Styrene	0.27	U	1.0	0.27	ug/L			10/09/23 21:31	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/09/23 21:31	1
Toluene	0.25	U	1.0	0.25	ug/L			10/09/23 21:31	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/09/23 21:31	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/09/23 21:31	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/09/23 21:31	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/09/23 21:31	1
Vinyl chloride	**0.40**	**I**	1.0	0.40	ug/L			10/09/23 21:31	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/09/23 21:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*60 - 124*		*10/09/23 21:31*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*10/09/23 21:31*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*10/09/23 21:31*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/09/23 21:31*	*1*

Client Sample ID: LC34-DPT0958-008.0-20231003
Lab Sample ID: 670-28030-7

Date Collected: 10/03/23 16:35
Matrix: Water
Date Received: 10/05/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/09/23 12:11	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/09/23 12:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/09/23 12:11	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/09/23 12:11	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/09/23 12:11	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/09/23 12:11	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/09/23 12:11	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/09/23 12:11	1
1,2-Dibromoethane (EDB)	0.33	U	2.0	0.33	ug/L			10/09/23 12:11	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 12:11	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/09/23 12:11	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/09/23 12:11	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 12:11	1
1,4-Dichlorobenzene	0.31	U	2.0	0.31	ug/L			10/09/23 12:11	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/09/23 12:11	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/09/23 12:11	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/09/23 12:11	1

Client Sample ID: LC34-DPT0958-008.0-20231003
Lab Sample ID: 670-28030-7

Date Collected: 10/03/23 16:35
Matrix: Water
Date Received: 10/05/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	3.7	U	10	3.7	ug/L			10/09/23 12:11	1
Benzene	0.27	U	1.0	0.27	ug/L			10/09/23 12:11	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/09/23 12:11	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/09/23 12:11	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/09/23 12:11	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/09/23 12:11	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/09/23 12:11	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/09/23 12:11	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/09/23 12:11	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/09/23 12:11	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/09/23 12:11	1
cis-1,2-Dichloroethene	**19**		1.0	0.25	ug/L			10/09/23 12:11	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/09/23 12:11	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/09/23 12:11	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/09/23 12:11	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/09/23 12:11	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/09/23 12:11	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/09/23 12:11	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/09/23 12:11	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/09/23 12:11	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/09/23 12:11	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/09/23 12:11	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/09/23 12:11	1
Styrene	0.27	U	1.0	0.27	ug/L			10/09/23 12:11	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/09/23 12:11	1
Toluene	0.25	U	1.0	0.25	ug/L			10/09/23 12:11	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/09/23 12:11	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/09/23 12:11	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/09/23 12:11	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/09/23 12:11	1
Vinyl chloride	**10**		1.0	0.40	ug/L			10/09/23 12:11	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/09/23 12:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*60 - 124*		*10/09/23 12:11*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*10/09/23 12:11*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*10/09/23 12:11*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/09/23 12:11*	*1*

Client Sample ID: LC34-DPT0958-013.0-20231003
Lab Sample ID: 670-28030-8

Date Collected: 10/03/23 16:50
Matrix: Water
Date Received: 10/05/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/09/23 12:30	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/09/23 12:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/09/23 12:30	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/09/23 12:30	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/09/23 12:30	1

Client: Tetra Tech, Inc.
Job ID: 670-28030-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT0958-013.0-20231003
Lab Sample ID: 670-28030-8
Date Collected: 10/03/23 16:50
Matrix: Water
Date Received: 10/05/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/09/23 12:30	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/09/23 12:30	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/09/23 12:30	1
1,2-Dibromoethane (EDB)	0.33	U	2.0	0.33	ug/L			10/09/23 12:30	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 12:30	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/09/23 12:30	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/09/23 12:30	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 12:30	1
1,4-Dichlorobenzene	0.31	U	2.0	0.31	ug/L			10/09/23 12:30	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/09/23 12:30	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/09/23 12:30	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/09/23 12:30	1
Acetone	3.7	U	10	3.7	ug/L			10/09/23 12:30	1
Benzene	0.27	U	1.0	0.27	ug/L			10/09/23 12:30	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/09/23 12:30	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/09/23 12:30	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/09/23 12:30	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/09/23 12:30	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/09/23 12:30	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/09/23 12:30	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/09/23 12:30	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/09/23 12:30	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/09/23 12:30	1
cis-1,2-Dichloroethene	**19**		1.0	0.25	ug/L			10/09/23 12:30	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/09/23 12:30	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/09/23 12:30	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/09/23 12:30	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/09/23 12:30	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/09/23 12:30	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/09/23 12:30	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/09/23 12:30	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/09/23 12:30	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/09/23 12:30	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/09/23 12:30	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/09/23 12:30	1
Styrene	0.27	U	1.0	0.27	ug/L			10/09/23 12:30	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/09/23 12:30	1
Toluene	0.25	U	1.0	0.25	ug/L			10/09/23 12:30	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/09/23 12:30	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/09/23 12:30	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/09/23 12:30	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/09/23 12:30	1
Vinyl chloride	**50**		1.0	0.40	ug/L			10/09/23 12:30	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/09/23 12:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*87*		*60 - 124*		*10/09/23 12:30*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/09/23 12:30*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*10/09/23 12:30*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/09/23 12:30*	*1*

Client: Tetra Tech, Inc.
Job ID: 670-28030-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT0958-018.0-20231004
Lab Sample ID: 670-28030-9
Date Collected: 10/04/23 07:55
Matrix: Water
Date Received: 10/05/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/09/23 12:49	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/09/23 12:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/09/23 12:49	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/09/23 12:49	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/09/23 12:49	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/09/23 12:49	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/09/23 12:49	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/09/23 12:49	1
1,2-Dibromoethane (EDB)	0.33	U	2.0	0.33	ug/L			10/09/23 12:49	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 12:49	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/09/23 12:49	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/09/23 12:49	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 12:49	1
1,4-Dichlorobenzene	0.31	U	2.0	0.31	ug/L			10/09/23 12:49	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/09/23 12:49	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/09/23 12:49	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/09/23 12:49	1
Acetone	3.7	U	10	3.7	ug/L			10/09/23 12:49	1
Benzene	0.27	U	1.0	0.27	ug/L			10/09/23 12:49	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/09/23 12:49	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/09/23 12:49	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/09/23 12:49	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/09/23 12:49	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/09/23 12:49	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/09/23 12:49	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/09/23 12:49	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/09/23 12:49	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/09/23 12:49	1
cis-1,2-Dichloroethene	**44**		1.0	0.25	ug/L			10/09/23 12:49	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/09/23 12:49	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/09/23 12:49	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/09/23 12:49	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/09/23 12:49	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/09/23 12:49	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/09/23 12:49	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/09/23 12:49	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/09/23 12:49	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/09/23 12:49	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/09/23 12:49	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/09/23 12:49	1
Styrene	0.27	U	1.0	0.27	ug/L			10/09/23 12:49	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/09/23 12:49	1
Toluene	0.25	U	1.0	0.25	ug/L			10/09/23 12:49	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/09/23 12:49	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/09/23 12:49	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/09/23 12:49	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/09/23 12:49	1
Vinyl chloride	**96**		1.0	0.40	ug/L			10/09/23 12:49	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/09/23 12:49	1

Client Sample ID: LC34-DPT0958-018.0-20231004
Lab Sample ID: 670-28030-9

Date Collected: 10/04/23 07:55
Matrix: Water
Date Received: 10/05/23 08:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		60 - 124		10/09/23 12:49	1
4-Bromofluorobenzene (Surr)	100		70 - 130		10/09/23 12:49	1
Dibromofluoromethane (Surr)	99		70 - 130		10/09/23 12:49	1
Toluene-d8 (Surr)	100		70 - 130		10/09/23 12:49	1

Client Sample ID: LC34-DPT0958-025.0-20231004
Lab Sample ID: 670-28030-10

Date Collected: 10/04/23 08:15
Matrix: Water
Date Received: 10/05/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	5.0	1.1	ug/L			10/09/23 16:31	5
1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	ug/L			10/09/23 16:31	5
1,1,2-Trichloro-1,2,2-trifluoroethane	1.2	U	5.0	1.2	ug/L			10/09/23 16:31	5
1,1,2-Trichloroethane	1.6	U	5.0	1.6	ug/L			10/09/23 16:31	5
1,1-Dichloroethane	1.7	U	5.0	1.7	ug/L			10/09/23 16:31	5
1,1-Dichloroethene	1.7	U	5.0	1.7	ug/L			10/09/23 16:31	5
1,2,4-Trichlorobenzene	2.7	U	25	2.7	ug/L			10/09/23 16:31	5
1,2-Dibromo-3-Chloropropane	9.0	U	25	9.0	ug/L			10/09/23 16:31	5
1,2-Dibromoethane (EDB)	1.7	U	10	1.7	ug/L			10/09/23 16:31	5
1,2-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/09/23 16:31	5
1,2-Dichloroethane	1.3	U	5.0	1.3	ug/L			10/09/23 16:31	5
1,2-Dichloropropane	1.1	U	5.0	1.1	ug/L			10/09/23 16:31	5
1,3-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/09/23 16:31	5
1,4-Dichlorobenzene	1.6	U	10	1.6	ug/L			10/09/23 16:31	5
2-Butanone (MEK)	32	U	50	32	ug/L			10/09/23 16:31	5
2-Hexanone	16	U	50	16	ug/L			10/09/23 16:31	5
4-Methyl-2-pentanone	14	U	50	14	ug/L			10/09/23 16:31	5
Acetone	19	U	50	19	ug/L			10/09/23 16:31	5
Benzene	1.4	U	5.0	1.4	ug/L			10/09/23 16:31	5
Bromodichloromethane	1.3	U	5.0	1.3	ug/L			10/09/23 16:31	5
Bromoform	3.0	U	5.0	3.0	ug/L			10/09/23 16:31	5
Bromomethane	19	U	25	19	ug/L			10/09/23 16:31	5
Carbon disulfide	2.2	U	10	2.2	ug/L			10/09/23 16:31	5
Carbon tetrachloride	1.5	U	5.0	1.5	ug/L			10/09/23 16:31	5
Chlorobenzene	0.75	U	5.0	0.75	ug/L			10/09/23 16:31	5
Chloroethane	23	U	25	23	ug/L			10/09/23 16:31	5
Chloroform	1.4	U	5.0	1.4	ug/L			10/09/23 16:31	5
Chloromethane	2.7	U	5.0	2.7	ug/L			10/09/23 16:31	5
cis-1,2-Dichloroethene	**480**		5.0	1.3	ug/L			10/09/23 16:31	5
cis-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			10/09/23 16:31	5
Cyclohexane	1.4	U	5.0	1.4	ug/L			10/09/23 16:31	5
Dibromochloromethane	2.0	U	5.0	2.0	ug/L			10/09/23 16:31	5
Dichlorodifluoromethane	1.8	U	5.0	1.8	ug/L			10/09/23 16:31	5
Ethylbenzene	1.0	U	5.0	1.0	ug/L			10/09/23 16:31	5
Isopropylbenzene	1.3	U	5.0	1.3	ug/L			10/09/23 16:31	5
m,p-Xylenes	2.5	U	5.0	2.5	ug/L			10/09/23 16:31	5
Methyl acetate	16	U	25	16	ug/L			10/09/23 16:31	5
Methyl tert-butyl ether	4.1	U	25	4.1	ug/L			10/09/23 16:31	5
Methylene Chloride	16	U	25	16	ug/L			10/09/23 16:31	5

Client Sample ID: LC34-DPT0958-025.0-20231004
Lab Sample ID: 670-28030-10

Date Collected: 10/04/23 08:15
Matrix: Water
Date Received: 10/05/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	1.3	U	5.0	1.3	ug/L			10/09/23 16:31	5
Styrene	1.4	U	5.0	1.4	ug/L			10/09/23 16:31	5
Tetrachloroethene	1.8	U	5.0	1.8	ug/L			10/09/23 16:31	5
Toluene	1.3	U	5.0	1.3	ug/L			10/09/23 16:31	5
trans-1,2-Dichloroethene	**4.9**	**I**	5.0	1.7	ug/L			10/09/23 16:31	5
trans-1,3-Dichloropropene	1.2	U	5.0	1.2	ug/L			10/09/23 16:31	5
Trichloroethene	1.0	U	5.0	1.0	ug/L			10/09/23 16:31	5
Trichlorofluoromethane	1.7	U	5.0	1.7	ug/L			10/09/23 16:31	5
Vinyl chloride	**690**		5.0	2.0	ug/L			10/09/23 16:31	5
Xylenes, Total	1.2	U	5.0	1.2	ug/L			10/09/23 16:31	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*60 - 124*		*10/09/23 16:31*	*5*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*10/09/23 16:31*	*5*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*10/09/23 16:31*	*5*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/09/23 16:31*	*5*

Client Sample ID: LC34-DPT0958-034.0-20231004
Lab Sample ID: 670-28030-11

Date Collected: 10/04/23 08:35
Matrix: Water
Date Received: 10/05/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.3	U	25	5.3	ug/L			10/09/23 17:06	25
1,1,2,2-Tetrachloroethane	10	U	25	10	ug/L			10/09/23 17:06	25
1,1,2-Trichloro-1,2,2-trifluoroethane	5.8	U	25	5.8	ug/L			10/09/23 17:06	25
1,1,2-Trichloroethane	8.0	U	25	8.0	ug/L			10/09/23 17:06	25
1,1-Dichloroethane	8.3	U	25	8.3	ug/L			10/09/23 17:06	25
1,1-Dichloroethene	8.3	U	25	8.3	ug/L			10/09/23 17:06	25
1,2,4-Trichlorobenzene	13	U	130	13	ug/L			10/09/23 17:06	25
1,2-Dibromo-3-Chloropropane	45	U	130	45	ug/L			10/09/23 17:06	25
1,2-Dibromoethane (EDB)	8.3	U	50	8.3	ug/L			10/09/23 17:06	25
1,2-Dichlorobenzene	7.8	U	25	7.8	ug/L			10/09/23 17:06	25
1,2-Dichloroethane	6.3	U	25	6.3	ug/L			10/09/23 17:06	25
1,2-Dichloropropane	5.5	U	25	5.5	ug/L			10/09/23 17:06	25
1,3-Dichlorobenzene	7.8	U	25	7.8	ug/L			10/09/23 17:06	25
1,4-Dichlorobenzene	7.8	U	50	7.8	ug/L			10/09/23 17:06	25
2-Butanone (MEK)	160	U	250	160	ug/L			10/09/23 17:06	25
2-Hexanone	80	U	250	80	ug/L			10/09/23 17:06	25
4-Methyl-2-pentanone	68	U	250	68	ug/L			10/09/23 17:06	25
Acetone	93	U	250	93	ug/L			10/09/23 17:06	25
Benzene	6.8	U	25	6.8	ug/L			10/09/23 17:06	25
Bromodichloromethane	6.3	U	25	6.3	ug/L			10/09/23 17:06	25
Bromoform	15	U	25	15	ug/L			10/09/23 17:06	25
Bromomethane	93	U	130	93	ug/L			10/09/23 17:06	25
Carbon disulfide	11	U	50	11	ug/L			10/09/23 17:06	25
Carbon tetrachloride	7.5	U	25	7.5	ug/L			10/09/23 17:06	25
Chlorobenzene	3.8	U	25	3.8	ug/L			10/09/23 17:06	25
Chloroethane	120	U	130	120	ug/L			10/09/23 17:06	25
Chloroform	6.8	U	25	6.8	ug/L			10/09/23 17:06	25

Client Sample ID: LC34-DPT0958-034.0-20231004
Lab Sample ID: 670-28030-11

Date Collected: 10/04/23 08:35
Matrix: Water
Date Received: 10/05/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	14	U	25	14	ug/L			10/09/23 17:06	25
cis-1,2-Dichloroethene	**120**		25	6.3	ug/L			10/09/23 17:06	25
cis-1,3-Dichloropropene	6.5	U	25	6.5	ug/L			10/09/23 17:06	25
Cyclohexane	7.0	U	25	7.0	ug/L			10/09/23 17:06	25
Dibromochloromethane	9.8	U	25	9.8	ug/L			10/09/23 17:06	25
Dichlorodifluoromethane	9.0	U	25	9.0	ug/L			10/09/23 17:06	25
Ethylbenzene	5.0	U	25	5.0	ug/L			10/09/23 17:06	25
Isopropylbenzene	6.5	U	25	6.5	ug/L			10/09/23 17:06	25
m,p-Xylenes	12	U	25	12	ug/L			10/09/23 17:06	25
Methyl acetate	80	U	130	80	ug/L			10/09/23 17:06	25
Methyl tert-butyl ether	20	U	130	20	ug/L			10/09/23 17:06	25
Methylene Chloride	80	U	130	80	ug/L			10/09/23 17:06	25
o-Xylene	6.5	U	25	6.5	ug/L			10/09/23 17:06	25
Styrene	6.8	U	25	6.8	ug/L			10/09/23 17:06	25
Tetrachloroethene	8.8	U	25	8.8	ug/L			10/09/23 17:06	25
Toluene	6.3	U	25	6.3	ug/L			10/09/23 17:06	25
trans-1,2-Dichloroethene	8.5	U	25	8.5	ug/L			10/09/23 17:06	25
trans-1,3-Dichloropropene	5.8	U	25	5.8	ug/L			10/09/23 17:06	25
Trichloroethene	5.0	U	25	5.0	ug/L			10/09/23 17:06	25
Trichlorofluoromethane	8.3	U	25	8.3	ug/L			10/09/23 17:06	25
Vinyl chloride	**3100**		25	10	ug/L			10/09/23 17:06	25
Xylenes, Total	5.8	U	25	5.8	ug/L			10/09/23 17:06	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*60 - 124*		*10/09/23 17:06*	*25*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*10/09/23 17:06*	*25*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*10/09/23 17:06*	*25*
Toluene-d8 (Surr)	*99*		*70 - 130*		*10/09/23 17:06*	*25*

Client Sample ID: LC34-DPT0958-038.0-20231004
Lab Sample ID: 670-28030-12

Date Collected: 10/04/23 08:55
Matrix: Water
Date Received: 10/05/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2.1	U	10	2.1	ug/L			10/09/23 17:27	10
1,1,2,2-Tetrachloroethane	4.0	U	10	4.0	ug/L			10/09/23 17:27	10
1,1,2-Trichloro-1,2,2-trifluoroethane	2.3	U	10	2.3	ug/L			10/09/23 17:27	10
1,1,2-Trichloroethane	3.2	U	10	3.2	ug/L			10/09/23 17:27	10
1,1-Dichloroethane	3.3	U	10	3.3	ug/L			10/09/23 17:27	10
1,1-Dichloroethene	3.3	U	10	3.3	ug/L			10/09/23 17:27	10
1,2,4-Trichlorobenzene	5.3	U	50	5.3	ug/L			10/09/23 17:27	10
1,2-Dibromo-3-Chloropropane	18	U	50	18	ug/L			10/09/23 17:27	10
1,2-Dibromoethane (EDB)	3.3	U	20	3.3	ug/L			10/09/23 17:27	10
1,2-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/09/23 17:27	10
1,2-Dichloroethane	2.5	U	10	2.5	ug/L			10/09/23 17:27	10
1,2-Dichloropropane	2.2	U	10	2.2	ug/L			10/09/23 17:27	10
1,3-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/09/23 17:27	10
1,4-Dichlorobenzene	3.1	U	20	3.1	ug/L			10/09/23 17:27	10
2-Butanone (MEK)	64	U	100	64	ug/L			10/09/23 17:27	10

Client Sample ID: LC34-DPT0958-038.0-20231004
Lab Sample ID: 670-28030-12
Date Collected: 10/04/23 08:55
Matrix: Water
Date Received: 10/05/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	32	U	100	32	ug/L			10/09/23 17:27	10
4-Methyl-2-pentanone	27	U	100	27	ug/L			10/09/23 17:27	10
Acetone	37	U	100	37	ug/L			10/09/23 17:27	10
Benzene	2.7	U	10	2.7	ug/L			10/09/23 17:27	10
Bromodichloromethane	2.5	U	10	2.5	ug/L			10/09/23 17:27	10
Bromoform	5.9	U	10	5.9	ug/L			10/09/23 17:27	10
Bromomethane	37	U	50	37	ug/L			10/09/23 17:27	10
Carbon disulfide	4.3	U	20	4.3	ug/L			10/09/23 17:27	10
Carbon tetrachloride	3.0	U	10	3.0	ug/L			10/09/23 17:27	10
Chlorobenzene	1.5	U	10	1.5	ug/L			10/09/23 17:27	10
Chloroethane	46	U	50	46	ug/L			10/09/23 17:27	10
Chloroform	2.7	U	10	2.7	ug/L			10/09/23 17:27	10
Chloromethane	5.4	U	10	5.4	ug/L			10/09/23 17:27	10
cis-1,2-Dichloroethene	**40**		10	2.5	ug/L			10/09/23 17:27	10
cis-1,3-Dichloropropene	2.6	U	10	2.6	ug/L			10/09/23 17:27	10
Cyclohexane	2.8	U	10	2.8	ug/L			10/09/23 17:27	10
Dibromochloromethane	3.9	U	10	3.9	ug/L			10/09/23 17:27	10
Dichlorodifluoromethane	3.6	U	10	3.6	ug/L			10/09/23 17:27	10
Ethylbenzene	2.0	U	10	2.0	ug/L			10/09/23 17:27	10
Isopropylbenzene	2.6	U	10	2.6	ug/L			10/09/23 17:27	10
m,p-Xylenes	4.9	U	10	4.9	ug/L			10/09/23 17:27	10
Methyl acetate	32	U	50	32	ug/L			10/09/23 17:27	10
Methyl tert-butyl ether	8.1	U	50	8.1	ug/L			10/09/23 17:27	10
Methylene Chloride	32	U	50	32	ug/L			10/09/23 17:27	10
o-Xylene	2.6	U	10	2.6	ug/L			10/09/23 17:27	10
Styrene	2.7	U	10	2.7	ug/L			10/09/23 17:27	10
Tetrachloroethene	3.5	U	10	3.5	ug/L			10/09/23 17:27	10
Toluene	2.5	U	10	2.5	ug/L			10/09/23 17:27	10
trans-1,2-Dichloroethene	3.4	U	10	3.4	ug/L			10/09/23 17:27	10
trans-1,3-Dichloropropene	2.3	U	10	2.3	ug/L			10/09/23 17:27	10
Trichloroethene	2.0	U	10	2.0	ug/L			10/09/23 17:27	10
Trichlorofluoromethane	3.3	U	10	3.3	ug/L			10/09/23 17:27	10
Xylenes, Total	2.3	U	10	2.3	ug/L			10/09/23 17:27	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*60 - 124*		*10/09/23 17:27*	*10*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*10/09/23 17:27*	*10*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*10/09/23 17:27*	*10*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/09/23 17:27*	*10*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	**3200**		25	10	ug/L			10/09/23 23:15	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*60 - 124*		*10/09/23 23:15*	*25*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*10/09/23 23:15*	*25*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*10/09/23 23:15*	*25*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/09/23 23:15*	*25*

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28030-1

Client Sample ID: LC34-DPT0959-008.0-20231004
Date Collected: 10/04/23 09:40
Date Received: 10/05/23 08:00

Lab Sample ID: 670-28030-13
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/09/23 13:08	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/09/23 13:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/09/23 13:08	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/09/23 13:08	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/09/23 13:08	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/09/23 13:08	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/09/23 13:08	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/09/23 13:08	1
1,2-Dibromoethane (EDB)	0.33	U	2.0	0.33	ug/L			10/09/23 13:08	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 13:08	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/09/23 13:08	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/09/23 13:08	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 13:08	1
1,4-Dichlorobenzene	0.31	U	2.0	0.31	ug/L			10/09/23 13:08	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/09/23 13:08	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/09/23 13:08	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/09/23 13:08	1
Acetone	3.7	U	10	3.7	ug/L			10/09/23 13:08	1
Benzene	0.27	U	1.0	0.27	ug/L			10/09/23 13:08	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/09/23 13:08	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/09/23 13:08	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/09/23 13:08	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/09/23 13:08	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/09/23 13:08	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/09/23 13:08	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/09/23 13:08	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/09/23 13:08	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/09/23 13:08	1
cis-1,2-Dichloroethene	**10**		1.0	0.25	ug/L			10/09/23 13:08	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/09/23 13:08	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/09/23 13:08	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/09/23 13:08	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/09/23 13:08	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/09/23 13:08	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/09/23 13:08	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/09/23 13:08	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/09/23 13:08	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/09/23 13:08	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/09/23 13:08	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/09/23 13:08	1
Styrene	0.27	U	1.0	0.27	ug/L			10/09/23 13:08	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/09/23 13:08	1
Toluene	0.25	U	1.0	0.25	ug/L			10/09/23 13:08	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/09/23 13:08	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/09/23 13:08	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/09/23 13:08	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/09/23 13:08	1
Vinyl chloride	**11**		1.0	0.40	ug/L			10/09/23 13:08	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/09/23 13:08	1

Client Sample ID: LC34-DPT0959-008.0-20231004

Lab Sample ID: 670-28030-13

Date Collected: 10/04/23 09:40

Matrix: Water

Date Received: 10/05/23 08:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		60 - 124		10/09/23 13:08	1
4-Bromofluorobenzene (Surr)	103		70 - 130		10/09/23 13:08	1
Dibromofluoromethane (Surr)	98		70 - 130		10/09/23 13:08	1
Toluene-d8 (Surr)	100		70 - 130		10/09/23 13:08	1

Client Sample ID: LC34-DPT0959-013.0-20231004

Lab Sample ID: 670-28030-14

Date Collected: 10/04/23 09:55

Matrix: Water

Date Received: 10/05/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/09/23 13:27	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/09/23 13:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/09/23 13:27	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/09/23 13:27	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/09/23 13:27	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/09/23 13:27	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/09/23 13:27	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/09/23 13:27	1
1,2-Dibromoethane (EDB)	0.33	U	2.0	0.33	ug/L			10/09/23 13:27	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 13:27	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/09/23 13:27	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/09/23 13:27	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 13:27	1
1,4-Dichlorobenzene	0.31	U	2.0	0.31	ug/L			10/09/23 13:27	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/09/23 13:27	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/09/23 13:27	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/09/23 13:27	1
Acetone	3.7	U	10	3.7	ug/L			10/09/23 13:27	1
Benzene	0.27	U	1.0	0.27	ug/L			10/09/23 13:27	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/09/23 13:27	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/09/23 13:27	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/09/23 13:27	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/09/23 13:27	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/09/23 13:27	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/09/23 13:27	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/09/23 13:27	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/09/23 13:27	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/09/23 13:27	1
cis-1,2-Dichloroethene	**24**		1.0	0.25	ug/L			10/09/23 13:27	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/09/23 13:27	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/09/23 13:27	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/09/23 13:27	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/09/23 13:27	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/09/23 13:27	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/09/23 13:27	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/09/23 13:27	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/09/23 13:27	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/09/23 13:27	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/09/23 13:27	1

Client Sample ID: LC34-DPT0959-013.0-20231004
Lab Sample ID: 670-28030-14

Date Collected: 10/04/23 09:55
Matrix: Water
Date Received: 10/05/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	0.26	U	1.0	0.26	ug/L			10/09/23 13:27	1
Styrene	0.27	U	1.0	0.27	ug/L			10/09/23 13:27	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/09/23 13:27	1
Toluene	0.25	U	1.0	0.25	ug/L			10/09/23 13:27	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/09/23 13:27	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/09/23 13:27	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/09/23 13:27	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/09/23 13:27	1
Vinyl chloride	**35**		1.0	0.40	ug/L			10/09/23 13:27	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/09/23 13:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*60 - 124*		*10/09/23 13:27*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*10/09/23 13:27*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*10/09/23 13:27*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/09/23 13:27*	*1*

Client Sample ID: LC34-DPT0959-018.0-20231004
Lab Sample ID: 670-28030-15

Date Collected: 10/04/23 10:10
Matrix: Water
Date Received: 10/05/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/09/23 21:50	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/09/23 21:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/09/23 21:50	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/09/23 21:50	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/09/23 21:50	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/09/23 21:50	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/09/23 21:50	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/09/23 21:50	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/09/23 21:50	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 21:50	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/09/23 21:50	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/09/23 21:50	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 21:50	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 21:50	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/09/23 21:50	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/09/23 21:50	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/09/23 21:50	1
Acetone	3.7	U	10	3.7	ug/L			10/09/23 21:50	1
Benzene	0.27	U	1.0	0.27	ug/L			10/09/23 21:50	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/09/23 21:50	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/09/23 21:50	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/09/23 21:50	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/09/23 21:50	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/09/23 21:50	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/09/23 21:50	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/09/23 21:50	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/09/23 21:50	1

Client Sample ID: LC34-DPT0959-018.0-20231004
Lab Sample ID: 670-28030-15

Date Collected: 10/04/23 10:10
Matrix: Water
Date Received: 10/05/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	0.54	U	1.0	0.54	ug/L			10/09/23 21:50	1
cis-1,2-Dichloroethene	**41**		1.0	0.25	ug/L			10/09/23 21:50	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/09/23 21:50	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/09/23 21:50	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/09/23 21:50	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/09/23 21:50	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/09/23 21:50	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/09/23 21:50	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/09/23 21:50	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/09/23 21:50	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/09/23 21:50	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/09/23 21:50	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/09/23 21:50	1
Styrene	0.27	U	1.0	0.27	ug/L			10/09/23 21:50	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/09/23 21:50	1
Toluene	0.25	U	1.0	0.25	ug/L			10/09/23 21:50	1
trans-1,2-Dichloroethene	**0.48**	**I**	1.0	0.34	ug/L			10/09/23 21:50	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/09/23 21:50	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/09/23 21:50	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/09/23 21:50	1
Vinyl chloride	**60**		1.0	0.40	ug/L			10/09/23 21:50	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/09/23 21:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*60 - 124*		*10/09/23 21:50*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*10/09/23 21:50*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*10/09/23 21:50*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/09/23 21:50*	*1*

Client Sample ID: LC34-DPT0959-025.0-20231004
Lab Sample ID: 670-28030-16

Date Collected: 10/04/23 10:30
Matrix: Water
Date Received: 10/05/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.42	U	2.0	0.42	ug/L			10/09/23 18:10	2
1,1,2,2-Tetrachloroethane	0.80	U	2.0	0.80	ug/L			10/09/23 18:10	2
1,1,2-Trichloro-1,2,2-trifluoroethane	0.46	U	2.0	0.46	ug/L			10/09/23 18:10	2
1,1,2-Trichloroethane	0.64	U	2.0	0.64	ug/L			10/09/23 18:10	2
1,1-Dichloroethane	0.66	U	2.0	0.66	ug/L			10/09/23 18:10	2
1,1-Dichloroethene	0.66	U	2.0	0.66	ug/L			10/09/23 18:10	2
1,2,4-Trichlorobenzene	1.1	U	10	1.1	ug/L			10/09/23 18:10	2
1,2-Dibromo-3-Chloropropane	3.6	U	10	3.6	ug/L			10/09/23 18:10	2
1,2-Dibromoethane (EDB)	0.66	U	4.0	0.66	ug/L			10/09/23 18:10	2
1,2-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/09/23 18:10	2
1,2-Dichloroethane	0.50	U	2.0	0.50	ug/L			10/09/23 18:10	2
1,2-Dichloropropane	0.44	U	2.0	0.44	ug/L			10/09/23 18:10	2
1,3-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/09/23 18:10	2
1,4-Dichlorobenzene	0.62	U	4.0	0.62	ug/L			10/09/23 18:10	2
2-Butanone (MEK)	13	U	20	13	ug/L			10/09/23 18:10	2

Client Sample ID: LC34-DPT0959-025.0-20231004
Lab Sample ID: 670-28030-16

Date Collected: 10/04/23 10:30
Matrix: Water
Date Received: 10/05/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	6.4	U	20	6.4	ug/L			10/09/23 18:10	2
4-Methyl-2-pentanone	5.4	U	20	5.4	ug/L			10/09/23 18:10	2
Acetone	7.4	U	20	7.4	ug/L			10/09/23 18:10	2
Benzene	0.54	U	2.0	0.54	ug/L			10/09/23 18:10	2
Bromodichloromethane	0.50	U	2.0	0.50	ug/L			10/09/23 18:10	2
Bromoform	1.2	U	2.0	1.2	ug/L			10/09/23 18:10	2
Bromomethane	7.4	U	10	7.4	ug/L			10/09/23 18:10	2
Carbon disulfide	0.86	U	4.0	0.86	ug/L			10/09/23 18:10	2
Carbon tetrachloride	0.60	U	2.0	0.60	ug/L			10/09/23 18:10	2
Chlorobenzene	0.30	U	2.0	0.30	ug/L			10/09/23 18:10	2
Chloroethane	9.2	U	10	9.2	ug/L			10/09/23 18:10	2
Chloroform	0.54	U	2.0	0.54	ug/L			10/09/23 18:10	2
Chloromethane	1.1	U	2.0	1.1	ug/L			10/09/23 18:10	2
cis-1,2-Dichloroethene	**350**		2.0	0.50	ug/L			10/09/23 18:10	2
cis-1,3-Dichloropropene	0.52	U	2.0	0.52	ug/L			10/09/23 18:10	2
Cyclohexane	0.56	U	2.0	0.56	ug/L			10/09/23 18:10	2
Dibromochloromethane	0.78	U	2.0	0.78	ug/L			10/09/23 18:10	2
Dichlorodifluoromethane	0.72	U	2.0	0.72	ug/L			10/09/23 18:10	2
Ethylbenzene	0.40	U	2.0	0.40	ug/L			10/09/23 18:10	2
Isopropylbenzene	0.52	U	2.0	0.52	ug/L			10/09/23 18:10	2
m,p-Xylenes	0.98	U	2.0	0.98	ug/L			10/09/23 18:10	2
Methyl acetate	6.4	U	10	6.4	ug/L			10/09/23 18:10	2
Methyl tert-butyl ether	1.6	U	10	1.6	ug/L			10/09/23 18:10	2
Methylene Chloride	6.4	U	10	6.4	ug/L			10/09/23 18:10	2
o-Xylene	0.52	U	2.0	0.52	ug/L			10/09/23 18:10	2
Styrene	0.54	U	2.0	0.54	ug/L			10/09/23 18:10	2
Tetrachloroethene	0.70	U	2.0	0.70	ug/L			10/09/23 18:10	2
Toluene	0.50	U	2.0	0.50	ug/L			10/09/23 18:10	2
trans-1,2-Dichloroethene	**3.6**		2.0	0.68	ug/L			10/09/23 18:10	2
trans-1,3-Dichloropropene	0.46	U	2.0	0.46	ug/L			10/09/23 18:10	2
Trichloroethene	0.40	U	2.0	0.40	ug/L			10/09/23 18:10	2
Trichlorofluoromethane	0.66	U	2.0	0.66	ug/L			10/09/23 18:10	2
Vinyl chloride	**360**		2.0	0.80	ug/L			10/09/23 18:10	2
Xylenes, Total	0.46	U	2.0	0.46	ug/L			10/09/23 18:10	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*60 - 124*		*10/09/23 18:10*	*2*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*10/09/23 18:10*	*2*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*10/09/23 18:10*	*2*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/09/23 18:10*	*2*

Client Sample ID: LC34-DPT0959-034.0-20231004
Lab Sample ID: 670-28030-17

Date Collected: 10/04/23 10:50
Matrix: Water
Date Received: 10/05/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.3	U	25	5.3	ug/L			10/10/23 00:41	25
1,1,2,2-Tetrachloroethane	10	U	25	10	ug/L			10/10/23 00:41	25
1,1,2-Trichloro-1,2,2-trifluoroethane	5.8	U	25	5.8	ug/L			10/10/23 00:41	25

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28030-1

Client Sample ID: LC34-DPT0959-034.0-20231004
Date Collected: 10/04/23 10:50
Date Received: 10/05/23 08:00

Lab Sample ID: 670-28030-17
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	8.0	U	25	8.0	ug/L			10/10/23 00:41	25
1,1-Dichloroethane	8.3	U	25	8.3	ug/L			10/10/23 00:41	25
1,1-Dichloroethene	8.3	U	25	8.3	ug/L			10/10/23 00:41	25
1,2,4-Trichlorobenzene	13	U	130	13	ug/L			10/10/23 00:41	25
1,2-Dibromo-3-Chloropropane	45	U	130	45	ug/L			10/10/23 00:41	25
1,2-Dibromoethane (EDB)	8.3	U	25	8.3	ug/L			10/10/23 00:41	25
1,2-Dichlorobenzene	7.8	U	25	7.8	ug/L			10/10/23 00:41	25
1,2-Dichloroethane	6.3	U	25	6.3	ug/L			10/10/23 00:41	25
1,2-Dichloropropane	5.5	U	25	5.5	ug/L			10/10/23 00:41	25
1,3-Dichlorobenzene	7.8	U	25	7.8	ug/L			10/10/23 00:41	25
1,4-Dichlorobenzene	7.8	U	25	7.8	ug/L			10/10/23 00:41	25
2-Butanone (MEK)	160	U	250	160	ug/L			10/10/23 00:41	25
2-Hexanone	80	U	250	80	ug/L			10/10/23 00:41	25
4-Methyl-2-pentanone	68	U	250	68	ug/L			10/10/23 00:41	25
Acetone	93	U	250	93	ug/L			10/10/23 00:41	25
Benzene	6.8	U	25	6.8	ug/L			10/10/23 00:41	25
Bromodichloromethane	6.3	U	25	6.3	ug/L			10/10/23 00:41	25
Bromoform	15	U	25	15	ug/L			10/10/23 00:41	25
Bromomethane	93	U	130	93	ug/L			10/10/23 00:41	25
Carbon disulfide	11	U	50	11	ug/L			10/10/23 00:41	25
Carbon tetrachloride	7.5	U	25	7.5	ug/L			10/10/23 00:41	25
Chlorobenzene	3.8	U	25	3.8	ug/L			10/10/23 00:41	25
Chloroethane	120	U	130	120	ug/L			10/10/23 00:41	25
Chloroform	6.8	U	25	6.8	ug/L			10/10/23 00:41	25
Chloromethane	14	U	25	14	ug/L			10/10/23 00:41	25
cis-1,2-Dichloroethene	**1600**		25	6.3	ug/L			10/10/23 00:41	25
cis-1,3-Dichloropropene	6.5	U	25	6.5	ug/L			10/10/23 00:41	25
Cyclohexane	7.0	U	25	7.0	ug/L			10/10/23 00:41	25
Dibromochloromethane	9.8	U	25	9.8	ug/L			10/10/23 00:41	25
Dichlorodifluoromethane	9.0	U	25	9.0	ug/L			10/10/23 00:41	25
Ethylbenzene	5.0	U	25	5.0	ug/L			10/10/23 00:41	25
Isopropylbenzene	6.5	U	25	6.5	ug/L			10/10/23 00:41	25
m,p-Xylenes	12	U	25	12	ug/L			10/10/23 00:41	25
Methyl acetate	80	U	130	80	ug/L			10/10/23 00:41	25
Methyl tert-butyl ether	20	U	130	20	ug/L			10/10/23 00:41	25
Methylene Chloride	80	U	130	80	ug/L			10/10/23 00:41	25
o-Xylene	6.5	U	25	6.5	ug/L			10/10/23 00:41	25
Styrene	6.8	U	25	6.8	ug/L			10/10/23 00:41	25
Tetrachloroethene	8.8	U	25	8.8	ug/L			10/10/23 00:41	25
Toluene	6.3	U	25	6.3	ug/L			10/10/23 00:41	25
trans-1,2-Dichloroethene	8.5	U	25	8.5	ug/L			10/10/23 00:41	25
trans-1,3-Dichloropropene	5.8	U	25	5.8	ug/L			10/10/23 00:41	25
Trichloroethene	5.0	U	25	5.0	ug/L			10/10/23 00:41	25
Trichlorofluoromethane	8.3	U	25	8.3	ug/L			10/10/23 00:41	25
Vinyl chloride	**820**		25	10	ug/L			10/10/23 00:41	25
Xylenes, Total	5.8	U	25	5.8	ug/L			10/10/23 00:41	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*60 - 124*		*10/10/23 00:41*	*25*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*10/10/23 00:41*	*25*

Client Sample ID: LC34-DPT0959-034.0-20231004
Lab Sample ID: 670-28030-17

Date Collected: 10/04/23 10:50
Matrix: Water
Date Received: 10/05/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*10/10/23 00:41*	*25*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/10/23 00:41*	*25*

Client Sample ID: LC34-DPT0959-038.0-20231004
Lab Sample ID: 670-28030-18

Date Collected: 10/04/23 11:10
Matrix: Water
Date Received: 10/05/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/10/23 14:03	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/10/23 14:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/10/23 14:03	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/10/23 14:03	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/10/23 14:03	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/10/23 14:03	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/10/23 14:03	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/10/23 14:03	1
1,2-Dibromoethane (EDB)	0.33	U	2.0	0.33	ug/L			10/10/23 14:03	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/10/23 14:03	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/10/23 14:03	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/10/23 14:03	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/10/23 14:03	1
1,4-Dichlorobenzene	0.31	U	2.0	0.31	ug/L			10/10/23 14:03	1
2-Butanone (MEK)	**7.5**	**I**	10	6.4	ug/L			10/10/23 14:03	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/10/23 14:03	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/10/23 14:03	1
Acetone	3.7	U	10	3.7	ug/L			10/10/23 14:03	1
Benzene	0.27	U	1.0	0.27	ug/L			10/10/23 14:03	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/10/23 14:03	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/10/23 14:03	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/10/23 14:03	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/10/23 14:03	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/10/23 14:03	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/10/23 14:03	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/10/23 14:03	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/10/23 14:03	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/10/23 14:03	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/10/23 14:03	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/10/23 14:03	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/10/23 14:03	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/10/23 14:03	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/10/23 14:03	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/10/23 14:03	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/10/23 14:03	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/10/23 14:03	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/10/23 14:03	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/10/23 14:03	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/10/23 14:03	1
Styrene	0.27	U	1.0	0.27	ug/L			10/10/23 14:03	1

Client Sample ID: LC34-DPT0959-038.0-20231004

Lab Sample ID: 670-28030-18

Date Collected: 10/04/23 11:10

Matrix: Water

Date Received: 10/05/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/10/23 14:03	1
Toluene	0.25	U	1.0	0.25	ug/L			10/10/23 14:03	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/10/23 14:03	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/10/23 14:03	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/10/23 14:03	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/10/23 14:03	1
Vinyl chloride	**17**		1.0	0.40	ug/L			10/10/23 14:03	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/10/23 14:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*60 - 124*		*10/10/23 14:03*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*10/10/23 14:03*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*10/10/23 14:03*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/10/23 14:03*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**240**		25	6.3	ug/L			10/10/23 01:02	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*60 - 124*		*10/10/23 01:02*	*25*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*10/10/23 01:02*	*25*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*10/10/23 01:02*	*25*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/10/23 01:02*	*25*

Client Sample ID: LC34-DPT0960-008.0-20231004

Lab Sample ID: 670-28030-19

Date Collected: 10/04/23 11:50

Matrix: Water

Date Received: 10/05/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/09/23 13:46	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/09/23 13:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/09/23 13:46	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/09/23 13:46	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/09/23 13:46	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/09/23 13:46	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/09/23 13:46	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/09/23 13:46	1
1,2-Dibromoethane (EDB)	0.33	U	2.0	0.33	ug/L			10/09/23 13:46	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 13:46	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/09/23 13:46	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/09/23 13:46	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 13:46	1
1,4-Dichlorobenzene	0.31	U	2.0	0.31	ug/L			10/09/23 13:46	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/09/23 13:46	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/09/23 13:46	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/09/23 13:46	1
Acetone	3.7	U	10	3.7	ug/L			10/09/23 13:46	1
Benzene	0.27	U	1.0	0.27	ug/L			10/09/23 13:46	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/09/23 13:46	1

Client Sample ID: LC34-DPT0960-008.0-20231004
Lab Sample ID: 670-28030-19

Date Collected: 10/04/23 11:50
Matrix: Water
Date Received: 10/05/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	0.59	U	1.0	0.59	ug/L			10/09/23 13:46	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/09/23 13:46	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/09/23 13:46	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/09/23 13:46	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/09/23 13:46	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/09/23 13:46	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/09/23 13:46	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/09/23 13:46	1
cis-1,2-Dichloroethene	**1.4**		1.0	0.25	ug/L			10/09/23 13:46	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/09/23 13:46	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/09/23 13:46	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/09/23 13:46	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/09/23 13:46	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/09/23 13:46	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/09/23 13:46	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/09/23 13:46	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/09/23 13:46	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/09/23 13:46	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/09/23 13:46	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/09/23 13:46	1
Styrene	0.27	U	1.0	0.27	ug/L			10/09/23 13:46	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/09/23 13:46	1
Toluene	0.25	U	1.0	0.25	ug/L			10/09/23 13:46	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/09/23 13:46	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/09/23 13:46	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/09/23 13:46	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/09/23 13:46	1
Vinyl chloride	**6.5**		1.0	0.40	ug/L			10/09/23 13:46	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/09/23 13:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*60 - 124*		*10/09/23 13:46*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/09/23 13:46*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*10/09/23 13:46*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/09/23 13:46*	*1*

Client Sample ID: LC34-DPT0960-013.0-20231004
Lab Sample ID: 670-28030-20

Date Collected: 10/04/23 12:05
Matrix: Water
Date Received: 10/05/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/09/23 14:05	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/09/23 14:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/09/23 14:05	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/09/23 14:05	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/09/23 14:05	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/09/23 14:05	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/09/23 14:05	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/09/23 14:05	1

Client Sample ID: LC34-DPT0960-013.0-20231004
Lab Sample ID: 670-28030-20
Date Collected: 10/04/23 12:05
Matrix: Water
Date Received: 10/05/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	0.33	U	2.0	0.33	ug/L			10/09/23 14:05	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 14:05	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/09/23 14:05	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/09/23 14:05	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 14:05	1
1,4-Dichlorobenzene	0.31	U	2.0	0.31	ug/L			10/09/23 14:05	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/09/23 14:05	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/09/23 14:05	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/09/23 14:05	1
Acetone	3.7	U	10	3.7	ug/L			10/09/23 14:05	1
Benzene	0.27	U	1.0	0.27	ug/L			10/09/23 14:05	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/09/23 14:05	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/09/23 14:05	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/09/23 14:05	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/09/23 14:05	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/09/23 14:05	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/09/23 14:05	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/09/23 14:05	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/09/23 14:05	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/09/23 14:05	1
cis-1,2-Dichloroethene	**4.4**		1.0	0.25	ug/L			10/09/23 14:05	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/09/23 14:05	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/09/23 14:05	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/09/23 14:05	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/09/23 14:05	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/09/23 14:05	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/09/23 14:05	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/09/23 14:05	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/09/23 14:05	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/09/23 14:05	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/09/23 14:05	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/09/23 14:05	1
Styrene	0.27	U	1.0	0.27	ug/L			10/09/23 14:05	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/09/23 14:05	1
Toluene	0.25	U	1.0	0.25	ug/L			10/09/23 14:05	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/09/23 14:05	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/09/23 14:05	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/09/23 14:05	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/09/23 14:05	1
Vinyl chloride	**44**		1.0	0.40	ug/L			10/09/23 14:05	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/09/23 14:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*60 - 124*		*10/09/23 14:05*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/09/23 14:05*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*10/09/23 14:05*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/09/23 14:05*	*1*

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28030-1

Client Sample ID: LC34-DPT0960-018.0-20231004
Date Collected: 10/04/23 12:20
Date Received: 10/05/23 08:00

Lab Sample ID: 670-28030-21
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/10/23 14:22	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/10/23 14:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/10/23 14:22	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/10/23 14:22	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/10/23 14:22	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/10/23 14:22	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/10/23 14:22	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/10/23 14:22	1
1,2-Dibromoethane (EDB)	0.33	U	2.0	0.33	ug/L			10/10/23 14:22	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/10/23 14:22	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/10/23 14:22	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/10/23 14:22	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/10/23 14:22	1
1,4-Dichlorobenzene	0.31	U	2.0	0.31	ug/L			10/10/23 14:22	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/10/23 14:22	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/10/23 14:22	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/10/23 14:22	1
Acetone	3.7	U	10	3.7	ug/L			10/10/23 14:22	1
Benzene	0.27	U	1.0	0.27	ug/L			10/10/23 14:22	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/10/23 14:22	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/10/23 14:22	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/10/23 14:22	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/10/23 14:22	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/10/23 14:22	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/10/23 14:22	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/10/23 14:22	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/10/23 14:22	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/10/23 14:22	1
cis-1,2-Dichloroethene	**22**		1.0	0.25	ug/L			10/10/23 14:22	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/10/23 14:22	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/10/23 14:22	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/10/23 14:22	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/10/23 14:22	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/10/23 14:22	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/10/23 14:22	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/10/23 14:22	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/10/23 14:22	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/10/23 14:22	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/10/23 14:22	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/10/23 14:22	1
Styrene	0.27	U	1.0	0.27	ug/L			10/10/23 14:22	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/10/23 14:22	1
Toluene	0.25	U	1.0	0.25	ug/L			10/10/23 14:22	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/10/23 14:22	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/10/23 14:22	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/10/23 14:22	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/10/23 14:22	1
Vinyl chloride	**41**		1.0	0.40	ug/L			10/10/23 14:22	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/10/23 14:22	1

Client Sample ID: LC34-DPT0960-018.0-20231004
Lab Sample ID: 670-28030-21

Date Collected: 10/04/23 12:20
Matrix: Water
Date Received: 10/05/23 08:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*60 - 124*		*10/10/23 14:22*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*10/10/23 14:22*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*10/10/23 14:22*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/10/23 14:22*	*1*

Client Sample ID: LC34-DPT0960-025.0-20231004
Lab Sample ID: 670-28030-22

Date Collected: 10/04/23 12:40
Matrix: Water
Date Received: 10/05/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.3	U	25	5.3	ug/L			10/10/23 01:23	25
1,1,2,2-Tetrachloroethane	10	U	25	10	ug/L			10/10/23 01:23	25
1,1,2-Trichloro-1,2,2-trifluoroethane	5.8	U	25	5.8	ug/L			10/10/23 01:23	25
1,1,2-Trichloroethane	8.0	U	25	8.0	ug/L			10/10/23 01:23	25
1,1-Dichloroethane	8.3	U	25	8.3	ug/L			10/10/23 01:23	25
1,1-Dichloroethene	8.3	U	25	8.3	ug/L			10/10/23 01:23	25
1,2,4-Trichlorobenzene	13	U	130	13	ug/L			10/10/23 01:23	25
1,2-Dibromo-3-Chloropropane	45	U	130	45	ug/L			10/10/23 01:23	25
1,2-Dibromoethane (EDB)	8.3	U	25	8.3	ug/L			10/10/23 01:23	25
1,2-Dichlorobenzene	7.8	U	25	7.8	ug/L			10/10/23 01:23	25
1,2-Dichloroethane	6.3	U	25	6.3	ug/L			10/10/23 01:23	25
1,2-Dichloropropane	5.5	U	25	5.5	ug/L			10/10/23 01:23	25
1,3-Dichlorobenzene	7.8	U	25	7.8	ug/L			10/10/23 01:23	25
1,4-Dichlorobenzene	7.8	U	25	7.8	ug/L			10/10/23 01:23	25
2-Butanone (MEK)	160	U	250	160	ug/L			10/10/23 01:23	25
2-Hexanone	80	U	250	80	ug/L			10/10/23 01:23	25
4-Methyl-2-pentanone	68	U	250	68	ug/L			10/10/23 01:23	25
Acetone	93	U	250	93	ug/L			10/10/23 01:23	25
Benzene	6.8	U	25	6.8	ug/L			10/10/23 01:23	25
Bromodichloromethane	6.3	U	25	6.3	ug/L			10/10/23 01:23	25
Bromoform	15	U	25	15	ug/L			10/10/23 01:23	25
Bromomethane	93	U	130	93	ug/L			10/10/23 01:23	25
Carbon disulfide	11	U	50	11	ug/L			10/10/23 01:23	25
Carbon tetrachloride	7.5	U	25	7.5	ug/L			10/10/23 01:23	25
Chlorobenzene	3.8	U	25	3.8	ug/L			10/10/23 01:23	25
Chloroethane	120	U	130	120	ug/L			10/10/23 01:23	25
Chloroform	6.8	U	25	6.8	ug/L			10/10/23 01:23	25
Chloromethane	14	U	25	14	ug/L			10/10/23 01:23	25
cis-1,2-Dichloroethene	**930**		25	6.3	ug/L			10/10/23 01:23	25
cis-1,3-Dichloropropene	6.5	U	25	6.5	ug/L			10/10/23 01:23	25
Cyclohexane	7.0	U	25	7.0	ug/L			10/10/23 01:23	25
Dibromochloromethane	9.8	U	25	9.8	ug/L			10/10/23 01:23	25
Dichlorodifluoromethane	9.0	U	25	9.0	ug/L			10/10/23 01:23	25
Ethylbenzene	5.0	U	25	5.0	ug/L			10/10/23 01:23	25
Isopropylbenzene	6.5	U	25	6.5	ug/L			10/10/23 01:23	25
m,p-Xylenes	12	U	25	12	ug/L			10/10/23 01:23	25
Methyl acetate	80	U	130	80	ug/L			10/10/23 01:23	25
Methyl tert-butyl ether	20	U	130	20	ug/L			10/10/23 01:23	25
Methylene Chloride	80	U	130	80	ug/L			10/10/23 01:23	25

Client Sample ID: LC34-DPT0960-025.0-20231004
Lab Sample ID: 670-28030-22

Date Collected: 10/04/23 12:40
Matrix: Water
Date Received: 10/05/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	6.5	U	25	6.5	ug/L			10/10/23 01:23	25
Styrene	6.8	U	25	6.8	ug/L			10/10/23 01:23	25
Tetrachloroethene	8.8	U	25	8.8	ug/L			10/10/23 01:23	25
Toluene	6.3	U	25	6.3	ug/L			10/10/23 01:23	25
trans-1,2-Dichloroethene	**9.1**	**I**	25	8.5	ug/L			10/10/23 01:23	25
trans-1,3-Dichloropropene	5.8	U	25	5.8	ug/L			10/10/23 01:23	25
Trichloroethene	5.0	U	25	5.0	ug/L			10/10/23 01:23	25
Trichlorofluoromethane	8.3	U	25	8.3	ug/L			10/10/23 01:23	25
Vinyl chloride	**1800**		25	10	ug/L			10/10/23 01:23	25
Xylenes, Total	5.8	U	25	5.8	ug/L			10/10/23 01:23	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*60 - 124*		*10/10/23 01:23*	*25*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*10/10/23 01:23*	*25*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*10/10/23 01:23*	*25*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/10/23 01:23*	*25*

Client Sample ID: LC34-DPT0960-034.0-20231004
Lab Sample ID: 670-28030-23

Date Collected: 10/04/23 13:00
Matrix: Water
Date Received: 10/05/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/09/23 14:24	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/09/23 14:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/09/23 14:24	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/09/23 14:24	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/09/23 14:24	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/09/23 14:24	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/09/23 14:24	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/09/23 14:24	1
1,2-Dibromoethane (EDB)	0.33	U	2.0	0.33	ug/L			10/09/23 14:24	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 14:24	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/09/23 14:24	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/09/23 14:24	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 14:24	1
1,4-Dichlorobenzene	0.31	U	2.0	0.31	ug/L			10/09/23 14:24	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/09/23 14:24	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/09/23 14:24	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/09/23 14:24	1
Acetone	3.7	U	10	3.7	ug/L			10/09/23 14:24	1
Benzene	0.27	U	1.0	0.27	ug/L			10/09/23 14:24	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/09/23 14:24	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/09/23 14:24	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/09/23 14:24	1
Carbon disulfide	**0.77**	**I**	2.0	0.43	ug/L			10/09/23 14:24	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/09/23 14:24	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/09/23 14:24	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/09/23 14:24	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/09/23 14:24	1

Client Sample ID: LC34-DPT0960-034.0-20231004
Lab Sample ID: 670-28030-23

Date Collected: 10/04/23 13:00
Matrix: Water
Date Received: 10/05/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	0.54	U	1.0	0.54	ug/L			10/09/23 14:24	1
cis-1,2-Dichloroethene	**1.6**		1.0	0.25	ug/L			10/09/23 14:24	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/09/23 14:24	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/09/23 14:24	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/09/23 14:24	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/09/23 14:24	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/09/23 14:24	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/09/23 14:24	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/09/23 14:24	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/09/23 14:24	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/09/23 14:24	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/09/23 14:24	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/09/23 14:24	1
Styrene	0.27	U	1.0	0.27	ug/L			10/09/23 14:24	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/09/23 14:24	1
Toluene	0.25	U	1.0	0.25	ug/L			10/09/23 14:24	1
trans-1,2-Dichloroethene	**2.5**		1.0	0.34	ug/L			10/09/23 14:24	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/09/23 14:24	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/09/23 14:24	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/09/23 14:24	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/09/23 14:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*60 - 124*		*10/09/23 14:24*	*1*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*10/09/23 14:24*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*10/09/23 14:24*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/09/23 14:24*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	**3600**		25	10	ug/L			10/09/23 23:37	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*60 - 124*		*10/09/23 23:37*	*25*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*10/09/23 23:37*	*25*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*10/09/23 23:37*	*25*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/09/23 23:37*	*25*

Client Sample ID: LC34-DPT0960-038.0-20231004
Lab Sample ID: 670-28030-24

Date Collected: 10/04/23 13:20
Matrix: Water
Date Received: 10/05/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/09/23 14:43	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/09/23 14:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/09/23 14:43	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/09/23 14:43	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/09/23 14:43	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/09/23 14:43	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/09/23 14:43	1

Client Sample ID: LC34-DPT0960-038.0-20231004
Lab Sample ID: 670-28030-24
Date Collected: 10/04/23 13:20
Matrix: Water
Date Received: 10/05/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/09/23 14:43	1
1,2-Dibromoethane (EDB)	0.33	U	2.0	0.33	ug/L			10/09/23 14:43	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 14:43	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/09/23 14:43	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/09/23 14:43	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 14:43	1
1,4-Dichlorobenzene	0.31	U	2.0	0.31	ug/L			10/09/23 14:43	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/09/23 14:43	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/09/23 14:43	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/09/23 14:43	1
Acetone	3.7	U	10	3.7	ug/L			10/09/23 14:43	1
Benzene	0.27	U	1.0	0.27	ug/L			10/09/23 14:43	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/09/23 14:43	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/09/23 14:43	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/09/23 14:43	1
Carbon disulfide	**1.8**	**I**	2.0	0.43	ug/L			10/09/23 14:43	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/09/23 14:43	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/09/23 14:43	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/09/23 14:43	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/09/23 14:43	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/09/23 14:43	1
cis-1,2-Dichloroethene	**24**		1.0	0.25	ug/L			10/09/23 14:43	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/09/23 14:43	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/09/23 14:43	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/09/23 14:43	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/09/23 14:43	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/09/23 14:43	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/09/23 14:43	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/09/23 14:43	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/09/23 14:43	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/09/23 14:43	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/09/23 14:43	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/09/23 14:43	1
Styrene	0.27	U	1.0	0.27	ug/L			10/09/23 14:43	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/09/23 14:43	1
Toluene	0.25	U	1.0	0.25	ug/L			10/09/23 14:43	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/09/23 14:43	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/09/23 14:43	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/09/23 14:43	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/09/23 14:43	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/09/23 14:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*60 - 124*		*10/09/23 14:43*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*10/09/23 14:43*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*10/09/23 14:43*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/09/23 14:43*	*1*

Client: Tetra Tech, Inc.
Job ID: 670-28030-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT0960-038.0-20231004
Lab Sample ID: 670-28030-24
Date Collected: 10/04/23 13:20
Matrix: Water
Date Received: 10/05/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	2300		25	10	ug/L			10/09/23 23:58	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*60 - 124*		*10/09/23 23:58*	*25*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*10/09/23 23:58*	*25*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*10/09/23 23:58*	*25*
Toluene-d8 (Surr)	*102*		*70 - 130*		*10/09/23 23:58*	*25*

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28030-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(60-124)	(70-130)	(70-130)	(70-130)
670-28030-1	LC34-DPT0957-008.0-20231003	83	106	97	99
670-28030-2	LC34-DPT0957-013.0-20231003	85	99	98	100
670-28030-3	LC34-DPT0957-018.0-20231003	91	98	101	100
670-28030-4	LC34-DPT0957-025.0-20231003	90	98	99	101
670-28030-4 - DL	LC34-DPT0957-025.0-20231003	94	102	100	101
670-28030-5 - DL	LC34-DPT0957-034.0-20231003	88	101	98	100
670-28030-5	LC34-DPT0957-034.0-20231003	90	98	99	101
670-28030-6	LC34-DPT0957-038.0-20231003	88	99	97	100
670-28030-7	LC34-DPT0958-008.0-20231003	90	102	99	100
670-28030-8	LC34-DPT0958-013.0-20231003	87	101	99	101
670-28030-9	LC34-DPT0958-018.0-20231004	88	100	99	100
670-28030-10	LC34-DPT0958-025.0-20231004	91	100	99	101
670-28030-11	LC34-DPT0958-034.0-20231004	88	95	99	99
670-28030-12	LC34-DPT0958-038.0-20231004	88	98	99	101
670-28030-12 - DL	LC34-DPT0958-038.0-20231004	93	100	99	101
670-28030-13	LC34-DPT0959-008.0-20231004	91	103	98	100
670-28030-14	LC34-DPT0959-013.0-20231004	91	102	99	100
670-28030-15	LC34-DPT0959-018.0-20231004	91	100	99	101
670-28030-16	LC34-DPT0959-025.0-20231004	90	100	99	101
670-28030-17	LC34-DPT0959-034.0-20231004	91	100	100	101
670-28030-18 - DL	LC34-DPT0959-038.0-20231004	92	98	99	100
670-28030-18	LC34-DPT0959-038.0-20231004	89	99	100	101
670-28030-19	LC34-DPT0960-008.0-20231004	90	101	99	100
670-28030-20	LC34-DPT0960-013.0-20231004	89	101	100	100
670-28030-21	LC34-DPT0960-018.0-20231004	89	100	100	100
670-28030-22	LC34-DPT0960-025.0-20231004	91	98	100	100
670-28030-23	LC34-DPT0960-034.0-20231004	89	97	99	100
670-28030-23 - DL	LC34-DPT0960-034.0-20231004	91	100	99	101

Surrogate Summary

Client: Tetra Tech, Inc. Job ID: 670-28030-1
Project/Site: NASA KSC LC34 DPT

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(60-124)	(70-130)	(70-130)	(70-130)
670-28030-24	LC34-DPT0960-038.0-20231004	90	99	100	100
670-28030-24 - DL	LC34-DPT0960-038.0-20231004	91	97	100	102
LCS 680-801601/3	Lab Control Sample	97	99	100	100
LCS 680-801776/3	Lab Control Sample	98	102	101	101
LCS 680-801823/4	Lab Control Sample	100	98	101	101
LCSD 680-801601/4	Lab Control Sample Dup	102	99	103	101
LCSD 680-801776/4	Lab Control Sample Dup	103	102	105	103
LCSD 680-801823/5	Lab Control Sample Dup	101	100	100	100
MB 680-801601/7	Method Blank	86	101	96	100
MB 680-801776/7	Method Blank	90	101	97	99
MB 680-801823/8	Method Blank	88	100	99	100

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 680-801601/7
Matrix: Water
Analysis Batch: 801601

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/09/23 10:01	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/09/23 10:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/09/23 10:01	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/09/23 10:01	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/09/23 10:01	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/09/23 10:01	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/09/23 10:01	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/09/23 10:01	1
1,2-Dibromoethane (EDB)	0.33	U	2.0	0.33	ug/L			10/09/23 10:01	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 10:01	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/09/23 10:01	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/09/23 10:01	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 10:01	1
1,4-Dichlorobenzene	0.31	U	2.0	0.31	ug/L			10/09/23 10:01	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/09/23 10:01	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/09/23 10:01	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/09/23 10:01	1
Acetone	3.7	U	10	3.7	ug/L			10/09/23 10:01	1
Benzene	0.27	U	1.0	0.27	ug/L			10/09/23 10:01	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/09/23 10:01	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/09/23 10:01	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/09/23 10:01	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/09/23 10:01	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/09/23 10:01	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/09/23 10:01	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/09/23 10:01	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/09/23 10:01	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/09/23 10:01	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/09/23 10:01	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/09/23 10:01	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/09/23 10:01	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/09/23 10:01	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/09/23 10:01	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/09/23 10:01	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/09/23 10:01	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/09/23 10:01	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/09/23 10:01	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/09/23 10:01	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/09/23 10:01	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/09/23 10:01	1
Styrene	0.27	U	1.0	0.27	ug/L			10/09/23 10:01	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/09/23 10:01	1
Toluene	0.25	U	1.0	0.25	ug/L			10/09/23 10:01	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/09/23 10:01	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/09/23 10:01	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/09/23 10:01	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/09/23 10:01	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/09/23 10:01	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-801601/7
Matrix: Water
Analysis Batch: 801601

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/09/23 10:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*60 - 124*		*10/09/23 10:01*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/09/23 10:01*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*10/09/23 10:01*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/09/23 10:01*	*1*

Lab Sample ID: LCS 680-801601/3
Matrix: Water
Analysis Batch: 801601

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	53.2		ug/L		106	70 - 130
1,1,2,2-Tetrachloroethane	50.0	54.3		ug/L		109	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	55.8		ug/L		112	63 - 141
1,1,2-Trichloroethane	50.0	52.7		ug/L		105	70 - 130
1,1-Dichloroethane	50.0	52.2		ug/L		104	70 - 130
1,1-Dichloroethene	50.0	54.2		ug/L		108	70 - 130
1,2,4-Trichlorobenzene	50.0	50.5		ug/L		101	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	48.3		ug/L		97	70 - 130
1,2-Dibromoethane (EDB)	50.0	51.8		ug/L		104	70 - 130
1,2-Dichlorobenzene	50.0	54.6		ug/L		109	70 - 130
1,2-Dichloroethane	50.0	51.2		ug/L		102	70 - 130
1,2-Dichloropropane	50.0	52.8		ug/L		106	70 - 130
1,3-Dichlorobenzene	50.0	50.3		ug/L		101	70 - 130
1,4-Dichlorobenzene	50.0	51.0		ug/L		102	70 - 130
2-Butanone (MEK)	250	240		ug/L		96	69 - 120
2-Hexanone	250	231		ug/L		92	70 - 130
4-Methyl-2-pentanone	250	251		ug/L		101	68 - 120
Acetone	250	256		ug/L		102	67 - 120
Benzene	50.0	52.2		ug/L		104	70 - 130
Bromodichloromethane	50.0	52.9		ug/L		106	70 - 130
Bromoform	50.0	45.3		ug/L		91	69 - 129
Bromomethane	50.0	52.8		ug/L		106	28 - 192
Carbon disulfide	50.0	53.0		ug/L		106	70 - 130
Carbon tetrachloride	50.0	54.5		ug/L		109	70 - 130
Chlorobenzene	50.0	52.3		ug/L		105	70 - 130
Chloroethane	50.0	53.8		ug/L		108	31 - 213
Chloroform	50.0	48.3		ug/L		97	70 - 130
Chloromethane	50.0	50.0		ug/L		100	59 - 127
cis-1,2-Dichloroethene	50.0	52.6		ug/L		105	70 - 130
cis-1,3-Dichloropropene	50.0	48.7		ug/L		97	70 - 130
Cyclohexane	50.0	53.2		ug/L		106	23 - 175
Dibromochloromethane	50.0	52.9		ug/L		106	70 - 130
Dichlorodifluoromethane	50.0	48.7		ug/L		97	70 - 130
Ethylbenzene	50.0	55.5		ug/L		111	70 - 130
Isopropylbenzene	50.0	48.2		ug/L		96	70 - 130

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-801601/3
Matrix: Water
Analysis Batch: 801601

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
m,p-Xylenes	50.0	56.3		ug/L		113	70 - 130
Methyl acetate	100	99.0		ug/L		99	67 - 120
Methyl tert-butyl ether	50.0	54.5		ug/L		109	70 - 130
Methylene Chloride	50.0	52.3		ug/L		105	70 - 130
o-Xylene	50.0	47.6		ug/L		95	70 - 130
Styrene	50.0	47.7		ug/L		95	70 - 130
Tetrachloroethene	50.0	51.8		ug/L		104	70 - 130
Toluene	50.0	53.8		ug/L		108	70 - 130
trans-1,2-Dichloroethene	50.0	55.3		ug/L		111	70 - 130
trans-1,3-Dichloropropene	50.0	47.4		ug/L		95	70 - 130
Trichloroethene	50.0	50.5		ug/L		101	70 - 130
Trichlorofluoromethane	50.0	56.1		ug/L		112	63 - 142
Vinyl chloride	50.0	52.6		ug/L		105	66 - 129
Xylenes, Total	100	104		ug/L		104	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 124*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*100*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 680-801601/4
Matrix: Water
Analysis Batch: 801601

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	50.0	52.7		ug/L		105	70 - 130	1	30
1,1,2,2-Tetrachloroethane	50.0	57.0		ug/L		114	70 - 130	5	30
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	53.9		ug/L		108	63 - 141	3	30
1,1,2-Trichloroethane	50.0	55.8		ug/L		112	70 - 130	6	30
1,1-Dichloroethane	50.0	52.1		ug/L		104	70 - 130	0	30
1,1-Dichloroethene	50.0	51.2		ug/L		102	70 - 130	6	20
1,2,4-Trichlorobenzene	50.0	55.9		ug/L		112	70 - 130	10	30
1,2-Dibromo-3-Chloropropane	50.0	53.5		ug/L		107	70 - 130	10	30
1,2-Dibromoethane (EDB)	50.0	55.0		ug/L		110	70 - 130	6	30
1,2-Dichlorobenzene	50.0	55.0		ug/L		110	70 - 130	1	30
1,2-Dichloroethane	50.0	53.5		ug/L		107	70 - 130	4	50
1,2-Dichloropropane	50.0	53.7		ug/L		107	70 - 130	2	20
1,3-Dichlorobenzene	50.0	52.9		ug/L		106	70 - 130	5	30
1,4-Dichlorobenzene	50.0	51.5		ug/L		103	70 - 130	1	30
2-Butanone (MEK)	250	262		ug/L		105	69 - 120	9	30
2-Hexanone	250	254		ug/L		102	70 - 130	10	20
4-Methyl-2-pentanone	250	282		ug/L		113	68 - 120	12	30
Acetone	250	280		ug/L		112	67 - 120	9	30
Benzene	50.0	52.1		ug/L		104	70 - 130	0	30
Bromodichloromethane	50.0	54.5		ug/L		109	70 - 130	3	30
Bromoform	50.0	49.8		ug/L		100	69 - 129	10	30
Bromomethane	50.0	53.4		ug/L		107	28 - 192	1	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-801601/4
Matrix: Water
Analysis Batch: 801601

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon disulfide			50.0	50.1		ug/L		100	70 - 130	6	30
Carbon tetrachloride			50.0	52.7		ug/L		105	70 - 130	3	30
Chlorobenzene			50.0	52.6		ug/L		105	70 - 130	1	30
Chloroethane			50.0	51.6		ug/L		103	31 - 213	4	30
Chloroform			50.0	48.7		ug/L		97	70 - 130	1	30
Chloromethane			50.0	47.8		ug/L		96	59 - 127	4	30
cis-1,2-Dichloroethene			50.0	52.9		ug/L		106	70 - 130	1	30
cis-1,3-Dichloropropene			50.0	50.5		ug/L		101	70 - 130	4	20
Cyclohexane			50.0	50.3		ug/L		101	23 - 175	6	30
Dibromochloromethane			50.0	57.2		ug/L		114	70 - 130	8	30
Dichlorodifluoromethane			50.0	45.4		ug/L		91	70 - 130	7	40
Ethylbenzene			50.0	54.5		ug/L		109	70 - 130	2	20
Isopropylbenzene			50.0	47.4		ug/L		95	70 - 130	2	30
m,p-Xylenes			50.0	55.2		ug/L		110	70 - 130	2	30
Methyl acetate			100	108		ug/L		108	67 - 120	9	30
Methyl tert-butyl ether			50.0	57.8		ug/L		116	70 - 130	6	30
Methylene Chloride			50.0	53.1		ug/L		106	70 - 130	1	30
o-Xylene			50.0	47.5		ug/L		95	70 - 130	0	30
Styrene			50.0	48.3		ug/L		97	70 - 130	1	30
Tetrachloroethene			50.0	51.6		ug/L		103	70 - 130	0	30
Toluene			50.0	53.6		ug/L		107	70 - 130	0	30
trans-1,2-Dichloroethene			50.0	53.6		ug/L		107	70 - 130	3	30
trans-1,3-Dichloropropene			50.0	49.9		ug/L		100	70 - 130	5	30
Trichloroethene			50.0	51.3		ug/L		103	70 - 130	2	30
Trichlorofluoromethane			50.0	52.7		ug/L		105	63 - 142	6	30
Vinyl chloride			50.0	48.7		ug/L		97	66 - 129	8	30
Xylenes, Total			100	103		ug/L		103	70 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 124*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*103*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*

Lab Sample ID: MB 680-801776/7
Matrix: Water
Analysis Batch: 801776

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/09/23 20:58	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/09/23 20:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/09/23 20:58	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/09/23 20:58	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/09/23 20:58	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/09/23 20:58	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/09/23 20:58	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/09/23 20:58	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/09/23 20:58	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-801776/7
Matrix: Water
Analysis Batch: 801776

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 20:58	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/09/23 20:58	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/09/23 20:58	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 20:58	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 20:58	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/09/23 20:58	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/09/23 20:58	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/09/23 20:58	1
Acetone	3.7	U	10	3.7	ug/L			10/09/23 20:58	1
Benzene	0.27	U	1.0	0.27	ug/L			10/09/23 20:58	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/09/23 20:58	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/09/23 20:58	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/09/23 20:58	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/09/23 20:58	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/09/23 20:58	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/09/23 20:58	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/09/23 20:58	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/09/23 20:58	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/09/23 20:58	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/09/23 20:58	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/09/23 20:58	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/09/23 20:58	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/09/23 20:58	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/09/23 20:58	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/09/23 20:58	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/09/23 20:58	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/09/23 20:58	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/09/23 20:58	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/09/23 20:58	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/09/23 20:58	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/09/23 20:58	1
Styrene	0.27	U	1.0	0.27	ug/L			10/09/23 20:58	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/09/23 20:58	1
Toluene	0.25	U	1.0	0.25	ug/L			10/09/23 20:58	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/09/23 20:58	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/09/23 20:58	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/09/23 20:58	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/09/23 20:58	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/09/23 20:58	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/09/23 20:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*60 - 124*		*10/09/23 20:58*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/09/23 20:58*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*10/09/23 20:58*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*10/09/23 20:58*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-801776/3
Matrix: Water
Analysis Batch: 801776

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	53.2		ug/L		106	70 - 130
1,1,2,2-Tetrachloroethane	50.0	52.8		ug/L		106	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	55.8		ug/L		112	63 - 141
1,1,2-Trichloroethane	50.0	51.6		ug/L		103	70 - 130
1,1-Dichloroethane	50.0	52.9		ug/L		106	70 - 130
1,1-Dichloroethene	50.0	55.0		ug/L		110	70 - 130
1,2,4-Trichlorobenzene	50.0	49.5		ug/L		99	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	45.6		ug/L		91	70 - 130
1,2-Dibromoethane (EDB)	50.0	50.7		ug/L		101	70 - 130
1,2-Dichlorobenzene	50.0	55.1		ug/L		110	70 - 130
1,2-Dichloroethane	50.0	50.8		ug/L		102	70 - 130
1,2-Dichloropropane	50.0	52.6		ug/L		105	70 - 130
1,3-Dichlorobenzene	50.0	53.0		ug/L		106	70 - 130
1,4-Dichlorobenzene	50.0	51.8		ug/L		104	70 - 130
2-Butanone (MEK)	250	217		ug/L		87	69 - 120
2-Hexanone	250	226		ug/L		90	70 - 130
4-Methyl-2-pentanone	250	246		ug/L		99	68 - 120
Acetone	250	239		ug/L		96	67 - 120
Benzene	50.0	52.7		ug/L		105	70 - 130
Bromodichloromethane	50.0	52.4		ug/L		105	70 - 130
Bromoform	50.0	43.0		ug/L		86	69 - 129
Bromomethane	50.0	60.8		ug/L		122	28 - 192
Carbon disulfide	50.0	53.2		ug/L		106	70 - 130
Carbon tetrachloride	50.0	53.9		ug/L		108	70 - 130
Chlorobenzene	50.0	53.0		ug/L		106	70 - 130
Chloroethane	50.0	64.3		ug/L		129	31 - 213
Chloroform	50.0	48.3		ug/L		97	70 - 130
Chloromethane	50.0	52.9		ug/L		106	59 - 127
cis-1,2-Dichloroethene	50.0	53.6		ug/L		107	70 - 130
cis-1,3-Dichloropropene	50.0	48.2		ug/L		96	70 - 130
Cyclohexane	50.0	53.6		ug/L		107	23 - 175
Dibromochloromethane	50.0	51.9		ug/L		104	70 - 130
Dichlorodifluoromethane	50.0	51.5		ug/L		103	70 - 130
Ethylbenzene	50.0	56.4		ug/L		113	70 - 130
Isopropylbenzene	50.0	48.5		ug/L		97	70 - 130
m,p-Xylenes	50.0	55.9		ug/L		112	70 - 130
Methyl acetate	100	102		ug/L		102	67 - 120
Methyl tert-butyl ether	50.0	52.5		ug/L		105	70 - 130
Methylene Chloride	50.0	53.5		ug/L		107	70 - 130
o-Xylene	50.0	48.3		ug/L		97	70 - 130
Styrene	50.0	48.3		ug/L		97	70 - 130
Tetrachloroethene	50.0	51.8		ug/L		104	70 - 130
Toluene	50.0	53.7		ug/L		107	70 - 130
trans-1,2-Dichloroethene	50.0	55.5		ug/L		111	70 - 130
trans-1,3-Dichloropropene	50.0	46.5		ug/L		93	70 - 130
Trichloroethene	50.0	51.2		ug/L		102	70 - 130
Trichlorofluoromethane	50.0	58.8		ug/L		118	63 - 142
Vinyl chloride	50.0	56.5		ug/L		113	66 - 129

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-801776/3
Matrix: Water
Analysis Batch: 801776

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Xylenes, Total			100	104		ug/L		104	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 124*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 680-801776/4
Matrix: Water
Analysis Batch: 801776

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane			50.0	52.9		ug/L		106	70 - 130	1	30
1,1,2,2-Tetrachloroethane			50.0	58.4		ug/L		117	70 - 130	10	30
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	54.9		ug/L		110	63 - 141	2	30
1,1,2-Trichloroethane			50.0	56.7		ug/L		113	70 - 130	9	30
1,1-Dichloroethane			50.0	53.7		ug/L		107	70 - 130	2	30
1,1-Dichloroethene			50.0	52.9		ug/L		106	70 - 130	4	20
1,2,4-Trichlorobenzene			50.0	55.9		ug/L		112	70 - 130	12	30
1,2-Dibromo-3-Chloropropane			50.0	52.3		ug/L		105	70 - 130	14	30
1,2-Dibromoethane (EDB)			50.0	55.6		ug/L		111	70 - 130	9	30
1,2-Dichlorobenzene			50.0	56.1		ug/L		112	70 - 130	2	30
1,2-Dichloroethane			50.0	55.3		ug/L		111	70 - 130	8	50
1,2-Dichloropropane			50.0	55.1		ug/L		110	70 - 130	5	20
1,3-Dichlorobenzene			50.0	53.0		ug/L		106	70 - 130	0	30
1,4-Dichlorobenzene			50.0	52.4		ug/L		105	70 - 130	1	30
2-Butanone (MEK)			250	245		ug/L		98	69 - 120	12	30
2-Hexanone			250	255		ug/L		102	70 - 130	12	20
4-Methyl-2-pentanone			250	274		ug/L		110	68 - 120	11	30
Acetone			250	259		ug/L		104	67 - 120	8	30
Benzene			50.0	53.4		ug/L		107	70 - 130	1	30
Bromodichloromethane			50.0	55.6		ug/L		111	70 - 130	6	30
Bromoform			50.0	47.8		ug/L		96	69 - 129	10	30
Bromomethane			50.0	59.9		ug/L		120	28 - 192	1	30
Carbon disulfide			50.0	51.0		ug/L		102	70 - 130	4	30
Carbon tetrachloride			50.0	52.8		ug/L		106	70 - 130	2	30
Chlorobenzene			50.0	53.0		ug/L		106	70 - 130	0	30
Chloroethane			50.0	54.5		ug/L		109	31 - 213	16	30
Chloroform			50.0	49.8		ug/L		100	70 - 130	3	30
Chloromethane			50.0	48.5		ug/L		97	59 - 127	9	30
cis-1,2-Dichloroethene			50.0	54.5		ug/L		109	70 - 130	2	30
cis-1,3-Dichloropropene			50.0	50.4		ug/L		101	70 - 130	4	20
Cyclohexane			50.0	52.1		ug/L		104	23 - 175	3	30
Dibromochloromethane			50.0	56.2		ug/L		112	70 - 130	8	30
Dichlorodifluoromethane			50.0	48.6		ug/L		97	70 - 130	6	40
Ethylbenzene			50.0	55.9		ug/L		112	70 - 130	1	20
Isopropylbenzene			50.0	48.6		ug/L		97	70 - 130	0	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-801776/4
Matrix: Water
Analysis Batch: 801776

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m,p-Xylenes			50.0	55.9		ug/L		112	70 - 130	0	30
Methyl acetate			100	113		ug/L		113	67 - 120	11	30
Methyl tert-butyl ether			50.0	57.6		ug/L		115	70 - 130	9	30
Methylene Chloride			50.0	54.5		ug/L		109	70 - 130	2	30
o-Xylene			50.0	48.5		ug/L		97	70 - 130	0	30
Styrene			50.0	48.9		ug/L		98	70 - 130	1	30
Tetrachloroethene			50.0	52.8		ug/L		106	70 - 130	2	30
Toluene			50.0	55.3		ug/L		111	70 - 130	3	30
trans-1,2-Dichloroethene			50.0	55.4		ug/L		111	70 - 130	0	30
trans-1,3-Dichloropropene			50.0	49.7		ug/L		99	70 - 130	7	30
Trichloroethene			50.0	52.3		ug/L		105	70 - 130	2	30
Trichlorofluoromethane			50.0	56.0		ug/L		112	63 - 142	5	30
Vinyl chloride			50.0	51.3		ug/L		103	66 - 129	10	30
Xylenes, Total			100	104		ug/L		104	70 - 130	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 124*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
Dibromofluoromethane (Surr)	*105*		*70 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*

Lab Sample ID: MB 680-801823/8
Matrix: Water
Analysis Batch: 801823

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/10/23 12:37	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/10/23 12:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/10/23 12:37	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/10/23 12:37	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/10/23 12:37	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/10/23 12:37	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/10/23 12:37	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/10/23 12:37	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/10/23 12:37	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/10/23 12:37	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/10/23 12:37	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/10/23 12:37	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/10/23 12:37	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/10/23 12:37	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/10/23 12:37	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/10/23 12:37	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/10/23 12:37	1
Acetone	3.7	U	10	3.7	ug/L			10/10/23 12:37	1
Benzene	0.27	U	1.0	0.27	ug/L			10/10/23 12:37	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/10/23 12:37	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/10/23 12:37	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/10/23 12:37	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-801823/8
Matrix: Water
Analysis Batch: 801823

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/10/23 12:37	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/10/23 12:37	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/10/23 12:37	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/10/23 12:37	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/10/23 12:37	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/10/23 12:37	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/10/23 12:37	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/10/23 12:37	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/10/23 12:37	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/10/23 12:37	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/10/23 12:37	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/10/23 12:37	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/10/23 12:37	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/10/23 12:37	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/10/23 12:37	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/10/23 12:37	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/10/23 12:37	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/10/23 12:37	1
Styrene	0.27	U	1.0	0.27	ug/L			10/10/23 12:37	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/10/23 12:37	1
Toluene	0.25	U	1.0	0.25	ug/L			10/10/23 12:37	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/10/23 12:37	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/10/23 12:37	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/10/23 12:37	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/10/23 12:37	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/10/23 12:37	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/10/23 12:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*60 - 124*		*10/10/23 12:37*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*10/10/23 12:37*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*10/10/23 12:37*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/10/23 12:37*	*1*

Lab Sample ID: LCS 680-801823/4
Matrix: Water
Analysis Batch: 801823

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	52.9		ug/L		106	70 - 130
1,1,2,2-Tetrachloroethane	50.0	53.7		ug/L		107	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	53.8		ug/L		108	63 - 141
1,1,2-Trichloroethane	50.0	53.9		ug/L		108	70 - 130
1,1-Dichloroethane	50.0	53.3		ug/L		107	70 - 130
1,1-Dichloroethene	50.0	53.7		ug/L		107	70 - 130
1,2,4-Trichlorobenzene	50.0	51.6		ug/L		103	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	49.2		ug/L		98	70 - 130
1,2-Dibromoethane (EDB)	50.0	52.6		ug/L		105	70 - 130

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28030-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-801823/4
Matrix: Water
Analysis Batch: 801823

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichlorobenzene	50.0	53.6		ug/L		107	70 - 130
1,2-Dichloroethane	50.0	53.9		ug/L		108	70 - 130
1,2-Dichloropropane	50.0	53.0		ug/L		106	70 - 130
1,3-Dichlorobenzene	50.0	51.7		ug/L		103	70 - 130
1,4-Dichlorobenzene	50.0	50.2		ug/L		100	70 - 130
2-Butanone (MEK)	250	220		ug/L		88	69 - 120
2-Hexanone	250	259		ug/L		103	70 - 130
4-Methyl-2-pentanone	250	289		ug/L		116	68 - 120
Acetone	250	244		ug/L		98	67 - 120
Benzene	50.0	52.0		ug/L		104	70 - 130
Bromodichloromethane	50.0	53.6		ug/L		107	70 - 130
Bromoform	50.0	44.8		ug/L		90	69 - 129
Bromomethane	50.0	60.3		ug/L		121	28 - 192
Carbon disulfide	50.0	54.7		ug/L		109	70 - 130
Carbon tetrachloride	50.0	53.8		ug/L		108	70 - 130
Chlorobenzene	50.0	50.9		ug/L		102	70 - 130
Chloroethane	50.0	51.0		ug/L		102	31 - 213
Chloroform	50.0	48.2		ug/L		96	70 - 130
Chloromethane	50.0	53.9		ug/L		108	59 - 127
cis-1,2-Dichloroethene	50.0	54.0		ug/L		108	70 - 130
cis-1,3-Dichloropropene	50.0	48.7		ug/L		97	70 - 130
Cyclohexane	50.0	51.2		ug/L		102	23 - 175
Dibromochloromethane	50.0	53.6		ug/L		107	70 - 130
Dichlorodifluoromethane	50.0	55.5		ug/L		111	70 - 130
Ethylbenzene	50.0	54.6		ug/L		109	70 - 130
Isopropylbenzene	50.0	47.2		ug/L		94	70 - 130
m,p-Xylenes	50.0	54.5		ug/L		109	70 - 130
Methyl acetate	100	105		ug/L		105	67 - 120
Methyl tert-butyl ether	50.0	54.1		ug/L		108	70 - 130
Methylene Chloride	50.0	52.6		ug/L		105	70 - 130
o-Xylene	50.0	46.7		ug/L		93	70 - 130
Styrene	50.0	47.4		ug/L		95	70 - 130
Tetrachloroethene	50.0	50.8		ug/L		102	70 - 130
Toluene	50.0	53.7		ug/L		107	70 - 130
trans-1,2-Dichloroethene	50.0	54.6		ug/L		109	70 - 130
trans-1,3-Dichloropropene	50.0	48.0		ug/L		96	70 - 130
Trichloroethene	50.0	49.9		ug/L		100	70 - 130
Trichlorofluoromethane	50.0	54.9		ug/L		110	63 - 142
Vinyl chloride	50.0	56.5		ug/L		113	66 - 129
Xylenes, Total	100	101		ug/L		101	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 124*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-801823/5
Matrix: Water
Analysis Batch: 801823

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	50.0	52.5		ug/L		105	70 - 130	1	30
1,1,2,2-Tetrachloroethane	50.0	55.9		ug/L		112	70 - 130	4	30
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	52.9		ug/L		106	63 - 141	2	30
1,1,2-Trichloroethane	50.0	54.7		ug/L		109	70 - 130	2	30
1,1-Dichloroethane	50.0	53.1		ug/L		106	70 - 130	0	30
1,1-Dichloroethene	50.0	52.9		ug/L		106	70 - 130	2	20
1,2,4-Trichlorobenzene	50.0	54.6		ug/L		109	70 - 130	6	30
1,2-Dibromo-3-Chloropropane	50.0	52.3		ug/L		105	70 - 130	6	30
1,2-Dibromoethane (EDB)	50.0	54.0		ug/L		108	70 - 130	2	30
1,2-Dichlorobenzene	50.0	54.1		ug/L		108	70 - 130	1	30
1,2-Dichloroethane	50.0	54.4		ug/L		109	70 - 130	1	50
1,2-Dichloropropane	50.0	53.1		ug/L		106	70 - 130	0	20
1,3-Dichlorobenzene	50.0	51.9		ug/L		104	70 - 130	0	30
1,4-Dichlorobenzene	50.0	50.5		ug/L		101	70 - 130	1	30
2-Butanone (MEK)	250	230		ug/L		92	69 - 120	5	30
2-Hexanone	250	267		ug/L		107	70 - 130	3	20
4-Methyl-2-pentanone	250	293		ug/L		117	68 - 120	1	30
Acetone	250	252		ug/L		101	67 - 120	3	30
Benzene	50.0	51.6		ug/L		103	70 - 130	1	30
Bromodichloromethane	50.0	53.9		ug/L		108	70 - 130	1	30
Bromoform	50.0	46.3		ug/L		93	69 - 129	3	30
Bromomethane	50.0	61.8		ug/L		124	28 - 192	2	30
Carbon disulfide	50.0	53.6		ug/L		107	70 - 130	2	30
Carbon tetrachloride	50.0	53.6		ug/L		107	70 - 130	0	30
Chlorobenzene	50.0	51.3		ug/L		103	70 - 130	1	30
Chloroethane	50.0	48.7		ug/L		97	31 - 213	5	30
Chloroform	50.0	48.1		ug/L		96	70 - 130	0	30
Chloromethane	50.0	53.5		ug/L		107	59 - 127	1	30
cis-1,2-Dichloroethene	50.0	53.6		ug/L		107	70 - 130	1	30
cis-1,3-Dichloropropene	50.0	49.1		ug/L		98	70 - 130	1	20
Cyclohexane	50.0	51.0		ug/L		102	23 - 175	0	30
Dibromochloromethane	50.0	55.5		ug/L		111	70 - 130	3	30
Dichlorodifluoromethane	50.0	54.5		ug/L		109	70 - 130	2	40
Ethylbenzene	50.0	54.3		ug/L		109	70 - 130	0	20
Isopropylbenzene	50.0	47.5		ug/L		95	70 - 130	1	30
m,p-Xylenes	50.0	55.6		ug/L		111	70 - 130	2	30
Methyl acetate	100	104		ug/L		104	67 - 120	1	30
Methyl tert-butyl ether	50.0	55.3		ug/L		111	70 - 130	2	30
Methylene Chloride	50.0	52.4		ug/L		105	70 - 130	0	30
o-Xylene	50.0	47.9		ug/L		96	70 - 130	2	30
Styrene	50.0	46.7		ug/L		93	70 - 130	2	30
Tetrachloroethene	50.0	51.1		ug/L		102	70 - 130	0	30
Toluene	50.0	53.9		ug/L		108	70 - 130	0	30
trans-1,2-Dichloroethene	50.0	53.9		ug/L		108	70 - 130	1	30
trans-1,3-Dichloropropene	50.0	48.6		ug/L		97	70 - 130	1	30
Trichloroethene	50.0	50.3		ug/L		101	70 - 130	1	30
Trichlorofluoromethane	50.0	48.8		ug/L		98	63 - 142	12	30
Vinyl chloride	50.0	54.9		ug/L		110	66 - 129	3	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-801823/5
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 801823

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Xylenes, Total			100	104		ug/L		104	70 - 130	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 124*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
Dibromofluoromethane (Surr)	*100*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

GC/MS VOA

Analysis Batch: 801601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-28030-1	LC34-DPT0957-008.0-20231003	Total/NA	Water	8260D	
670-28030-2	LC34-DPT0957-013.0-20231003	Total/NA	Water	8260D	
670-28030-4	LC34-DPT0957-025.0-20231003	Total/NA	Water	8260D	
670-28030-5 - DL	LC34-DPT0957-034.0-20231003	Total/NA	Water	8260D	
670-28030-7	LC34-DPT0958-008.0-20231003	Total/NA	Water	8260D	
670-28030-8	LC34-DPT0958-013.0-20231003	Total/NA	Water	8260D	
670-28030-9	LC34-DPT0958-018.0-20231004	Total/NA	Water	8260D	
670-28030-10	LC34-DPT0958-025.0-20231004	Total/NA	Water	8260D	
670-28030-11	LC34-DPT0958-034.0-20231004	Total/NA	Water	8260D	
670-28030-12	LC34-DPT0958-038.0-20231004	Total/NA	Water	8260D	
670-28030-13	LC34-DPT0959-008.0-20231004	Total/NA	Water	8260D	
670-28030-14	LC34-DPT0959-013.0-20231004	Total/NA	Water	8260D	
670-28030-16	LC34-DPT0959-025.0-20231004	Total/NA	Water	8260D	
670-28030-19	LC34-DPT0960-008.0-20231004	Total/NA	Water	8260D	
670-28030-20	LC34-DPT0960-013.0-20231004	Total/NA	Water	8260D	
670-28030-23	LC34-DPT0960-034.0-20231004	Total/NA	Water	8260D	
670-28030-24	LC34-DPT0960-038.0-20231004	Total/NA	Water	8260D	
MB 680-801601/7	Method Blank	Total/NA	Water	8260D	
LCS 680-801601/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-801601/4	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 801776

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-28030-3	LC34-DPT0957-018.0-20231003	Total/NA	Water	8260D	
670-28030-4 - DL	LC34-DPT0957-025.0-20231003	Total/NA	Water	8260D	
670-28030-5	LC34-DPT0957-034.0-20231003	Total/NA	Water	8260D	
670-28030-6	LC34-DPT0957-038.0-20231003	Total/NA	Water	8260D	
670-28030-12 - DL	LC34-DPT0958-038.0-20231004	Total/NA	Water	8260D	
670-28030-15	LC34-DPT0959-018.0-20231004	Total/NA	Water	8260D	
670-28030-17	LC34-DPT0959-034.0-20231004	Total/NA	Water	8260D	
670-28030-18 - DL	LC34-DPT0959-038.0-20231004	Total/NA	Water	8260D	
670-28030-22	LC34-DPT0960-025.0-20231004	Total/NA	Water	8260D	
670-28030-23 - DL	LC34-DPT0960-034.0-20231004	Total/NA	Water	8260D	
670-28030-24 - DL	LC34-DPT0960-038.0-20231004	Total/NA	Water	8260D	
MB 680-801776/7	Method Blank	Total/NA	Water	8260D	
LCS 680-801776/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-801776/4	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 801823

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-28030-18	LC34-DPT0959-038.0-20231004	Total/NA	Water	8260D	
670-28030-21	LC34-DPT0960-018.0-20231004	Total/NA	Water	8260D	
MB 680-801823/8	Method Blank	Total/NA	Water	8260D	
LCS 680-801823/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-801823/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Client Sample ID: LC34-DPT0957-008.0-20231003
Lab Sample ID: 670-28030-1
Date Collected: 10/03/23 14:30
Matrix: Water
Date Received: 10/05/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	801601	P1C	EET SAV	10/09/23 11:33

Client Sample ID: LC34-DPT0957-013.0-20231003
Lab Sample ID: 670-28030-2
Date Collected: 10/03/23 14:45
Matrix: Water
Date Received: 10/05/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	801601	P1C	EET SAV	10/09/23 11:52

Client Sample ID: LC34-DPT0957-018.0-20231003
Lab Sample ID: 670-28030-3
Date Collected: 10/03/23 15:00
Matrix: Water
Date Received: 10/05/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		2	801776	P1C	EET SAV	10/09/23 22:11

Client Sample ID: LC34-DPT0957-025.0-20231003
Lab Sample ID: 670-28030-4
Date Collected: 10/03/23 15:20
Matrix: Water
Date Received: 10/05/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		5	801601	P1C	EET SAV	10/09/23 15:26
Total/NA	Analysis	8260D	DL	10	801776	P1C	EET SAV	10/09/23 22:54

Client Sample ID: LC34-DPT0957-034.0-20231003
Lab Sample ID: 670-28030-5
Date Collected: 10/03/23 15:40
Matrix: Water
Date Received: 10/05/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D	DL	50	801601	P1C	EET SAV	10/09/23 15:48
Total/NA	Analysis	8260D		2	801776	P1C	EET SAV	10/09/23 22:33

Client Sample ID: LC34-DPT0957-038.0-20231003
Lab Sample ID: 670-28030-6
Date Collected: 10/03/23 16:00
Matrix: Water
Date Received: 10/05/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	801776	P1C	EET SAV	10/09/23 21:31

Client Sample ID: LC34-DPT0958-008.0-20231003
Lab Sample ID: 670-28030-7
Date Collected: 10/03/23 16:35
Matrix: Water
Date Received: 10/05/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	801601	P1C	EET SAV	10/09/23 12:11

Client Sample ID: LC34-DPT0958-013.0-20231003 — **Lab Sample ID: 670-28030-8**
Date Collected: 10/03/23 16:50 — **Matrix: Water**
Date Received: 10/05/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	801601	P1C	EET SAV	10/09/23 12:30

Client Sample ID: LC34-DPT0958-018.0-20231004 — **Lab Sample ID: 670-28030-9**
Date Collected: 10/04/23 07:55 — **Matrix: Water**
Date Received: 10/05/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	801601	P1C	EET SAV	10/09/23 12:49

Client Sample ID: LC34-DPT0958-025.0-20231004 — **Lab Sample ID: 670-28030-10**
Date Collected: 10/04/23 08:15 — **Matrix: Water**
Date Received: 10/05/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		5	801601	P1C	EET SAV	10/09/23 16:31

Client Sample ID: LC34-DPT0958-034.0-20231004 — **Lab Sample ID: 670-28030-11**
Date Collected: 10/04/23 08:35 — **Matrix: Water**
Date Received: 10/05/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		25	801601	P1C	EET SAV	10/09/23 17:06

Client Sample ID: LC34-DPT0958-038.0-20231004 — **Lab Sample ID: 670-28030-12**
Date Collected: 10/04/23 08:55 — **Matrix: Water**
Date Received: 10/05/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		10	801601	P1C	EET SAV	10/09/23 17:27
Total/NA	Analysis	8260D	DL	25	801776	P1C	EET SAV	10/09/23 23:15

Client Sample ID: LC34-DPT0959-008.0-20231004 — **Lab Sample ID: 670-28030-13**
Date Collected: 10/04/23 09:40 — **Matrix: Water**
Date Received: 10/05/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	801601	P1C	EET SAV	10/09/23 13:08

Client Sample ID: LC34-DPT0959-013.0-20231004 — **Lab Sample ID: 670-28030-14**
Date Collected: 10/04/23 09:55 — **Matrix: Water**
Date Received: 10/05/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	801601	P1C	EET SAV	10/09/23 13:27

Lab Chronicle

Client: Tetra Tech, Inc.
Job ID: 670-28030-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT0959-018.0-20231004
Lab Sample ID: 670-28030-15
Date Collected: 10/04/23 10:10
Matrix: Water
Date Received: 10/05/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	801776	P1C	EET SAV	10/09/23 21:50

Client Sample ID: LC34-DPT0959-025.0-20231004
Lab Sample ID: 670-28030-16
Date Collected: 10/04/23 10:30
Matrix: Water
Date Received: 10/05/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		2	801601	P1C	EET SAV	10/09/23 18:10

Client Sample ID: LC34-DPT0959-034.0-20231004
Lab Sample ID: 670-28030-17
Date Collected: 10/04/23 10:50
Matrix: Water
Date Received: 10/05/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		25	801776	P1C	EET SAV	10/10/23 00:41

Client Sample ID: LC34-DPT0959-038.0-20231004
Lab Sample ID: 670-28030-18
Date Collected: 10/04/23 11:10
Matrix: Water
Date Received: 10/05/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D	DL	25	801776	P1C	EET SAV	10/10/23 01:02
Total/NA	Analysis	8260D		1	801823	MLL	EET SAV	10/10/23 14:03

Client Sample ID: LC34-DPT0960-008.0-20231004
Lab Sample ID: 670-28030-19
Date Collected: 10/04/23 11:50
Matrix: Water
Date Received: 10/05/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	801601	P1C	EET SAV	10/09/23 13:46

Client Sample ID: LC34-DPT0960-013.0-20231004
Lab Sample ID: 670-28030-20
Date Collected: 10/04/23 12:05
Matrix: Water
Date Received: 10/05/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	801601	P1C	EET SAV	10/09/23 14:05

Client Sample ID: LC34-DPT0960-018.0-20231004
Lab Sample ID: 670-28030-21
Date Collected: 10/04/23 12:20
Matrix: Water
Date Received: 10/05/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	801823	MLL	EET SAV	10/10/23 14:22

Lab Chronicle

Client: Tetra Tech, Inc.
Job ID: 670-28030-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT0960-025.0-20231004
Lab Sample ID: 670-28030-22
Date Collected: 10/04/23 12:40
Matrix: Water
Date Received: 10/05/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		25	801776	P1C	EET SAV	10/10/23 01:23

Client Sample ID: LC34-DPT0960-034.0-20231004
Lab Sample ID: 670-28030-23
Date Collected: 10/04/23 13:00
Matrix: Water
Date Received: 10/05/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	801601	P1C	EET SAV	10/09/23 14:24
Total/NA	Analysis	8260D	DL	25	801776	P1C	EET SAV	10/09/23 23:37

Client Sample ID: LC34-DPT0960-038.0-20231004
Lab Sample ID: 670-28030-24
Date Collected: 10/04/23 13:20
Matrix: Water
Date Received: 10/05/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	801601	P1C	EET SAV	10/09/23 14:43
Total/NA	Analysis	8260D	DL	25	801776	P1C	EET SAV	10/09/23 23:58

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: Tetra Tech, Inc.
Job ID: 670-28030-1
Project/Site: NASA KSC LC34 DPT

Laboratory: Eurofins Savannah

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
	AFCEE	SAVLAB	
Alabama	State	41450	06-30-24
ANAB	Dept. of Defense ELAP	L2463	09-22-24
Arkansas DEQ	State	19-015-0	02-01-24
California	State	2939	06-30-24
Florida	NELAP	E87052	06-30-24
Georgia	State	E87052	06-30-24
Georgia (DW)	State	803	06-30-24
Guam	State	19-007R	04-17-24
Hawaii	State	<cert No.>	06-30-24
Illinois	NELAP	200022	11-30-23
Indiana	State	C-GA-02	06-30-24
Iowa	State	353	07-01-25
Kentucky (UST)	State	NA	06-30-24
Louisiana	NELAP	30690	06-30-24
Louisiana (All)	NELAP	30690	06-30-24
Louisiana (DW)	State	LA009	12-31-23
Maine	State	GA00006	09-25-24
Maryland	State	250	12-31-23
Massachusetts	State	M-GA006	06-30-24
Michigan	State	9925	06-30-24
Mississippi	State	<cert No.>	06-30-24
Nebraska	State	NE-OS-7-04	06-30-24
New Jersey	NELAP	GA769	06-30-24
New Mexico	State	GA00006	06-30-24
North Carolina (DW)	State	13701	07-31-24
North Carolina (WW/SW)	State	269	12-31-23
Pennsylvania	NELAP	68-00474	06-30-24
Puerto Rico	State	GA00006	01-01-24
South Carolina	State	98001	06-30-23 *
Tennessee	State	TN02961	06-30-24
Texas	NELAP	T1047004185	11-30-23
Texas	TCEQ Water Supply	T104704185	06-30-24
USDA	US Federal Programs	P330-18-00313	09-03-24
Virginia	NELAP	460161	06-14-24
Wyoming	State	8TMS-L	06-30-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Tetra Tech, Inc.
Job ID: 670-28030-1
Project/Site: NASA KSC LC34 DPT

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET SAV
5030B	Purge and Trap	SW846	EET SAV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Sample Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28030-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
670-28030-1	LC34-DPT0957-008.0-20231003	Water	10/03/23 14:30	10/05/23 08:00
670-28030-2	LC34-DPT0957-013.0-20231003	Water	10/03/23 14:45	10/05/23 08:00
670-28030-3	LC34-DPT0957-018.0-20231003	Water	10/03/23 15:00	10/05/23 08:00
670-28030-4	LC34-DPT0957-025.0-20231003	Water	10/03/23 15:20	10/05/23 08:00
670-28030-5	LC34-DPT0957-034.0-20231003	Water	10/03/23 15:40	10/05/23 08:00
670-28030-6	LC34-DPT0957-038.0-20231003	Water	10/03/23 16:00	10/05/23 08:00
670-28030-7	LC34-DPT0958-008.0-20231003	Water	10/03/23 16:35	10/05/23 08:00
670-28030-8	LC34-DPT0958-013.0-20231003	Water	10/03/23 16:50	10/05/23 08:00
670-28030-9	LC34-DPT0958-018.0-20231004	Water	10/04/23 07:55	10/05/23 08:00
670-28030-10	LC34-DPT0958-025.0-20231004	Water	10/04/23 08:15	10/05/23 08:00
670-28030-11	LC34-DPT0958-034.0-20231004	Water	10/04/23 08:35	10/05/23 08:00
670-28030-12	LC34-DPT0958-038.0-20231004	Water	10/04/23 08:55	10/05/23 08:00
670-28030-13	LC34-DPT0959-008.0-20231004	Water	10/04/23 09:40	10/05/23 08:00
670-28030-14	LC34-DPT0959-013.0-20231004	Water	10/04/23 09:55	10/05/23 08:00
670-28030-15	LC34-DPT0959-018.0-20231004	Water	10/04/23 10:10	10/05/23 08:00
670-28030-16	LC34-DPT0959-025.0-20231004	Water	10/04/23 10:30	10/05/23 08:00
670-28030-17	LC34-DPT0959-034.0-20231004	Water	10/04/23 10:50	10/05/23 08:00
670-28030-18	LC34-DPT0959-038.0-20231004	Water	10/04/23 11:10	10/05/23 08:00
670-28030-19	LC34-DPT0960-008.0-20231004	Water	10/04/23 11:50	10/05/23 08:00
670-28030-20	LC34-DPT0960-013.0-20231004	Water	10/04/23 12:05	10/05/23 08:00
670-28030-21	LC34-DPT0960-018.0-20231004	Water	10/04/23 12:20	10/05/23 08:00
670-28030-22	LC34-DPT0960-025.0-20231004	Water	10/04/23 12:40	10/05/23 08:00
670-28030-23	LC34-DPT0960-034.0-20231004	Water	10/04/23 13:00	10/05/23 08:00
670-28030-24	LC34-DPT0960-038.0-20231004	Water	10/04/23 13:20	10/05/23 08:00

Tetra Tech, Inc.

CHAIN OF CUSTODY | NUMBER No. 3756 | PAGE 1 OF 2

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G08985	KSC-LC34	Mark Jonnes	(412) 921-8622	Eurofins - Kaitlin Dylnicki
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER	PHONE NUMBER	ADDRESS
- Chuck Sorden		Chuck Sorden	(321) 591-7580	481 Newburyport Ave.
		CARRIER/WAYBILL NUMBER		CITY, STATE
				Altamonte Springs, FL

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2023	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)										COMMENTS
									G	G									
									PRESERVATIVE USED		HCl/4°C	4°C							
									TYPE OF ANALYSIS		8260D - (MOD) NASA LC34 Custom List	8260D - (MOD) NASA LC34 Custom List							
10/03	1430	LC34-DPT0957-008.0-20231003	25	6	10	GW	G	4	X	X									
	1445	LC34-DPT0957-013.0-20231003		11	15														
	1500	LC34-DPT0957-018.0-20231003		16	20														
	1520	LC34-DPT0957-025.0-20231003		23	27														
	1540	LC34-DPT0957-034.0-20231003		32	36														
	1600	LC34-DPT0957-038.0-20231003	25	36	40														
	1635	LC34-DPT0958-008.0-20231003	31	6	10														
10/03	1650	LC34-DPT0958-013.0-20231003		11	15														
10/04	0755	LC34-DPT0958-018.0-20231004		16	20														
	0815	LC34-DPT0958-025.0-20231004		23	27														
	0835	LC34-DPT0958-034.0-20231004		32	36														
	0855	LC34-DPT0958-038.0-20231004	31	36	40														
10/04	0940	LC34-DPT0959-008.0-20231004	37	6	10	GW	G	4	X	X									

670-28030 Chain of Custody

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	10/04/23	1415	1. RECEIVED BY		
2. RELINQUISHED BY			2. RECEIVED BY		
3. RELINQUISHED BY			3. RECEIVED BY	10-5-23	0900

COMMENTS 1.2 / 10.7

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY) 4/02R

Tetra Tech, Inc.

CHAIN OF CUSTODY | NUMBER No. 3757 | PAGE 2 OF 2

PROJECT NO: 112G08985	FACILITY: KSC-LC34	PROJECT MANAGER Mark Jonnet	PHONE NUMBER (412) 921-8622	LABORATORY NAME AND CONTACT: Eurofins – Kaitlin Dylnicki
SAMPLERS (SIGNATURE) – Chuck Sorden		FIELD OPERATIONS LEADER Chuck Sorden	PHONE NUMBER (321) 591-7580	ADDRESS 481 Newburyport Ave.
		CARRIER/WAYBILL NUMBER		CITY, STATE Altamonte Springs, FL

STANDARD TAT [X]
RUSH TAT [ ] 24 hr. [ ] 48 hr. [ ] 72 hr. [ ] 7 day [ ] 14 day

DATE (YEAR 2023)	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)									COMMENTS
									G	G								
									HCl/4°C	4°C								
									TYPE OF ANALYSIS: 8260D-(MOD) NASA LC34 Custom List	8260D-(MOD) NASA LC34 Custom List								
10/04	0955	LC34-DPT0959-013.0-20231004	37	11	15	GW	G	4	X	X								
	1010	LC34-DPT0959-018.0-20231004		16	20													
	1030	LC34-DPT0959-025.0-20231004		23	27													
	1050	LC34-DPT0959-034.0-20231004		32	36													
	1110	LC34-DPT0959-038.0-20231004	37	36	40													
	1150	LC34-DPT0960-008.0-20231004	43	6	10													
	1205	LC34-DPT0960-013.0-20231004		11	15													
	1220	LC34-DPT0960-018.0-20231004		16	20													
	1240	LC34-DPT0960-025.0-20231004		23	27													
	1300	LC34-DPT0960-034.0-20231004		32	36													
10/04	1320	LC34-DPT0960-038.0-20231004	43	36	40	GW	G	4	X	X								

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	DCS 10/04/23	1415	1. RECEIVED BY		
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME
				10-5-23	0800

COMMENTS: 1.2 / 10.7

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

FORM NO. TtNUS-001 10/23/2023

Eurofins Orlando
481 Newburyport Avenue
Altamonte Springs, FL 32701
Phone: 407-339-5984 Fax: 407-260-6110

Chain of Custody Record

eurofins

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Dylnicki, Kaitlin	Carrier Tracking No(s):	COC No: 670-16326.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: kaitlin.dylnicki@et.eurofinsus.com	State of Origin: Florida	Page: Page 1 of 3
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP Florida		Job #: 670-28030-1
Address: 5102 LaRoche Avenue,	Due Date Requested: 10/17/2023			
City: Savannah	TAT Requested (days):			
State, Zip: GA, 31404				
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	PO #:			
Email:	WO #:			
Project Name: NASA KSC LC34	Project #: 67001156			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D/5030B (MOD) NASA LC34 Custom	8260D/5030B_UP (MOD) NASA LC34 Custom	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
LC34-DPT0957-008.0-20231003 (670-28030-1)	10/3/23	14:30 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0957-013.0-20231003 (670-28030-2)	10/3/23	14:45 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0957-018.0-20231003 (670-28030-3)	10/3/23	15:00 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0957-025.0-20231003 (670-28030-4)	10/3/23	15:20 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0957-034.0-20231003 (670-28030-5)	10/3/23	15:40 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0957-038.0-20231003 (670-28030-6)	10/3/23	16:00 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0958-008.0-20231003 (670-28030-7)	10/3/23	16:35 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0958-013.0-20231003 (670-28030-8)	10/3/23	16:50 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0958-018.0-20231004 (670-28030-9)	10/4/23	07:55 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)***
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	10/5 1200			10/7/23 0544	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks: 2-7-3.0

Eurofins Orlando
481 Newburyport Avenue
Altamonte Springs, FL 32701
Phone: 407-339-5984 Fax: 407-260-6110

Chain of Custody Record

eurofins

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Dylnicki, Kaitlin	Carrier Tracking No(s):	COC No: 670-16326.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: kaitlin.dylnicki@et.eurofinsus.com	State of Origin: Florida	Page: Page 2 of 3
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP Florida		Job #: 670-28030-1
Address: 5102 LaRoche Avenue,	Due Date Requested: 10/17/2023			
City: Savannah	TAT Requested (days):			
State, Zip: GA, 31404				
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	PO #:			
Email:	WO #:			
Project Name: NASA KSC LC34	Project #: 67001156			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify), Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D/5030B (MOD) NASA LC34 Custom	8260D/5030B_UP (MOD) NASA LC34 Custom	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
LC34-DPT0958-025.0-20231004 (670-28030-10)	10/4/23	08:15 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0958-034.0-20231004 (670-28030-11)	10/4/23	08:35 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0958-038.0-20231004 (670-28030-12)	10/4/23	08:55 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0959-008.0-20231004 (670-28030-13)	10/4/23	09:40 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0959-013.0-20231004 (670-28030-14)	10/4/23	09:55 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0959-018.0-20231004 (670-28030-15)	10/4/23	10:10 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0959-025.0-20231004 (670-28030-16)	10/4/23	10:30 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0959-034.0-20231004 (670-28030-17)	10/4/23	10:50 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0959-038.0-20231004 (670-28030-18)	10/4/23	11:10 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I II III IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		10/5 1200			10/7/23 0545	
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks: 2.7-3.0

Eurofins Orlando
481 Newburyport Avenue
Altamonte Springs, FL 32701
Phone: 407-339-5984 Fax: 407-260-6110

Chain of Custody Record

eurofins

Client Information (Sub Contract Lab)	Sampler	Lab PM: Dylnicki Kaitlin	Carrier Tracking No(s):	COC No: 670-16326.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: kaitlin.dylnicki@et.eurofinsus.com	State of Origin: Florida	Page: Page 3 of 3
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP Florida		Job #: 670-28030-1
Address: 5102 LaRoche Avenue,	Due Date Requested: 10/17/2023			
City: Savannah	TAT Requested (days):			
State, Zip: GA, 31404				
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	PO #:			
Email:	WO #:			
Project Name: NASA KSC LC34	Project #: 67001156			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Wwwater S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D/5030B (MOD) NASA LC34 Custom	8260D/5030B_UP (MOD) NASA LC34 Custom	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
LC34-DPT0960-008.0-20231004 (670-28030-19)	10/4/23	11:50 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0960-013.0-20231004 (670-28030-20)	10/4/23	12:05 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0960-018.0-20231004 (670-28030-21)	10/4/23	12:20 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0960-025.0-20231004 (670-28030-22)	10/4/23	12:40 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0960-034.0-20231004 (670-28030-23)	10/4/23	13:00 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0960-038.0-20231004 (670-28030-24)	10/4/23	13:20 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)***
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I II III, IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	10/5 1200			10/7/23 0945	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks: 2-7-3.5

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 670-28030-1

Login Number: 28030

List Source: Eurofins Orlando

List Number: 1

Creator: Lavardera, Angelina

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 670-28030-1

Login Number: 28030
List Number: 2
Creator: Watters, David

List Source: Eurofins Savannah
List Creation: 10/07/23 12:48 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	False	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Mark Jonnet
Tetra Tech, Inc.
Foster Plaza 7
661 Anderson Drive
Suite 200
Pittsburgh, Pennsylvania 15220-2745

Generated 10/27/2023 4:36:28 PM

JOB DESCRIPTION

NASA KSC LC34 DPT
SDG NUMBER 670-28133-1

JOB NUMBER

670-28133-1

Eurofins Orlando
481 Newburyport Avenue
Altamonte Springs FL 32701

See page two for job notes and contact information.

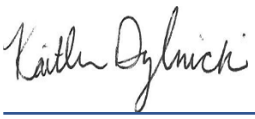
my EOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization



Generated
10/27/2023 4:36:28 PM

Authorized for release by
Kaitlin Dylnicki, Project Manager
kaitlin.dylnicki@et.eurofinsus.com
(407)339-5984

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Definitions/Glossary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28133-1
SDG: 670-28133-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
U	Indicates that the compound was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 670-28133-1

Laboratory: Eurofins Orlando

Narrative

Job Narrative
Client: Tetra Tech
Client PM: Mark Jonnet
Project: NASA KSC LC34
Project Number: 112G08985
670-28133-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 10/6/2023 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.6°C

GC/MS VOA
Method 8260D: The continuing calibration verification (CCV) associated with batch 680-801597 recovered outside acceptance criteria, low biased, for Bromomethane. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

Method 8260D: The laboratory control sample duplicate (LCSD) for analytical batch 680-801597 recovered outside control limits for the following analytes: 2-Butanone (MEK). This analyte was biased high in the LCSD and was not detected in the associated samples; therefore, the data have been reported.

Method 8260D: The following samples were diluted to bring the concentration of target analytes within the calibration range: LC34-DPT0961-025.0-20231004 (670-28133-4), LC34-DPT0961-034.0-20231004 (670-28133-5), LC34-DPT0962-025.0-20231004 (670-28133-10), LC34-DPT0962-034.0-20231005 (670-28133-11) and LC34-DPT0962-038.0-20231005 (670-28133-12). Elevated reporting limits (RLs) are provided.

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-801597.

Method 8260D: The continuing calibration verification (CCV) associated with batch 680-801819 recovered above the upper control limit for Trichlorofluoromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 680-801819 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8260D: The laboratory control sample duplicate (LCSD) for analytical batch 680-801767 recovered outside control limits for the following analytes: 2-Butanone (MEK). These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-801767.

Job ID: 670-28133-1 (Continued)

Laboratory: Eurofins Orlando (Continued)

Method 8260D: The following samples were diluted to bring the concentration of target analytes within the calibration range: LC34-DPT0963-025.0-20231005 (670-28133-16), LC34-DPT0963-034.0-20231005 (670-28133-17), LC34-DPT0963-038.0-20231005 (670-28133-18) and LC34-DPT0964-025.0-20231005 (670-28133-22). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28133-1
SDG: 670-28133-1

Client Sample ID: LC34-DPT0961-008.0-20231004 — Lab Sample ID: 670-28133-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.3		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	7.8		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0961-013.0-20231004 — Lab Sample ID: 670-28133-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	10		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	26		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0961-018.0-20231004 — Lab Sample ID: 670-28133-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	0.63	I	1.0	0.33	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	180		1.0	0.25	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	6.1		1.0	0.34	ug/L	1		8260D	Total/NA
Vinyl chloride - DL	480		5.0	2.0	ug/L	5		8260D	Total/NA

Client Sample ID: LC34-DPT0961-025.0-20231004 — Lab Sample ID: 670-28133-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	960		10	2.5	ug/L	10		8260D	Total/NA
trans-1,2-Dichloroethene	8.1	I	10	3.4	ug/L	10		8260D	Total/NA
Vinyl chloride	350		10	4.0	ug/L	10		8260D	Total/NA

Client Sample ID: LC34-DPT0961-034.0-20231004 — Lab Sample ID: 670-28133-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	2.7	I	10	2.2	ug/L	5		8260D	Total/NA
trans-1,2-Dichloroethene	10		5.0	1.7	ug/L	5		8260D	Total/NA
Vinyl chloride	480		5.0	2.0	ug/L	5		8260D	Total/NA
cis-1,2-Dichloroethene - DL	3600		25	6.3	ug/L	25		8260D	Total/NA

Client Sample ID: LC34-DPT0961-038.0-20231004 — Lab Sample ID: 670-28133-6

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	2.0		2.0	0.43	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	0.55	I	1.0	0.34	ug/L	1		8260D	Total/NA
Vinyl chloride	15		1.0	0.40	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene - DL	800		5.0	1.3	ug/L	5		8260D	Total/NA

Client Sample ID: LC34-DPT0962-008.0-20231004 — Lab Sample ID: 670-28133-7

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.7		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	1.9		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0962-013.0-20231004 — Lab Sample ID: 670-28133-8

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	12		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	10		1.0	0.40	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28133-1
SDG: 670-28133-1

Client Sample ID: LC34-DPT0962-018.0-20231004 — Lab Sample ID: 670-28133-9

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	94		1.0	0.25	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	1.7		1.0	0.34	ug/L	1		8260D	Total/NA
Vinyl chloride	48		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0962-025.0-20231004 — Lab Sample ID: 670-28133-10

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	710		5.0	1.3	ug/L	5		8260D	Total/NA
trans-1,2-Dichloroethene	8.7		5.0	1.7	ug/L	5		8260D	Total/NA
Vinyl chloride	610		5.0	2.0	ug/L	5		8260D	Total/NA

Client Sample ID: LC34-DPT0962-034.0-20231005 — Lab Sample ID: 670-28133-11

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	360		25	6.3	ug/L	25		8260D	Total/NA
Vinyl chloride	2400		25	10	ug/L	25		8260D	Total/NA

Client Sample ID: LC34-DPT0962-038.0-20231005 — Lab Sample ID: 670-28133-12

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	320		25	6.3	ug/L	25		8260D	Total/NA
Vinyl chloride	890		25	10	ug/L	25		8260D	Total/NA

Client Sample ID: LC34-DPT0963-008.0-20231005 — Lab Sample ID: 670-28133-13

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.4		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	2.0		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0963-013.0-20231005 — Lab Sample ID: 670-28133-14

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.49	I	2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	12		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	94		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0963-018.0-20231005 — Lab Sample ID: 670-28133-15

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	63		1.0	0.25	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	3.1		1.0	0.34	ug/L	1		8260D	Total/NA
Vinyl chloride - DL	360		5.0	2.0	ug/L	5		8260D	Total/NA

Client Sample ID: LC34-DPT0963-025.0-20231005 — Lab Sample ID: 670-28133-16

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	1.9	I	4.0	0.86	ug/L	2		8260D	Total/NA
cis-1,2-Dichloroethene	30		2.0	0.50	ug/L	2		8260D	Total/NA
trans-1,2-Dichloroethene	4.2		2.0	0.68	ug/L	2		8260D	Total/NA
Vinyl chloride	350		2.0	0.80	ug/L	2		8260D	Total/NA

Client Sample ID: LC34-DPT0963-034.0-20231005 — Lab Sample ID: 670-28133-17

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	3100		25	6.3	ug/L	25		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Orlando

Client Sample ID: LC34-DPT0963-034.0-20231005 (Continued) — Lab Sample ID: 670-28133-17

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
trans-1,2-Dichloroethene	15	I	25	8.5	ug/L	25		8260D	Total/NA
Vinyl chloride	3100		25	10	ug/L	25		8260D	Total/NA

Client Sample ID: LC34-DPT0963-038.0-20231005 — Lab Sample ID: 670-28133-18

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
trans-1,2-Dichloroethene	1.7	I	5.0	1.7	ug/L	5		8260D	Total/NA
Vinyl chloride	53		5.0	2.0	ug/L	5		8260D	Total/NA
cis-1,2-Dichloroethene - DL	2500		25	6.3	ug/L	25		8260D	Total/NA

Client Sample ID: LC34-DPT0964-008.0-20231005 — Lab Sample ID: 670-28133-19

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	4.8		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	9.6		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0964-013.0-20231005 — Lab Sample ID: 670-28133-20

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	140		1.0	0.25	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	2.4		1.0	0.34	ug/L	1		8260D	Total/NA
Vinyl chloride	72		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0964-018.0-20231005 — Lab Sample ID: 670-28133-21

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	1.1		1.0	0.33	ug/L	1		8260D	Total/NA
Carbon disulfide	0.47	I	2.0	0.43	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	9.5		1.0	0.34	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene - DL	510		5.0	1.3	ug/L	5		8260D	Total/NA
Vinyl chloride - DL	210		5.0	2.0	ug/L	5		8260D	Total/NA

Client Sample ID: LC34-DPT0964-025.0-20231005 — Lab Sample ID: 670-28133-22

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1900		10	2.5	ug/L	10		8260D	Total/NA
trans-1,2-Dichloroethene	53		10	3.4	ug/L	10		8260D	Total/NA
Vinyl chloride	480		10	4.0	ug/L	10		8260D	Total/NA

Client Sample ID: LC34-DPT0964-034.0-20231005 — Lab Sample ID: 670-28133-23

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.86	I	2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	79		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	0.97	I	1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0964-038.0-20231005 — Lab Sample ID: 670-28133-24

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	1.5	I	2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.63	I	1.0	0.25	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28133-1
SDG: 670-28133-1

Client Sample ID: LC34-DPT0961-008.0-20231004
Date Collected: 10/04/23 14:00
Date Received: 10/06/23 08:00

Lab Sample ID: 670-28133-1
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/09/23 10:53	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/09/23 10:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/09/23 10:53	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/09/23 10:53	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/09/23 10:53	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/09/23 10:53	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/09/23 10:53	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/09/23 10:53	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/09/23 10:53	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 10:53	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/09/23 10:53	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/09/23 10:53	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 10:53	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 10:53	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			10/09/23 10:53	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/09/23 10:53	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/09/23 10:53	1
Acetone	3.7	U	10	3.7	ug/L			10/09/23 10:53	1
Benzene	0.27	U	1.0	0.27	ug/L			10/09/23 10:53	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/09/23 10:53	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/09/23 10:53	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/09/23 10:53	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/09/23 10:53	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/09/23 10:53	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/09/23 10:53	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/09/23 10:53	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/09/23 10:53	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/09/23 10:53	1
cis-1,2-Dichloroethene	**2.3**		1.0	0.25	ug/L			10/09/23 10:53	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/09/23 10:53	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/09/23 10:53	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/09/23 10:53	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/09/23 10:53	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/09/23 10:53	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/09/23 10:53	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/09/23 10:53	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/09/23 10:53	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/09/23 10:53	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/09/23 10:53	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/09/23 10:53	1
Styrene	0.27	U	1.0	0.27	ug/L			10/09/23 10:53	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/09/23 10:53	1
Toluene	0.25	U	1.0	0.25	ug/L			10/09/23 10:53	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/09/23 10:53	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/09/23 10:53	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/09/23 10:53	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/09/23 10:53	1
Vinyl chloride	**7.8**		1.0	0.40	ug/L			10/09/23 10:53	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/09/23 10:53	1

Client Sample ID: LC34-DPT0961-008.0-20231004

Lab Sample ID: 670-28133-1

Date Collected: 10/04/23 14:00
Matrix: Water
Date Received: 10/06/23 08:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		60 - 124		10/09/23 10:53	1
4-Bromofluorobenzene (Surr)	104		70 - 130		10/09/23 10:53	1
Dibromofluoromethane (Surr)	124		70 - 130		10/09/23 10:53	1
Toluene-d8 (Surr)	120		70 - 130		10/09/23 10:53	1

Client Sample ID: LC34-DPT0961-013.0-20231004

Lab Sample ID: 670-28133-2

Date Collected: 10/04/23 14:15
Matrix: Water
Date Received: 10/06/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/09/23 11:13	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/09/23 11:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/09/23 11:13	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/09/23 11:13	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/09/23 11:13	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/09/23 11:13	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/09/23 11:13	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/09/23 11:13	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/09/23 11:13	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 11:13	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/09/23 11:13	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/09/23 11:13	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 11:13	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 11:13	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			10/09/23 11:13	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/09/23 11:13	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/09/23 11:13	1
Acetone	3.7	U	10	3.7	ug/L			10/09/23 11:13	1
Benzene	0.27	U	1.0	0.27	ug/L			10/09/23 11:13	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/09/23 11:13	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/09/23 11:13	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/09/23 11:13	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/09/23 11:13	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/09/23 11:13	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/09/23 11:13	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/09/23 11:13	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/09/23 11:13	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/09/23 11:13	1
cis-1,2-Dichloroethene	**10**		1.0	0.25	ug/L			10/09/23 11:13	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/09/23 11:13	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/09/23 11:13	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/09/23 11:13	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/09/23 11:13	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/09/23 11:13	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/09/23 11:13	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/09/23 11:13	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/09/23 11:13	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/09/23 11:13	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/09/23 11:13	1

Client Sample ID: LC34-DPT0961-013.0-20231004
Lab Sample ID: 670-28133-2
Date Collected: 10/04/23 14:15
Matrix: Water
Date Received: 10/06/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	0.26	U	1.0	0.26	ug/L			10/09/23 11:13	1
Styrene	0.27	U	1.0	0.27	ug/L			10/09/23 11:13	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/09/23 11:13	1
Toluene	0.25	U	1.0	0.25	ug/L			10/09/23 11:13	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/09/23 11:13	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/09/23 11:13	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/09/23 11:13	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/09/23 11:13	1
Vinyl chloride	**26**		1.0	0.40	ug/L			10/09/23 11:13	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/09/23 11:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*60 - 124*		*10/09/23 11:13*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*10/09/23 11:13*	*1*
Dibromofluoromethane (Surr)	*121*		*70 - 130*		*10/09/23 11:13*	*1*
Toluene-d8 (Surr)	*116*		*70 - 130*		*10/09/23 11:13*	*1*

Client Sample ID: LC34-DPT0961-018.0-20231004
Lab Sample ID: 670-28133-3
Date Collected: 10/04/23 14:30
Matrix: Water
Date Received: 10/06/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/09/23 11:33	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/09/23 11:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/09/23 11:33	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/09/23 11:33	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/09/23 11:33	1
1,1-Dichloroethene	**0.63**	**I**	1.0	0.33	ug/L			10/09/23 11:33	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/09/23 11:33	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/09/23 11:33	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/09/23 11:33	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 11:33	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/09/23 11:33	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/09/23 11:33	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 11:33	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 11:33	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			10/09/23 11:33	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/09/23 11:33	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/09/23 11:33	1
Acetone	3.7	U	10	3.7	ug/L			10/09/23 11:33	1
Benzene	0.27	U	1.0	0.27	ug/L			10/09/23 11:33	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/09/23 11:33	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/09/23 11:33	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/09/23 11:33	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/09/23 11:33	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/09/23 11:33	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/09/23 11:33	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/09/23 11:33	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/09/23 11:33	1

Client Sample ID: LC34-DPT0961-018.0-20231004

Lab Sample ID: 670-28133-3

Date Collected: 10/04/23 14:30
Matrix: Water
Date Received: 10/06/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	0.54	U	1.0	0.54	ug/L			10/09/23 11:33	1
cis-1,2-Dichloroethene	**180**		1.0	0.25	ug/L			10/09/23 11:33	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/09/23 11:33	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/09/23 11:33	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/09/23 11:33	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/09/23 11:33	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/09/23 11:33	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/09/23 11:33	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/09/23 11:33	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/09/23 11:33	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/09/23 11:33	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/09/23 11:33	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/09/23 11:33	1
Styrene	0.27	U	1.0	0.27	ug/L			10/09/23 11:33	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/09/23 11:33	1
Toluene	0.25	U	1.0	0.25	ug/L			10/09/23 11:33	1
trans-1,2-Dichloroethene	**6.1**		1.0	0.34	ug/L			10/09/23 11:33	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/09/23 11:33	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/09/23 11:33	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/09/23 11:33	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/09/23 11:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 124*		*10/09/23 11:33*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*10/09/23 11:33*	*1*
Dibromofluoromethane (Surr)	*111*		*70 - 130*		*10/09/23 11:33*	*1*
Toluene-d8 (Surr)	*114*		*70 - 130*		*10/09/23 11:33*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	**480**		5.0	2.0	ug/L			10/09/23 23:09	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*60 - 124*		*10/09/23 23:09*	*5*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/09/23 23:09*	*5*
Dibromofluoromethane (Surr)	*115*		*70 - 130*		*10/09/23 23:09*	*5*
Toluene-d8 (Surr)	*116*		*70 - 130*		*10/09/23 23:09*	*5*

Client Sample ID: LC34-DPT0961-025.0-20231004

Lab Sample ID: 670-28133-4

Date Collected: 10/04/23 14:50
Matrix: Water
Date Received: 10/06/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2.1	U	10	2.1	ug/L			10/09/23 15:56	10
1,1,2,2-Tetrachloroethane	4.0	U	10	4.0	ug/L			10/09/23 15:56	10
1,1,2-Trichloro-1,2,2-trifluoroethane	2.3	U	10	2.3	ug/L			10/09/23 15:56	10
1,1,2-Trichloroethane	3.2	U	10	3.2	ug/L			10/09/23 15:56	10
1,1-Dichloroethane	3.3	U	10	3.3	ug/L			10/09/23 15:56	10
1,1-Dichloroethene	3.3	U	10	3.3	ug/L			10/09/23 15:56	10
1,2,4-Trichlorobenzene	5.3	U	50	5.3	ug/L			10/09/23 15:56	10

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28133-1
SDG: 670-28133-1

Client Sample ID: LC34-DPT0961-025.0-20231004
Date Collected: 10/04/23 14:50
Date Received: 10/06/23 08:00

Lab Sample ID: 670-28133-4
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	18	U	50	18	ug/L			10/09/23 15:56	10
1,2-Dibromoethane (EDB)	3.3	U	10	3.3	ug/L			10/09/23 15:56	10
1,2-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/09/23 15:56	10
1,2-Dichloroethane	2.5	U	10	2.5	ug/L			10/09/23 15:56	10
1,2-Dichloropropane	2.2	U	10	2.2	ug/L			10/09/23 15:56	10
1,3-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/09/23 15:56	10
1,4-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/09/23 15:56	10
2-Butanone (MEK)	64	U J3	100	64	ug/L			10/09/23 15:56	10
2-Hexanone	32	U	100	32	ug/L			10/09/23 15:56	10
4-Methyl-2-pentanone	27	U	100	27	ug/L			10/09/23 15:56	10
Acetone	37	U	100	37	ug/L			10/09/23 15:56	10
Benzene	2.7	U	10	2.7	ug/L			10/09/23 15:56	10
Bromodichloromethane	2.5	U	10	2.5	ug/L			10/09/23 15:56	10
Bromoform	5.9	U	10	5.9	ug/L			10/09/23 15:56	10
Bromomethane	37	U	50	37	ug/L			10/09/23 15:56	10
Carbon disulfide	4.3	U	20	4.3	ug/L			10/09/23 15:56	10
Carbon tetrachloride	3.0	U	10	3.0	ug/L			10/09/23 15:56	10
Chlorobenzene	1.5	U	10	1.5	ug/L			10/09/23 15:56	10
Chloroethane	46	U	50	46	ug/L			10/09/23 15:56	10
Chloroform	2.7	U	10	2.7	ug/L			10/09/23 15:56	10
Chloromethane	5.4	U	10	5.4	ug/L			10/09/23 15:56	10
cis-1,2-Dichloroethene	**960**		10	2.5	ug/L			10/09/23 15:56	10
cis-1,3-Dichloropropene	2.6	U	10	2.6	ug/L			10/09/23 15:56	10
Cyclohexane	2.8	U	10	2.8	ug/L			10/09/23 15:56	10
Dibromochloromethane	3.9	U	10	3.9	ug/L			10/09/23 15:56	10
Dichlorodifluoromethane	3.6	U	10	3.6	ug/L			10/09/23 15:56	10
Ethylbenzene	2.0	U	10	2.0	ug/L			10/09/23 15:56	10
Isopropylbenzene	2.6	U	10	2.6	ug/L			10/09/23 15:56	10
m,p-Xylenes	4.9	U	10	4.9	ug/L			10/09/23 15:56	10
Methyl acetate	32	U	50	32	ug/L			10/09/23 15:56	10
Methyl tert-butyl ether	8.1	U	50	8.1	ug/L			10/09/23 15:56	10
Methylene Chloride	32	U	50	32	ug/L			10/09/23 15:56	10
o-Xylene	2.6	U	10	2.6	ug/L			10/09/23 15:56	10
Styrene	2.7	U	10	2.7	ug/L			10/09/23 15:56	10
Tetrachloroethene	3.5	U	10	3.5	ug/L			10/09/23 15:56	10
Toluene	2.5	U	10	2.5	ug/L			10/09/23 15:56	10
trans-1,2-Dichloroethene	**8.1**	**I**	10	3.4	ug/L			10/09/23 15:56	10
trans-1,3-Dichloropropene	2.3	U	10	2.3	ug/L			10/09/23 15:56	10
Trichloroethene	2.0	U	10	2.0	ug/L			10/09/23 15:56	10
Trichlorofluoromethane	3.3	U	10	3.3	ug/L			10/09/23 15:56	10
Vinyl chloride	**350**		10	4.0	ug/L			10/09/23 15:56	10
Xylenes, Total	2.3	U	10	2.3	ug/L			10/09/23 15:56	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*60 - 124*		*10/09/23 15:56*	*10*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*10/09/23 15:56*	*10*
Dibromofluoromethane (Surr)	*119*		*70 - 130*		*10/09/23 15:56*	*10*
Toluene-d8 (Surr)	*115*		*70 - 130*		*10/09/23 15:56*	*10*

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28133-1
SDG: 670-28133-1

Client Sample ID: LC34-DPT0961-034.0-20231004
Date Collected: 10/04/23 15:10
Date Received: 10/06/23 08:00

Lab Sample ID: 670-28133-5
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	5.0	1.1	ug/L			10/09/23 16:18	5
1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	ug/L			10/09/23 16:18	5
1,1,2-Trichloro-1,2,2-trifluoroethane	1.2	U	5.0	1.2	ug/L			10/09/23 16:18	5
1,1,2-Trichloroethane	1.6	U	5.0	1.6	ug/L			10/09/23 16:18	5
1,1-Dichloroethane	1.7	U	5.0	1.7	ug/L			10/09/23 16:18	5
1,1-Dichloroethene	1.7	U	5.0	1.7	ug/L			10/09/23 16:18	5
1,2,4-Trichlorobenzene	2.7	U	25	2.7	ug/L			10/09/23 16:18	5
1,2-Dibromo-3-Chloropropane	9.0	U	25	9.0	ug/L			10/09/23 16:18	5
1,2-Dibromoethane (EDB)	1.7	U	5.0	1.7	ug/L			10/09/23 16:18	5
1,2-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/09/23 16:18	5
1,2-Dichloroethane	1.3	U	5.0	1.3	ug/L			10/09/23 16:18	5
1,2-Dichloropropane	1.1	U	5.0	1.1	ug/L			10/09/23 16:18	5
1,3-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/09/23 16:18	5
1,4-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/09/23 16:18	5
2-Butanone (MEK)	32	U J3	50	32	ug/L			10/09/23 16:18	5
2-Hexanone	16	U	50	16	ug/L			10/09/23 16:18	5
4-Methyl-2-pentanone	14	U	50	14	ug/L			10/09/23 16:18	5
Acetone	19	U	50	19	ug/L			10/09/23 16:18	5
Benzene	1.4	U	5.0	1.4	ug/L			10/09/23 16:18	5
Bromodichloromethane	1.3	U	5.0	1.3	ug/L			10/09/23 16:18	5
Bromoform	3.0	U	5.0	3.0	ug/L			10/09/23 16:18	5
Bromomethane	19	U	25	19	ug/L			10/09/23 16:18	5
Carbon disulfide	**2.7**	**I**	10	2.2	ug/L			10/09/23 16:18	5
Carbon tetrachloride	1.5	U	5.0	1.5	ug/L			10/09/23 16:18	5
Chlorobenzene	0.75	U	5.0	0.75	ug/L			10/09/23 16:18	5
Chloroethane	23	U	25	23	ug/L			10/09/23 16:18	5
Chloroform	1.4	U	5.0	1.4	ug/L			10/09/23 16:18	5
Chloromethane	2.7	U	5.0	2.7	ug/L			10/09/23 16:18	5
cis-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			10/09/23 16:18	5
Cyclohexane	1.4	U	5.0	1.4	ug/L			10/09/23 16:18	5
Dibromochloromethane	2.0	U	5.0	2.0	ug/L			10/09/23 16:18	5
Dichlorodifluoromethane	1.8	U	5.0	1.8	ug/L			10/09/23 16:18	5
Ethylbenzene	1.0	U	5.0	1.0	ug/L			10/09/23 16:18	5
Isopropylbenzene	1.3	U	5.0	1.3	ug/L			10/09/23 16:18	5
m,p-Xylenes	2.5	U	5.0	2.5	ug/L			10/09/23 16:18	5
Methyl acetate	16	U	25	16	ug/L			10/09/23 16:18	5
Methyl tert-butyl ether	4.1	U	25	4.1	ug/L			10/09/23 16:18	5
Methylene Chloride	16	U	25	16	ug/L			10/09/23 16:18	5
o-Xylene	1.3	U	5.0	1.3	ug/L			10/09/23 16:18	5
Styrene	1.4	U	5.0	1.4	ug/L			10/09/23 16:18	5
Tetrachloroethene	1.8	U	5.0	1.8	ug/L			10/09/23 16:18	5
Toluene	1.3	U	5.0	1.3	ug/L			10/09/23 16:18	5
trans-1,2-Dichloroethene	**10**		5.0	1.7	ug/L			10/09/23 16:18	5
trans-1,3-Dichloropropene	1.2	U	5.0	1.2	ug/L			10/09/23 16:18	5
Trichloroethene	1.0	U	5.0	1.0	ug/L			10/09/23 16:18	5
Trichlorofluoromethane	1.7	U	5.0	1.7	ug/L			10/09/23 16:18	5
Vinyl chloride	**480**		5.0	2.0	ug/L			10/09/23 16:18	5
Xylenes, Total	1.2	U	5.0	1.2	ug/L			10/09/23 16:18	5

Client Sample ID: LC34-DPT0961-034.0-20231004

Lab Sample ID: 670-28133-5

Date Collected: 10/04/23 15:10
Matrix: Water
Date Received: 10/06/23 08:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*60 - 124*		*10/09/23 16:18*	*5*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*10/09/23 16:18*	*5*
Dibromofluoromethane (Surr)	*108*		*70 - 130*		*10/09/23 16:18*	*5*
Toluene-d8 (Surr)	*115*		*70 - 130*		*10/09/23 16:18*	*5*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**3600**		25	6.3	ug/L			10/09/23 23:31	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*60 - 124*		*10/09/23 23:31*	*25*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*10/09/23 23:31*	*25*
Dibromofluoromethane (Surr)	*108*		*70 - 130*		*10/09/23 23:31*	*25*
Toluene-d8 (Surr)	*119*		*70 - 130*		*10/09/23 23:31*	*25*

Client Sample ID: LC34-DPT0961-038.0-20231004

Lab Sample ID: 670-28133-6

Date Collected: 10/04/23 15:30
Matrix: Water
Date Received: 10/06/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/09/23 11:53	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/09/23 11:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/09/23 11:53	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/09/23 11:53	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/09/23 11:53	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/09/23 11:53	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/09/23 11:53	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/09/23 11:53	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/09/23 11:53	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 11:53	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/09/23 11:53	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/09/23 11:53	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 11:53	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 11:53	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			10/09/23 11:53	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/09/23 11:53	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/09/23 11:53	1
Acetone	3.7	U	10	3.7	ug/L			10/09/23 11:53	1
Benzene	0.27	U	1.0	0.27	ug/L			10/09/23 11:53	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/09/23 11:53	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/09/23 11:53	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/09/23 11:53	1
Carbon disulfide	**2.0**		2.0	0.43	ug/L			10/09/23 11:53	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/09/23 11:53	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/09/23 11:53	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/09/23 11:53	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/09/23 11:53	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/09/23 11:53	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/09/23 11:53	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/09/23 11:53	1

Client Sample ID: LC34-DPT0961-038.0-20231004

Lab Sample ID: 670-28133-6

Date Collected: 10/04/23 15:30
Matrix: Water
Date Received: 10/06/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/09/23 11:53	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/09/23 11:53	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/09/23 11:53	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/09/23 11:53	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/09/23 11:53	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/09/23 11:53	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/09/23 11:53	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/09/23 11:53	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/09/23 11:53	1
Styrene	0.27	U	1.0	0.27	ug/L			10/09/23 11:53	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/09/23 11:53	1
Toluene	0.25	U	1.0	0.25	ug/L			10/09/23 11:53	1
trans-1,2-Dichloroethene	**0.55**	**I**	1.0	0.34	ug/L			10/09/23 11:53	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/09/23 11:53	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/09/23 11:53	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/09/23 11:53	1
Vinyl chloride	**15**		1.0	0.40	ug/L			10/09/23 11:53	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/09/23 11:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 124*		*10/09/23 11:53*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*10/09/23 11:53*	*1*
Dibromofluoromethane (Surr)	*107*		*70 - 130*		*10/09/23 11:53*	*1*
Toluene-d8 (Surr)	*112*		*70 - 130*		*10/09/23 11:53*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**800**		5.0	1.3	ug/L			10/09/23 23:54	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 124*		*10/09/23 23:54*	*5*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/09/23 23:54*	*5*
Dibromofluoromethane (Surr)	*108*		*70 - 130*		*10/09/23 23:54*	*5*
Toluene-d8 (Surr)	*115*		*70 - 130*		*10/09/23 23:54*	*5*

Client Sample ID: LC34-DPT0962-008.0-20231004

Lab Sample ID: 670-28133-7

Date Collected: 10/04/23 16:10
Matrix: Water
Date Received: 10/06/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/09/23 12:13	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/09/23 12:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/09/23 12:13	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/09/23 12:13	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/09/23 12:13	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/09/23 12:13	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/09/23 12:13	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/09/23 12:13	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/09/23 12:13	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 12:13	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28133-1
SDG: 670-28133-1

Client Sample ID: LC34-DPT0962-008.0-20231004
Date Collected: 10/04/23 16:10
Date Received: 10/06/23 08:00

Lab Sample ID: 670-28133-7
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/09/23 12:13	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/09/23 12:13	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 12:13	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 12:13	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			10/09/23 12:13	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/09/23 12:13	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/09/23 12:13	1
Acetone	3.7	U	10	3.7	ug/L			10/09/23 12:13	1
Benzene	0.27	U	1.0	0.27	ug/L			10/09/23 12:13	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/09/23 12:13	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/09/23 12:13	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/09/23 12:13	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/09/23 12:13	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/09/23 12:13	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/09/23 12:13	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/09/23 12:13	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/09/23 12:13	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/09/23 12:13	1
cis-1,2-Dichloroethene	**2.7**		1.0	0.25	ug/L			10/09/23 12:13	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/09/23 12:13	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/09/23 12:13	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/09/23 12:13	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/09/23 12:13	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/09/23 12:13	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/09/23 12:13	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/09/23 12:13	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/09/23 12:13	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/09/23 12:13	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/09/23 12:13	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/09/23 12:13	1
Styrene	0.27	U	1.0	0.27	ug/L			10/09/23 12:13	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/09/23 12:13	1
Toluene	0.25	U	1.0	0.25	ug/L			10/09/23 12:13	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/09/23 12:13	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/09/23 12:13	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/09/23 12:13	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/09/23 12:13	1
Vinyl chloride	**1.9**		1.0	0.40	ug/L			10/09/23 12:13	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/09/23 12:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*60 - 124*		*10/09/23 12:13*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*10/09/23 12:13*	*1*
Dibromofluoromethane (Surr)	*125*		*70 - 130*		*10/09/23 12:13*	*1*
Toluene-d8 (Surr)	*115*		*70 - 130*		*10/09/23 12:13*	*1*

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28133-1
SDG: 670-28133-1

Client Sample ID: LC34-DPT0962-013.0-20231004
Date Collected: 10/04/23 16:25
Date Received: 10/06/23 08:00

Lab Sample ID: 670-28133-8
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/09/23 12:33	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/09/23 12:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/09/23 12:33	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/09/23 12:33	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/09/23 12:33	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/09/23 12:33	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/09/23 12:33	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/09/23 12:33	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/09/23 12:33	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 12:33	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/09/23 12:33	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/09/23 12:33	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 12:33	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 12:33	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			10/09/23 12:33	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/09/23 12:33	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/09/23 12:33	1
Acetone	3.7	U	10	3.7	ug/L			10/09/23 12:33	1
Benzene	0.27	U	1.0	0.27	ug/L			10/09/23 12:33	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/09/23 12:33	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/09/23 12:33	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/09/23 12:33	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/09/23 12:33	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/09/23 12:33	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/09/23 12:33	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/09/23 12:33	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/09/23 12:33	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/09/23 12:33	1
cis-1,2-Dichloroethene	**12**		1.0	0.25	ug/L			10/09/23 12:33	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/09/23 12:33	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/09/23 12:33	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/09/23 12:33	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/09/23 12:33	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/09/23 12:33	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/09/23 12:33	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/09/23 12:33	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/09/23 12:33	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/09/23 12:33	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/09/23 12:33	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/09/23 12:33	1
Styrene	0.27	U	1.0	0.27	ug/L			10/09/23 12:33	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/09/23 12:33	1
Toluene	0.25	U	1.0	0.25	ug/L			10/09/23 12:33	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/09/23 12:33	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/09/23 12:33	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/09/23 12:33	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/09/23 12:33	1
Vinyl chloride	**10**		1.0	0.40	ug/L			10/09/23 12:33	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/09/23 12:33	1

Client Sample ID: LC34-DPT0962-013.0-20231004

Lab Sample ID: 670-28133-8

Date Collected: 10/04/23 16:25
Matrix: Water
Date Received: 10/06/23 08:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		60 - 124		10/09/23 12:33	1
4-Bromofluorobenzene (Surr)	98		70 - 130		10/09/23 12:33	1
Dibromofluoromethane (Surr)	121		70 - 130		10/09/23 12:33	1
Toluene-d8 (Surr)	119		70 - 130		10/09/23 12:33	1

Client Sample ID: LC34-DPT0962-018.0-20231004

Lab Sample ID: 670-28133-9

Date Collected: 10/04/23 16:40
Matrix: Water
Date Received: 10/06/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/09/23 12:53	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/09/23 12:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/09/23 12:53	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/09/23 12:53	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/09/23 12:53	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/09/23 12:53	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/09/23 12:53	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/09/23 12:53	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/09/23 12:53	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 12:53	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/09/23 12:53	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/09/23 12:53	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 12:53	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 12:53	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			10/09/23 12:53	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/09/23 12:53	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/09/23 12:53	1
Acetone	3.7	U	10	3.7	ug/L			10/09/23 12:53	1
Benzene	0.27	U	1.0	0.27	ug/L			10/09/23 12:53	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/09/23 12:53	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/09/23 12:53	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/09/23 12:53	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/09/23 12:53	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/09/23 12:53	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/09/23 12:53	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/09/23 12:53	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/09/23 12:53	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/09/23 12:53	1
cis-1,2-Dichloroethene	**94**		1.0	0.25	ug/L			10/09/23 12:53	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/09/23 12:53	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/09/23 12:53	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/09/23 12:53	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/09/23 12:53	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/09/23 12:53	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/09/23 12:53	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/09/23 12:53	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/09/23 12:53	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/09/23 12:53	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/09/23 12:53	1

Client Sample ID: LC34-DPT0962-018.0-20231004

Lab Sample ID: 670-28133-9

Date Collected: 10/04/23 16:40
Matrix: Water
Date Received: 10/06/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	0.26	U	1.0	0.26	ug/L			10/09/23 12:53	1
Styrene	0.27	U	1.0	0.27	ug/L			10/09/23 12:53	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/09/23 12:53	1
Toluene	0.25	U	1.0	0.25	ug/L			10/09/23 12:53	1
trans-1,2-Dichloroethene	**1.7**		1.0	0.34	ug/L			10/09/23 12:53	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/09/23 12:53	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/09/23 12:53	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/09/23 12:53	1
Vinyl chloride	**48**		1.0	0.40	ug/L			10/09/23 12:53	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/09/23 12:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 124*		*10/09/23 12:53*	*1*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*10/09/23 12:53*	*1*
Dibromofluoromethane (Surr)	*117*		*70 - 130*		*10/09/23 12:53*	*1*
Toluene-d8 (Surr)	*116*		*70 - 130*		*10/09/23 12:53*	*1*

Client Sample ID: LC34-DPT0962-025.0-20231004

Lab Sample ID: 670-28133-10

Date Collected: 10/04/23 17:00
Matrix: Water
Date Received: 10/06/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	5.0	1.1	ug/L			10/09/23 16:41	5
1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	ug/L			10/09/23 16:41	5
1,1,2-Trichloro-1,2,2-trifluoroethane	1.2	U	5.0	1.2	ug/L			10/09/23 16:41	5
1,1,2-Trichloroethane	1.6	U	5.0	1.6	ug/L			10/09/23 16:41	5
1,1-Dichloroethane	1.7	U	5.0	1.7	ug/L			10/09/23 16:41	5
1,1-Dichloroethene	1.7	U	5.0	1.7	ug/L			10/09/23 16:41	5
1,2,4-Trichlorobenzene	2.7	U	25	2.7	ug/L			10/09/23 16:41	5
1,2-Dibromo-3-Chloropropane	9.0	U	25	9.0	ug/L			10/09/23 16:41	5
1,2-Dibromoethane (EDB)	1.7	U	5.0	1.7	ug/L			10/09/23 16:41	5
1,2-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/09/23 16:41	5
1,2-Dichloroethane	1.3	U	5.0	1.3	ug/L			10/09/23 16:41	5
1,2-Dichloropropane	1.1	U	5.0	1.1	ug/L			10/09/23 16:41	5
1,3-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/09/23 16:41	5
1,4-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/09/23 16:41	5
2-Butanone (MEK)	32	U J3	50	32	ug/L			10/09/23 16:41	5
2-Hexanone	16	U	50	16	ug/L			10/09/23 16:41	5
4-Methyl-2-pentanone	14	U	50	14	ug/L			10/09/23 16:41	5
Acetone	19	U	50	19	ug/L			10/09/23 16:41	5
Benzene	1.4	U	5.0	1.4	ug/L			10/09/23 16:41	5
Bromodichloromethane	1.3	U	5.0	1.3	ug/L			10/09/23 16:41	5
Bromoform	3.0	U	5.0	3.0	ug/L			10/09/23 16:41	5
Bromomethane	19	U	25	19	ug/L			10/09/23 16:41	5
Carbon disulfide	2.2	U	10	2.2	ug/L			10/09/23 16:41	5
Carbon tetrachloride	1.5	U	5.0	1.5	ug/L			10/09/23 16:41	5
Chlorobenzene	0.75	U	5.0	0.75	ug/L			10/09/23 16:41	5
Chloroethane	23	U	25	23	ug/L			10/09/23 16:41	5
Chloroform	1.4	U	5.0	1.4	ug/L			10/09/23 16:41	5

Client Sample ID: LC34-DPT0962-025.0-20231004

Lab Sample ID: 670-28133-10

Date Collected: 10/04/23 17:00
Matrix: Water
Date Received: 10/06/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	2.7	U	5.0	2.7	ug/L			10/09/23 16:41	5
cis-1,2-Dichloroethene	**710**		5.0	1.3	ug/L			10/09/23 16:41	5
cis-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			10/09/23 16:41	5
Cyclohexane	1.4	U	5.0	1.4	ug/L			10/09/23 16:41	5
Dibromochloromethane	2.0	U	5.0	2.0	ug/L			10/09/23 16:41	5
Dichlorodifluoromethane	1.8	U	5.0	1.8	ug/L			10/09/23 16:41	5
Ethylbenzene	1.0	U	5.0	1.0	ug/L			10/09/23 16:41	5
Isopropylbenzene	1.3	U	5.0	1.3	ug/L			10/09/23 16:41	5
m,p-Xylenes	2.5	U	5.0	2.5	ug/L			10/09/23 16:41	5
Methyl acetate	16	U	25	16	ug/L			10/09/23 16:41	5
Methyl tert-butyl ether	4.1	U	25	4.1	ug/L			10/09/23 16:41	5
Methylene Chloride	16	U	25	16	ug/L			10/09/23 16:41	5
o-Xylene	1.3	U	5.0	1.3	ug/L			10/09/23 16:41	5
Styrene	1.4	U	5.0	1.4	ug/L			10/09/23 16:41	5
Tetrachloroethene	1.8	U	5.0	1.8	ug/L			10/09/23 16:41	5
Toluene	1.3	U	5.0	1.3	ug/L			10/09/23 16:41	5
trans-1,2-Dichloroethene	**8.7**		5.0	1.7	ug/L			10/09/23 16:41	5
trans-1,3-Dichloropropene	1.2	U	5.0	1.2	ug/L			10/09/23 16:41	5
Trichloroethene	1.0	U	5.0	1.0	ug/L			10/09/23 16:41	5
Trichlorofluoromethane	1.7	U	5.0	1.7	ug/L			10/09/23 16:41	5
Vinyl chloride	**610**		5.0	2.0	ug/L			10/09/23 16:41	5
Xylenes, Total	1.2	U	5.0	1.2	ug/L			10/09/23 16:41	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*60 - 124*		*10/09/23 16:41*	*5*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*10/09/23 16:41*	*5*
Dibromofluoromethane (Surr)	*115*		*70 - 130*		*10/09/23 16:41*	*5*
Toluene-d8 (Surr)	*114*		*70 - 130*		*10/09/23 16:41*	*5*

Client Sample ID: LC34-DPT0962-034.0-20231005

Lab Sample ID: 670-28133-11

Date Collected: 10/05/23 08:00
Matrix: Water
Date Received: 10/06/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.3	U	25	5.3	ug/L			10/09/23 17:03	25
1,1,2,2-Tetrachloroethane	10	U	25	10	ug/L			10/09/23 17:03	25
1,1,2-Trichloro-1,2,2-trifluoroethane	5.8	U	25	5.8	ug/L			10/09/23 17:03	25
1,1,2-Trichloroethane	8.0	U	25	8.0	ug/L			10/09/23 17:03	25
1,1-Dichloroethane	8.3	U	25	8.3	ug/L			10/09/23 17:03	25
1,1-Dichloroethene	8.3	U	25	8.3	ug/L			10/09/23 17:03	25
1,2,4-Trichlorobenzene	13	U	130	13	ug/L			10/09/23 17:03	25
1,2-Dibromo-3-Chloropropane	45	U	130	45	ug/L			10/09/23 17:03	25
1,2-Dibromoethane (EDB)	8.3	U	25	8.3	ug/L			10/09/23 17:03	25
1,2-Dichlorobenzene	7.8	U	25	7.8	ug/L			10/09/23 17:03	25
1,2-Dichloroethane	6.3	U	25	6.3	ug/L			10/09/23 17:03	25
1,2-Dichloropropane	5.5	U	25	5.5	ug/L			10/09/23 17:03	25
1,3-Dichlorobenzene	7.8	U	25	7.8	ug/L			10/09/23 17:03	25
1,4-Dichlorobenzene	7.8	U	25	7.8	ug/L			10/09/23 17:03	25
2-Butanone (MEK)	160	U J3	250	160	ug/L			10/09/23 17:03	25

Client Sample ID: LC34-DPT0962-034.0-20231005

Lab Sample ID: 670-28133-11

Date Collected: 10/05/23 08:00
Matrix: Water
Date Received: 10/06/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	80	U	250	80	ug/L			10/09/23 17:03	25
4-Methyl-2-pentanone	68	U	250	68	ug/L			10/09/23 17:03	25
Acetone	93	U	250	93	ug/L			10/09/23 17:03	25
Benzene	6.8	U	25	6.8	ug/L			10/09/23 17:03	25
Bromodichloromethane	6.3	U	25	6.3	ug/L			10/09/23 17:03	25
Bromoform	15	U	25	15	ug/L			10/09/23 17:03	25
Bromomethane	93	U	130	93	ug/L			10/09/23 17:03	25
Carbon disulfide	11	U	50	11	ug/L			10/09/23 17:03	25
Carbon tetrachloride	7.5	U	25	7.5	ug/L			10/09/23 17:03	25
Chlorobenzene	3.8	U	25	3.8	ug/L			10/09/23 17:03	25
Chloroethane	120	U	130	120	ug/L			10/09/23 17:03	25
Chloroform	6.8	U	25	6.8	ug/L			10/09/23 17:03	25
Chloromethane	14	U	25	14	ug/L			10/09/23 17:03	25
cis-1,2-Dichloroethene	**360**		25	6.3	ug/L			10/09/23 17:03	25
cis-1,3-Dichloropropene	6.5	U	25	6.5	ug/L			10/09/23 17:03	25
Cyclohexane	7.0	U	25	7.0	ug/L			10/09/23 17:03	25
Dibromochloromethane	9.8	U	25	9.8	ug/L			10/09/23 17:03	25
Dichlorodifluoromethane	9.0	U	25	9.0	ug/L			10/09/23 17:03	25
Ethylbenzene	5.0	U	25	5.0	ug/L			10/09/23 17:03	25
Isopropylbenzene	6.5	U	25	6.5	ug/L			10/09/23 17:03	25
m,p-Xylenes	12	U	25	12	ug/L			10/09/23 17:03	25
Methyl acetate	80	U	130	80	ug/L			10/09/23 17:03	25
Methyl tert-butyl ether	20	U	130	20	ug/L			10/09/23 17:03	25
Methylene Chloride	80	U	130	80	ug/L			10/09/23 17:03	25
o-Xylene	6.5	U	25	6.5	ug/L			10/09/23 17:03	25
Styrene	6.8	U	25	6.8	ug/L			10/09/23 17:03	25
Tetrachloroethene	8.8	U	25	8.8	ug/L			10/09/23 17:03	25
Toluene	6.3	U	25	6.3	ug/L			10/09/23 17:03	25
trans-1,2-Dichloroethene	8.5	U	25	8.5	ug/L			10/09/23 17:03	25
trans-1,3-Dichloropropene	5.8	U	25	5.8	ug/L			10/09/23 17:03	25
Trichloroethene	5.0	U	25	5.0	ug/L			10/09/23 17:03	25
Trichlorofluoromethane	8.3	U	25	8.3	ug/L			10/09/23 17:03	25
Vinyl chloride	**2400**		25	10	ug/L			10/09/23 17:03	25
Xylenes, Total	5.8	U	25	5.8	ug/L			10/09/23 17:03	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*60 - 124*		*10/09/23 17:03*	*25*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*10/09/23 17:03*	*25*
Dibromofluoromethane (Surr)	*124*		*70 - 130*		*10/09/23 17:03*	*25*
Toluene-d8 (Surr)	*116*		*70 - 130*		*10/09/23 17:03*	*25*

Client Sample ID: LC34-DPT0962-038.0-20231005

Lab Sample ID: 670-28133-12

Date Collected: 10/05/23 08:20
Matrix: Water
Date Received: 10/06/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.3	U	25	5.3	ug/L			10/09/23 17:25	25
1,1,2,2-Tetrachloroethane	10	U	25	10	ug/L			10/09/23 17:25	25
1,1,2-Trichloro-1,2,2-trifluoroethane	5.8	U	25	5.8	ug/L			10/09/23 17:25	25

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28133-1
SDG: 670-28133-1

Client Sample ID: LC34-DPT0962-038.0-20231005
Date Collected: 10/05/23 08:20
Date Received: 10/06/23 08:00

Lab Sample ID: 670-28133-12
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	8.0	U	25	8.0	ug/L			10/09/23 17:25	25
1,1-Dichloroethane	8.3	U	25	8.3	ug/L			10/09/23 17:25	25
1,1-Dichloroethene	8.3	U	25	8.3	ug/L			10/09/23 17:25	25
1,2,4-Trichlorobenzene	13	U	130	13	ug/L			10/09/23 17:25	25
1,2-Dibromo-3-Chloropropane	45	U	130	45	ug/L			10/09/23 17:25	25
1,2-Dibromoethane (EDB)	8.3	U	25	8.3	ug/L			10/09/23 17:25	25
1,2-Dichlorobenzene	7.8	U	25	7.8	ug/L			10/09/23 17:25	25
1,2-Dichloroethane	6.3	U	25	6.3	ug/L			10/09/23 17:25	25
1,2-Dichloropropane	5.5	U	25	5.5	ug/L			10/09/23 17:25	25
1,3-Dichlorobenzene	7.8	U	25	7.8	ug/L			10/09/23 17:25	25
1,4-Dichlorobenzene	7.8	U	25	7.8	ug/L			10/09/23 17:25	25
2-Butanone (MEK)	160	U J3	250	160	ug/L			10/09/23 17:25	25
2-Hexanone	80	U	250	80	ug/L			10/09/23 17:25	25
4-Methyl-2-pentanone	68	U	250	68	ug/L			10/09/23 17:25	25
Acetone	93	U	250	93	ug/L			10/09/23 17:25	25
Benzene	6.8	U	25	6.8	ug/L			10/09/23 17:25	25
Bromodichloromethane	6.3	U	25	6.3	ug/L			10/09/23 17:25	25
Bromoform	15	U	25	15	ug/L			10/09/23 17:25	25
Bromomethane	93	U	130	93	ug/L			10/09/23 17:25	25
Carbon disulfide	11	U	50	11	ug/L			10/09/23 17:25	25
Carbon tetrachloride	7.5	U	25	7.5	ug/L			10/09/23 17:25	25
Chlorobenzene	3.8	U	25	3.8	ug/L			10/09/23 17:25	25
Chloroethane	120	U	130	120	ug/L			10/09/23 17:25	25
Chloroform	6.8	U	25	6.8	ug/L			10/09/23 17:25	25
Chloromethane	14	U	25	14	ug/L			10/09/23 17:25	25
cis-1,2-Dichloroethene	**320**		25	6.3	ug/L			10/09/23 17:25	25
cis-1,3-Dichloropropene	6.5	U	25	6.5	ug/L			10/09/23 17:25	25
Cyclohexane	7.0	U	25	7.0	ug/L			10/09/23 17:25	25
Dibromochloromethane	9.8	U	25	9.8	ug/L			10/09/23 17:25	25
Dichlorodifluoromethane	9.0	U	25	9.0	ug/L			10/09/23 17:25	25
Ethylbenzene	5.0	U	25	5.0	ug/L			10/09/23 17:25	25
Isopropylbenzene	6.5	U	25	6.5	ug/L			10/09/23 17:25	25
m,p-Xylenes	12	U	25	12	ug/L			10/09/23 17:25	25
Methyl acetate	80	U	130	80	ug/L			10/09/23 17:25	25
Methyl tert-butyl ether	20	U	130	20	ug/L			10/09/23 17:25	25
Methylene Chloride	80	U	130	80	ug/L			10/09/23 17:25	25
o-Xylene	6.5	U	25	6.5	ug/L			10/09/23 17:25	25
Styrene	6.8	U	25	6.8	ug/L			10/09/23 17:25	25
Tetrachloroethene	8.8	U	25	8.8	ug/L			10/09/23 17:25	25
Toluene	6.3	U	25	6.3	ug/L			10/09/23 17:25	25
trans-1,2-Dichloroethene	8.5	U	25	8.5	ug/L			10/09/23 17:25	25
trans-1,3-Dichloropropene	5.8	U	25	5.8	ug/L			10/09/23 17:25	25
Trichloroethene	5.0	U	25	5.0	ug/L			10/09/23 17:25	25
Trichlorofluoromethane	8.3	U	25	8.3	ug/L			10/09/23 17:25	25
Vinyl chloride	**890**		25	10	ug/L			10/09/23 17:25	25
Xylenes, Total	5.8	U	25	5.8	ug/L			10/09/23 17:25	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*60 - 124*		*10/09/23 17:25*	*25*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*10/09/23 17:25*	*25*

Client Sample ID: LC34-DPT0962-038.0-20231005

Lab Sample ID: 670-28133-12

Date Collected: 10/05/23 08:20
Matrix: Water
Date Received: 10/06/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*124*		*70 - 130*		*10/09/23 17:25*	*25*
Toluene-d8 (Surr)	*117*		*70 - 130*		*10/09/23 17:25*	*25*

Client Sample ID: LC34-DPT0963-008.0-20231005

Lab Sample ID: 670-28133-13

Date Collected: 10/05/23 09:05
Matrix: Water
Date Received: 10/06/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/09/23 13:13	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/09/23 13:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/09/23 13:13	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/09/23 13:13	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/09/23 13:13	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/09/23 13:13	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/09/23 13:13	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/09/23 13:13	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/09/23 13:13	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 13:13	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/09/23 13:13	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/09/23 13:13	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 13:13	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 13:13	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			10/09/23 13:13	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/09/23 13:13	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/09/23 13:13	1
Acetone	3.7	U	10	3.7	ug/L			10/09/23 13:13	1
Benzene	0.27	U	1.0	0.27	ug/L			10/09/23 13:13	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/09/23 13:13	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/09/23 13:13	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/09/23 13:13	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/09/23 13:13	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/09/23 13:13	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/09/23 13:13	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/09/23 13:13	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/09/23 13:13	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/09/23 13:13	1
cis-1,2-Dichloroethene	**1.4**		1.0	0.25	ug/L			10/09/23 13:13	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/09/23 13:13	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/09/23 13:13	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/09/23 13:13	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/09/23 13:13	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/09/23 13:13	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/09/23 13:13	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/09/23 13:13	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/09/23 13:13	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/09/23 13:13	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/09/23 13:13	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/09/23 13:13	1

Client Sample ID: LC34-DPT0963-008.0-20231005

Lab Sample ID: 670-28133-13

Date Collected: 10/05/23 09:05
Matrix: Water
Date Received: 10/06/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.27	U	1.0	0.27	ug/L			10/09/23 13:13	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/09/23 13:13	1
Toluene	0.25	U	1.0	0.25	ug/L			10/09/23 13:13	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/09/23 13:13	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/09/23 13:13	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/09/23 13:13	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/09/23 13:13	1
Vinyl chloride	**2.0**		1.0	0.40	ug/L			10/09/23 13:13	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/09/23 13:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*60 - 124*		*10/09/23 13:13*	*1*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*10/09/23 13:13*	*1*
Dibromofluoromethane (Surr)	*121*		*70 - 130*		*10/09/23 13:13*	*1*
Toluene-d8 (Surr)	*116*		*70 - 130*		*10/09/23 13:13*	*1*

Client Sample ID: LC34-DPT0963-013.0-20231005

Lab Sample ID: 670-28133-14

Date Collected: 10/05/23 09:20
Matrix: Water
Date Received: 10/06/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/09/23 13:33	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/09/23 13:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/09/23 13:33	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/09/23 13:33	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/09/23 13:33	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/09/23 13:33	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/09/23 13:33	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/09/23 13:33	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/09/23 13:33	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 13:33	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/09/23 13:33	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/09/23 13:33	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 13:33	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 13:33	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			10/09/23 13:33	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/09/23 13:33	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/09/23 13:33	1
Acetone	3.7	U	10	3.7	ug/L			10/09/23 13:33	1
Benzene	0.27	U	1.0	0.27	ug/L			10/09/23 13:33	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/09/23 13:33	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/09/23 13:33	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/09/23 13:33	1
Carbon disulfide	**0.49**	**I**	2.0	0.43	ug/L			10/09/23 13:33	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/09/23 13:33	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/09/23 13:33	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/09/23 13:33	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/09/23 13:33	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/09/23 13:33	1

Client Sample ID: LC34-DPT0963-013.0-20231005

Lab Sample ID: 670-28133-14

Date Collected: 10/05/23 09:20
Matrix: Water
Date Received: 10/06/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	12		1.0	0.25	ug/L			10/09/23 13:33	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/09/23 13:33	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/09/23 13:33	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/09/23 13:33	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/09/23 13:33	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/09/23 13:33	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/09/23 13:33	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/09/23 13:33	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/09/23 13:33	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/09/23 13:33	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/09/23 13:33	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/09/23 13:33	1
Styrene	0.27	U	1.0	0.27	ug/L			10/09/23 13:33	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/09/23 13:33	1
Toluene	0.25	U	1.0	0.25	ug/L			10/09/23 13:33	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/09/23 13:33	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/09/23 13:33	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/09/23 13:33	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/09/23 13:33	1
Vinyl chloride	94		1.0	0.40	ug/L			10/09/23 13:33	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/09/23 13:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*60 - 124*		*10/09/23 13:33*	*1*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*10/09/23 13:33*	*1*
Dibromofluoromethane (Surr)	*120*		*70 - 130*		*10/09/23 13:33*	*1*
Toluene-d8 (Surr)	*116*		*70 - 130*		*10/09/23 13:33*	*1*

Client Sample ID: LC34-DPT0963-018.0-20231005

Lab Sample ID: 670-28133-15

Date Collected: 10/05/23 09:35
Matrix: Water
Date Received: 10/06/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/09/23 13:53	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/09/23 13:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/09/23 13:53	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/09/23 13:53	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/09/23 13:53	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/09/23 13:53	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/09/23 13:53	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/09/23 13:53	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/09/23 13:53	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 13:53	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/09/23 13:53	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/09/23 13:53	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 13:53	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 13:53	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			10/09/23 13:53	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/09/23 13:53	1

Client Sample ID: LC34-DPT0963-018.0-20231005
Date Collected: 10/05/23 09:35
Date Received: 10/06/23 08:00

Lab Sample ID: 670-28133-15
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/09/23 13:53	1
Acetone	3.7	U	10	3.7	ug/L			10/09/23 13:53	1
Benzene	0.27	U	1.0	0.27	ug/L			10/09/23 13:53	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/09/23 13:53	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/09/23 13:53	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/09/23 13:53	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/09/23 13:53	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/09/23 13:53	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/09/23 13:53	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/09/23 13:53	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/09/23 13:53	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/09/23 13:53	1
cis-1,2-Dichloroethene	**63**		1.0	0.25	ug/L			10/09/23 13:53	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/09/23 13:53	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/09/23 13:53	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/09/23 13:53	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/09/23 13:53	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/09/23 13:53	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/09/23 13:53	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/09/23 13:53	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/09/23 13:53	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/09/23 13:53	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/09/23 13:53	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/09/23 13:53	1
Styrene	0.27	U	1.0	0.27	ug/L			10/09/23 13:53	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/09/23 13:53	1
Toluene	0.25	U	1.0	0.25	ug/L			10/09/23 13:53	1
trans-1,2-Dichloroethene	**3.1**		1.0	0.34	ug/L			10/09/23 13:53	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/09/23 13:53	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/09/23 13:53	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/09/23 13:53	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/09/23 13:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 124*		*10/09/23 13:53*	*1*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*10/09/23 13:53*	*1*
Dibromofluoromethane (Surr)	*118*		*70 - 130*		*10/09/23 13:53*	*1*
Toluene-d8 (Surr)	*114*		*70 - 130*		*10/09/23 13:53*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	**360**		5.0	2.0	ug/L			10/10/23 00:16	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*60 - 124*		*10/10/23 00:16*	*5*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/10/23 00:16*	*5*
Dibromofluoromethane (Surr)	*117*		*70 - 130*		*10/10/23 00:16*	*5*
Toluene-d8 (Surr)	*116*		*70 - 130*		*10/10/23 00:16*	*5*

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28133-1
SDG: 670-28133-1

Client Sample ID: LC34-DPT0963-025.0-20231005
Date Collected: 10/05/23 09:55
Date Received: 10/06/23 08:00

Lab Sample ID: 670-28133-16
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.42	U	2.0	0.42	ug/L			10/09/23 21:39	2
1,1,2,2-Tetrachloroethane	0.80	U	2.0	0.80	ug/L			10/09/23 21:39	2
1,1,2-Trichloro-1,2,2-trifluoroethane	0.46	U	2.0	0.46	ug/L			10/09/23 21:39	2
1,1,2-Trichloroethane	0.64	U	2.0	0.64	ug/L			10/09/23 21:39	2
1,1-Dichloroethane	0.66	U	2.0	0.66	ug/L			10/09/23 21:39	2
1,1-Dichloroethene	0.66	U	2.0	0.66	ug/L			10/09/23 21:39	2
1,2,4-Trichlorobenzene	1.1	U	10	1.1	ug/L			10/09/23 21:39	2
1,2-Dibromo-3-Chloropropane	3.6	U	10	3.6	ug/L			10/09/23 21:39	2
1,2-Dibromoethane (EDB)	0.66	U	2.0	0.66	ug/L			10/09/23 21:39	2
1,2-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/09/23 21:39	2
1,2-Dichloroethane	0.50	U	2.0	0.50	ug/L			10/09/23 21:39	2
1,2-Dichloropropane	0.44	U	2.0	0.44	ug/L			10/09/23 21:39	2
1,3-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/09/23 21:39	2
1,4-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/09/23 21:39	2
2-Butanone (MEK)	13	U J3	20	13	ug/L			10/09/23 21:39	2
2-Hexanone	6.4	U	20	6.4	ug/L			10/09/23 21:39	2
4-Methyl-2-pentanone	5.4	U	20	5.4	ug/L			10/09/23 21:39	2
Acetone	7.4	U	20	7.4	ug/L			10/09/23 21:39	2
Benzene	0.54	U	2.0	0.54	ug/L			10/09/23 21:39	2
Bromodichloromethane	0.50	U	2.0	0.50	ug/L			10/09/23 21:39	2
Bromoform	1.2	U	2.0	1.2	ug/L			10/09/23 21:39	2
Bromomethane	7.4	U	10	7.4	ug/L			10/09/23 21:39	2
Carbon disulfide	**1.9**	**I**	4.0	0.86	ug/L			10/09/23 21:39	2
Carbon tetrachloride	0.60	U	2.0	0.60	ug/L			10/09/23 21:39	2
Chlorobenzene	0.30	U	2.0	0.30	ug/L			10/09/23 21:39	2
Chloroethane	9.2	U	10	9.2	ug/L			10/09/23 21:39	2
Chloroform	0.54	U	2.0	0.54	ug/L			10/09/23 21:39	2
Chloromethane	1.1	U	2.0	1.1	ug/L			10/09/23 21:39	2
cis-1,2-Dichloroethene	**30**		2.0	0.50	ug/L			10/09/23 21:39	2
cis-1,3-Dichloropropene	0.52	U	2.0	0.52	ug/L			10/09/23 21:39	2
Cyclohexane	0.56	U	2.0	0.56	ug/L			10/09/23 21:39	2
Dibromochloromethane	0.78	U	2.0	0.78	ug/L			10/09/23 21:39	2
Dichlorodifluoromethane	0.72	U	2.0	0.72	ug/L			10/09/23 21:39	2
Ethylbenzene	0.40	U	2.0	0.40	ug/L			10/09/23 21:39	2
Isopropylbenzene	0.52	U	2.0	0.52	ug/L			10/09/23 21:39	2
m,p-Xylenes	0.98	U	2.0	0.98	ug/L			10/09/23 21:39	2
Methyl acetate	6.4	U	10	6.4	ug/L			10/09/23 21:39	2
Methyl tert-butyl ether	1.6	U	10	1.6	ug/L			10/09/23 21:39	2
Methylene Chloride	6.4	U	10	6.4	ug/L			10/09/23 21:39	2
o-Xylene	0.52	U	2.0	0.52	ug/L			10/09/23 21:39	2
Styrene	0.54	U	2.0	0.54	ug/L			10/09/23 21:39	2
Tetrachloroethene	0.70	U	2.0	0.70	ug/L			10/09/23 21:39	2
Toluene	0.50	U	2.0	0.50	ug/L			10/09/23 21:39	2
trans-1,2-Dichloroethene	**4.2**		2.0	0.68	ug/L			10/09/23 21:39	2
trans-1,3-Dichloropropene	0.46	U	2.0	0.46	ug/L			10/09/23 21:39	2
Trichloroethene	0.40	U	2.0	0.40	ug/L			10/09/23 21:39	2
Trichlorofluoromethane	0.66	U	2.0	0.66	ug/L			10/09/23 21:39	2
Vinyl chloride	**350**		2.0	0.80	ug/L			10/09/23 21:39	2
Xylenes, Total	0.46	U	2.0	0.46	ug/L			10/09/23 21:39	2

Client Sample ID: LC34-DPT0963-025.0-20231005

Lab Sample ID: 670-28133-16

Date Collected: 10/05/23 09:55
Matrix: Water
Date Received: 10/06/23 08:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*109*		*60 - 124*		*10/09/23 21:39*	*2*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/09/23 21:39*	*2*
Dibromofluoromethane (Surr)	*120*		*70 - 130*		*10/09/23 21:39*	*2*
Toluene-d8 (Surr)	*117*		*70 - 130*		*10/09/23 21:39*	*2*

Client Sample ID: LC34-DPT0963-034.0-20231005

Lab Sample ID: 670-28133-17

Date Collected: 10/05/23 10:15
Matrix: Water
Date Received: 10/06/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.3	U	25	5.3	ug/L			10/09/23 22:02	25
1,1,2,2-Tetrachloroethane	10	U	25	10	ug/L			10/09/23 22:02	25
1,1,2-Trichloro-1,2,2-trifluoroethane	5.8	U	25	5.8	ug/L			10/09/23 22:02	25
1,1,2-Trichloroethane	8.0	U	25	8.0	ug/L			10/09/23 22:02	25
1,1-Dichloroethane	8.3	U	25	8.3	ug/L			10/09/23 22:02	25
1,1-Dichloroethene	8.3	U	25	8.3	ug/L			10/09/23 22:02	25
1,2,4-Trichlorobenzene	13	U	130	13	ug/L			10/09/23 22:02	25
1,2-Dibromo-3-Chloropropane	45	U	130	45	ug/L			10/09/23 22:02	25
1,2-Dibromoethane (EDB)	8.3	U	25	8.3	ug/L			10/09/23 22:02	25
1,2-Dichlorobenzene	7.8	U	25	7.8	ug/L			10/09/23 22:02	25
1,2-Dichloroethane	6.3	U	25	6.3	ug/L			10/09/23 22:02	25
1,2-Dichloropropane	5.5	U	25	5.5	ug/L			10/09/23 22:02	25
1,3-Dichlorobenzene	7.8	U	25	7.8	ug/L			10/09/23 22:02	25
1,4-Dichlorobenzene	7.8	U	25	7.8	ug/L			10/09/23 22:02	25
2-Butanone (MEK)	160	U J3	250	160	ug/L			10/09/23 22:02	25
2-Hexanone	80	U	250	80	ug/L			10/09/23 22:02	25
4-Methyl-2-pentanone	68	U	250	68	ug/L			10/09/23 22:02	25
Acetone	93	U	250	93	ug/L			10/09/23 22:02	25
Benzene	6.8	U	25	6.8	ug/L			10/09/23 22:02	25
Bromodichloromethane	6.3	U	25	6.3	ug/L			10/09/23 22:02	25
Bromoform	15	U	25	15	ug/L			10/09/23 22:02	25
Bromomethane	93	U	130	93	ug/L			10/09/23 22:02	25
Carbon disulfide	11	U	50	11	ug/L			10/09/23 22:02	25
Carbon tetrachloride	7.5	U	25	7.5	ug/L			10/09/23 22:02	25
Chlorobenzene	3.8	U	25	3.8	ug/L			10/09/23 22:02	25
Chloroethane	120	U	130	120	ug/L			10/09/23 22:02	25
Chloroform	6.8	U	25	6.8	ug/L			10/09/23 22:02	25
Chloromethane	14	U	25	14	ug/L			10/09/23 22:02	25
cis-1,2-Dichloroethene	**3100**		25	6.3	ug/L			10/09/23 22:02	25
cis-1,3-Dichloropropene	6.5	U	25	6.5	ug/L			10/09/23 22:02	25
Cyclohexane	7.0	U	25	7.0	ug/L			10/09/23 22:02	25
Dibromochloromethane	9.8	U	25	9.8	ug/L			10/09/23 22:02	25
Dichlorodifluoromethane	9.0	U	25	9.0	ug/L			10/09/23 22:02	25
Ethylbenzene	5.0	U	25	5.0	ug/L			10/09/23 22:02	25
Isopropylbenzene	6.5	U	25	6.5	ug/L			10/09/23 22:02	25
m,p-Xylenes	12	U	25	12	ug/L			10/09/23 22:02	25
Methyl acetate	80	U	130	80	ug/L			10/09/23 22:02	25
Methyl tert-butyl ether	20	U	130	20	ug/L			10/09/23 22:02	25
Methylene Chloride	80	U	130	80	ug/L			10/09/23 22:02	25

Client Sample ID: LC34-DPT0963-034.0-20231005 **Lab Sample ID: 670-28133-17**
Date Collected: 10/05/23 10:15 **Matrix: Water**
Date Received: 10/06/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	6.5	U	25	6.5	ug/L			10/09/23 22:02	25
Styrene	6.8	U	25	6.8	ug/L			10/09/23 22:02	25
Tetrachloroethene	8.8	U	25	8.8	ug/L			10/09/23 22:02	25
Toluene	6.3	U	25	6.3	ug/L			10/09/23 22:02	25
trans-1,2-Dichloroethene	**15**	**I**	25	8.5	ug/L			10/09/23 22:02	25
trans-1,3-Dichloropropene	5.8	U	25	5.8	ug/L			10/09/23 22:02	25
Trichloroethene	5.0	U	25	5.0	ug/L			10/09/23 22:02	25
Trichlorofluoromethane	8.3	U	25	8.3	ug/L			10/09/23 22:02	25
Vinyl chloride	**3100**		25	10	ug/L			10/09/23 22:02	25
Xylenes, Total	5.8	U	25	5.8	ug/L			10/09/23 22:02	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*60 - 124*		*10/09/23 22:02*	*25*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*10/09/23 22:02*	*25*
Dibromofluoromethane (Surr)	*108*		*70 - 130*		*10/09/23 22:02*	*25*
Toluene-d8 (Surr)	*118*		*70 - 130*		*10/09/23 22:02*	*25*

Client Sample ID: LC34-DPT0963-038.0-20231005 **Lab Sample ID: 670-28133-18**
Date Collected: 10/05/23 10:35 **Matrix: Water**
Date Received: 10/06/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	5.0	1.1	ug/L			10/09/23 22:24	5
1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	ug/L			10/09/23 22:24	5
1,1,2-Trichloro-1,2,2-trifluoroethane	1.2	U	5.0	1.2	ug/L			10/09/23 22:24	5
1,1,2-Trichloroethane	1.6	U	5.0	1.6	ug/L			10/09/23 22:24	5
1,1-Dichloroethane	1.7	U	5.0	1.7	ug/L			10/09/23 22:24	5
1,1-Dichloroethene	1.7	U	5.0	1.7	ug/L			10/09/23 22:24	5
1,2,4-Trichlorobenzene	2.7	U	25	2.7	ug/L			10/09/23 22:24	5
1,2-Dibromo-3-Chloropropane	9.0	U	25	9.0	ug/L			10/09/23 22:24	5
1,2-Dibromoethane (EDB)	1.7	U	5.0	1.7	ug/L			10/09/23 22:24	5
1,2-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/09/23 22:24	5
1,2-Dichloroethane	1.3	U	5.0	1.3	ug/L			10/09/23 22:24	5
1,2-Dichloropropane	1.1	U	5.0	1.1	ug/L			10/09/23 22:24	5
1,3-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/09/23 22:24	5
1,4-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/09/23 22:24	5
2-Butanone (MEK)	32	U J3	50	32	ug/L			10/09/23 22:24	5
2-Hexanone	16	U	50	16	ug/L			10/09/23 22:24	5
4-Methyl-2-pentanone	14	U	50	14	ug/L			10/09/23 22:24	5
Acetone	19	U	50	19	ug/L			10/09/23 22:24	5
Benzene	1.4	U	5.0	1.4	ug/L			10/09/23 22:24	5
Bromodichloromethane	1.3	U	5.0	1.3	ug/L			10/09/23 22:24	5
Bromoform	3.0	U	5.0	3.0	ug/L			10/09/23 22:24	5
Bromomethane	19	U	25	19	ug/L			10/09/23 22:24	5
Carbon disulfide	2.2	U	10	2.2	ug/L			10/09/23 22:24	5
Carbon tetrachloride	1.5	U	5.0	1.5	ug/L			10/09/23 22:24	5
Chlorobenzene	0.75	U	5.0	0.75	ug/L			10/09/23 22:24	5
Chloroethane	23	U	25	23	ug/L			10/09/23 22:24	5
Chloroform	1.4	U	5.0	1.4	ug/L			10/09/23 22:24	5

Client Sample ID: LC34-DPT0963-038.0-20231005

Lab Sample ID: 670-28133-18

Date Collected: 10/05/23 10:35
Matrix: Water
Date Received: 10/06/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	2.7	U	5.0	2.7	ug/L			10/09/23 22:24	5
cis-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			10/09/23 22:24	5
Cyclohexane	1.4	U	5.0	1.4	ug/L			10/09/23 22:24	5
Dibromochloromethane	2.0	U	5.0	2.0	ug/L			10/09/23 22:24	5
Dichlorodifluoromethane	1.8	U	5.0	1.8	ug/L			10/09/23 22:24	5
Ethylbenzene	1.0	U	5.0	1.0	ug/L			10/09/23 22:24	5
Isopropylbenzene	1.3	U	5.0	1.3	ug/L			10/09/23 22:24	5
m,p-Xylenes	2.5	U	5.0	2.5	ug/L			10/09/23 22:24	5
Methyl acetate	16	U	25	16	ug/L			10/09/23 22:24	5
Methyl tert-butyl ether	4.1	U	25	4.1	ug/L			10/09/23 22:24	5
Methylene Chloride	16	U	25	16	ug/L			10/09/23 22:24	5
o-Xylene	1.3	U	5.0	1.3	ug/L			10/09/23 22:24	5
Styrene	1.4	U	5.0	1.4	ug/L			10/09/23 22:24	5
Tetrachloroethene	1.8	U	5.0	1.8	ug/L			10/09/23 22:24	5
Toluene	1.3	U	5.0	1.3	ug/L			10/09/23 22:24	5
trans-1,2-Dichloroethene	**1.7**	**I**	5.0	1.7	ug/L			10/09/23 22:24	5
trans-1,3-Dichloropropene	1.2	U	5.0	1.2	ug/L			10/09/23 22:24	5
Trichloroethene	1.0	U	5.0	1.0	ug/L			10/09/23 22:24	5
Trichlorofluoromethane	1.7	U	5.0	1.7	ug/L			10/09/23 22:24	5
Vinyl chloride	**53**		5.0	2.0	ug/L			10/09/23 22:24	5
Xylenes, Total	1.2	U	5.0	1.2	ug/L			10/09/23 22:24	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 124*		*10/09/23 22:24*	*5*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*10/09/23 22:24*	*5*
Dibromofluoromethane (Surr)	*106*		*70 - 130*		*10/09/23 22:24*	*5*
Toluene-d8 (Surr)	*114*		*70 - 130*		*10/09/23 22:24*	*5*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**2500**		25	6.3	ug/L			10/10/23 19:58	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*60 - 124*		*10/10/23 19:58*	*25*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*10/10/23 19:58*	*25*
Dibromofluoromethane (Surr)	*115*		*70 - 130*		*10/10/23 19:58*	*25*
Toluene-d8 (Surr)	*116*		*70 - 130*		*10/10/23 19:58*	*25*

Client Sample ID: LC34-DPT0964-008.0-20231005

Lab Sample ID: 670-28133-19

Date Collected: 10/05/23 11:15
Matrix: Water
Date Received: 10/06/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/09/23 14:13	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/09/23 14:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/09/23 14:13	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/09/23 14:13	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/09/23 14:13	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/09/23 14:13	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/09/23 14:13	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28133-1
SDG: 670-28133-1

Client Sample ID: LC34-DPT0964-008.0-20231005
Date Collected: 10/05/23 11:15
Date Received: 10/06/23 08:00

Lab Sample ID: 670-28133-19
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/09/23 14:13	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/09/23 14:13	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 14:13	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/09/23 14:13	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/09/23 14:13	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 14:13	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 14:13	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			10/09/23 14:13	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/09/23 14:13	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/09/23 14:13	1
Acetone	3.7	U	10	3.7	ug/L			10/09/23 14:13	1
Benzene	0.27	U	1.0	0.27	ug/L			10/09/23 14:13	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/09/23 14:13	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/09/23 14:13	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/09/23 14:13	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/09/23 14:13	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/09/23 14:13	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/09/23 14:13	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/09/23 14:13	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/09/23 14:13	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/09/23 14:13	1
cis-1,2-Dichloroethene	**4.8**		1.0	0.25	ug/L			10/09/23 14:13	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/09/23 14:13	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/09/23 14:13	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/09/23 14:13	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/09/23 14:13	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/09/23 14:13	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/09/23 14:13	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/09/23 14:13	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/09/23 14:13	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/09/23 14:13	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/09/23 14:13	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/09/23 14:13	1
Styrene	0.27	U	1.0	0.27	ug/L			10/09/23 14:13	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/09/23 14:13	1
Toluene	0.25	U	1.0	0.25	ug/L			10/09/23 14:13	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/09/23 14:13	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/09/23 14:13	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/09/23 14:13	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/09/23 14:13	1
Vinyl chloride	**9.6**		1.0	0.40	ug/L			10/09/23 14:13	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/09/23 14:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*60 - 124*		*10/09/23 14:13*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*10/09/23 14:13*	*1*
Dibromofluoromethane (Surr)	*122*		*70 - 130*		*10/09/23 14:13*	*1*
Toluene-d8 (Surr)	*119*		*70 - 130*		*10/09/23 14:13*	*1*

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28133-1
SDG: 670-28133-1

Client Sample ID: LC34-DPT0964-013.0-20231005
Date Collected: 10/05/23 11:30
Date Received: 10/06/23 08:00

Lab Sample ID: 670-28133-20
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/09/23 14:33	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/09/23 14:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/09/23 14:33	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/09/23 14:33	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/09/23 14:33	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/09/23 14:33	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/09/23 14:33	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/09/23 14:33	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/09/23 14:33	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 14:33	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/09/23 14:33	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/09/23 14:33	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 14:33	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 14:33	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			10/09/23 14:33	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/09/23 14:33	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/09/23 14:33	1
Acetone	3.7	U	10	3.7	ug/L			10/09/23 14:33	1
Benzene	0.27	U	1.0	0.27	ug/L			10/09/23 14:33	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/09/23 14:33	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/09/23 14:33	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/09/23 14:33	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/09/23 14:33	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/09/23 14:33	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/09/23 14:33	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/09/23 14:33	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/09/23 14:33	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/09/23 14:33	1
cis-1,2-Dichloroethene	**140**		1.0	0.25	ug/L			10/09/23 14:33	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/09/23 14:33	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/09/23 14:33	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/09/23 14:33	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/09/23 14:33	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/09/23 14:33	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/09/23 14:33	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/09/23 14:33	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/09/23 14:33	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/09/23 14:33	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/09/23 14:33	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/09/23 14:33	1
Styrene	0.27	U	1.0	0.27	ug/L			10/09/23 14:33	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/09/23 14:33	1
Toluene	0.25	U	1.0	0.25	ug/L			10/09/23 14:33	1
trans-1,2-Dichloroethene	**2.4**		1.0	0.34	ug/L			10/09/23 14:33	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/09/23 14:33	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/09/23 14:33	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/09/23 14:33	1
Vinyl chloride	**72**		1.0	0.40	ug/L			10/09/23 14:33	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/09/23 14:33	1

Client Sample ID: LC34-DPT0964-013.0-20231005

Lab Sample ID: 670-28133-20

Date Collected: 10/05/23 11:30
Matrix: Water
Date Received: 10/06/23 08:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		60 - 124		10/09/23 14:33	1
4-Bromofluorobenzene (Surr)	98		70 - 130		10/09/23 14:33	1
Dibromofluoromethane (Surr)	114		70 - 130		10/09/23 14:33	1
Toluene-d8 (Surr)	116		70 - 130		10/09/23 14:33	1

Client Sample ID: LC34-DPT0964-018.0-20231005

Lab Sample ID: 670-28133-21

Date Collected: 10/05/23 11:45
Matrix: Water
Date Received: 10/06/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/09/23 14:53	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/09/23 14:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/09/23 14:53	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/09/23 14:53	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/09/23 14:53	1
1,1-Dichloroethene	**1.1**		1.0	0.33	ug/L			10/09/23 14:53	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/09/23 14:53	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/09/23 14:53	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/09/23 14:53	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 14:53	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/09/23 14:53	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/09/23 14:53	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 14:53	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 14:53	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			10/09/23 14:53	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/09/23 14:53	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/09/23 14:53	1
Acetone	3.7	U	10	3.7	ug/L			10/09/23 14:53	1
Benzene	0.27	U	1.0	0.27	ug/L			10/09/23 14:53	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/09/23 14:53	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/09/23 14:53	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/09/23 14:53	1
Carbon disulfide	**0.47**	**I**	2.0	0.43	ug/L			10/09/23 14:53	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/09/23 14:53	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/09/23 14:53	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/09/23 14:53	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/09/23 14:53	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/09/23 14:53	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/09/23 14:53	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/09/23 14:53	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/09/23 14:53	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/09/23 14:53	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/09/23 14:53	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/09/23 14:53	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/09/23 14:53	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/09/23 14:53	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/09/23 14:53	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/09/23 14:53	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/09/23 14:53	1

Client Sample ID: LC34-DPT0964-018.0-20231005

Lab Sample ID: 670-28133-21

Date Collected: 10/05/23 11:45
Matrix: Water
Date Received: 10/06/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.27	U	1.0	0.27	ug/L			10/09/23 14:53	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/09/23 14:53	1
Toluene	0.25	U	1.0	0.25	ug/L			10/09/23 14:53	1
trans-1,2-Dichloroethene	**9.5**		1.0	0.34	ug/L			10/09/23 14:53	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/09/23 14:53	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/09/23 14:53	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/09/23 14:53	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/09/23 14:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 124*		*10/09/23 14:53*	*1*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*10/09/23 14:53*	*1*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*10/09/23 14:53*	*1*
Toluene-d8 (Surr)	*115*		*70 - 130*		*10/09/23 14:53*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**510**		5.0	1.3	ug/L			10/10/23 00:39	5
Vinyl chloride	**210**		5.0	2.0	ug/L			10/10/23 00:39	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*60 - 124*		*10/10/23 00:39*	*5*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*10/10/23 00:39*	*5*
Dibromofluoromethane (Surr)	*110*		*70 - 130*		*10/10/23 00:39*	*5*
Toluene-d8 (Surr)	*116*		*70 - 130*		*10/10/23 00:39*	*5*

Client Sample ID: LC34-DPT0964-025.0-20231005

Lab Sample ID: 670-28133-22

Date Collected: 10/05/23 12:00
Matrix: Water
Date Received: 10/06/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2.1	U	10	2.1	ug/L			10/09/23 22:47	10
1,1,2,2-Tetrachloroethane	4.0	U	10	4.0	ug/L			10/09/23 22:47	10
1,1,2-Trichloro-1,2,2-trifluoroethane	2.3	U	10	2.3	ug/L			10/09/23 22:47	10
1,1,2-Trichloroethane	3.2	U	10	3.2	ug/L			10/09/23 22:47	10
1,1-Dichloroethane	3.3	U	10	3.3	ug/L			10/09/23 22:47	10
1,1-Dichloroethene	3.3	U	10	3.3	ug/L			10/09/23 22:47	10
1,2,4-Trichlorobenzene	5.3	U	50	5.3	ug/L			10/09/23 22:47	10
1,2-Dibromo-3-Chloropropane	18	U	50	18	ug/L			10/09/23 22:47	10
1,2-Dibromoethane (EDB)	3.3	U	10	3.3	ug/L			10/09/23 22:47	10
1,2-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/09/23 22:47	10
1,2-Dichloroethane	2.5	U	10	2.5	ug/L			10/09/23 22:47	10
1,2-Dichloropropane	2.2	U	10	2.2	ug/L			10/09/23 22:47	10
1,3-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/09/23 22:47	10
1,4-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/09/23 22:47	10
2-Butanone (MEK)	64	U J3	100	64	ug/L			10/09/23 22:47	10
2-Hexanone	32	U	100	32	ug/L			10/09/23 22:47	10
4-Methyl-2-pentanone	27	U	100	27	ug/L			10/09/23 22:47	10
Acetone	37	U	100	37	ug/L			10/09/23 22:47	10
Benzene	2.7	U	10	2.7	ug/L			10/09/23 22:47	10

Client Sample ID: LC34-DPT0964-025.0-20231005

Lab Sample ID: 670-28133-22

Date Collected: 10/05/23 12:00
Matrix: Water
Date Received: 10/06/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	2.5	U	10	2.5	ug/L			10/09/23 22:47	10
Bromoform	5.9	U	10	5.9	ug/L			10/09/23 22:47	10
Bromomethane	37	U	50	37	ug/L			10/09/23 22:47	10
Carbon disulfide	4.3	U	20	4.3	ug/L			10/09/23 22:47	10
Carbon tetrachloride	3.0	U	10	3.0	ug/L			10/09/23 22:47	10
Chlorobenzene	1.5	U	10	1.5	ug/L			10/09/23 22:47	10
Chloroethane	46	U	50	46	ug/L			10/09/23 22:47	10
Chloroform	2.7	U	10	2.7	ug/L			10/09/23 22:47	10
Chloromethane	5.4	U	10	5.4	ug/L			10/09/23 22:47	10
cis-1,2-Dichloroethene	**1900**		10	2.5	ug/L			10/09/23 22:47	10
cis-1,3-Dichloropropene	2.6	U	10	2.6	ug/L			10/09/23 22:47	10
Cyclohexane	2.8	U	10	2.8	ug/L			10/09/23 22:47	10
Dibromochloromethane	3.9	U	10	3.9	ug/L			10/09/23 22:47	10
Dichlorodifluoromethane	3.6	U	10	3.6	ug/L			10/09/23 22:47	10
Ethylbenzene	2.0	U	10	2.0	ug/L			10/09/23 22:47	10
Isopropylbenzene	2.6	U	10	2.6	ug/L			10/09/23 22:47	10
m,p-Xylenes	4.9	U	10	4.9	ug/L			10/09/23 22:47	10
Methyl acetate	32	U	50	32	ug/L			10/09/23 22:47	10
Methyl tert-butyl ether	8.1	U	50	8.1	ug/L			10/09/23 22:47	10
Methylene Chloride	32	U	50	32	ug/L			10/09/23 22:47	10
o-Xylene	2.6	U	10	2.6	ug/L			10/09/23 22:47	10
Styrene	2.7	U	10	2.7	ug/L			10/09/23 22:47	10
Tetrachloroethene	3.5	U	10	3.5	ug/L			10/09/23 22:47	10
Toluene	2.5	U	10	2.5	ug/L			10/09/23 22:47	10
trans-1,2-Dichloroethene	**53**		10	3.4	ug/L			10/09/23 22:47	10
trans-1,3-Dichloropropene	2.3	U	10	2.3	ug/L			10/09/23 22:47	10
Trichloroethene	2.0	U	10	2.0	ug/L			10/09/23 22:47	10
Trichlorofluoromethane	3.3	U	10	3.3	ug/L			10/09/23 22:47	10
Vinyl chloride	**480**		10	4.0	ug/L			10/09/23 22:47	10
Xylenes, Total	2.3	U	10	2.3	ug/L			10/09/23 22:47	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*60 - 124*		*10/09/23 22:47*	*10*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*10/09/23 22:47*	*10*
Dibromofluoromethane (Surr)	*108*		*70 - 130*		*10/09/23 22:47*	*10*
Toluene-d8 (Surr)	*116*		*70 - 130*		*10/09/23 22:47*	*10*

Client Sample ID: LC34-DPT0964-034.0-20231005

Lab Sample ID: 670-28133-23

Date Collected: 10/05/23 12:15
Matrix: Water
Date Received: 10/06/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/09/23 15:13	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/09/23 15:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/09/23 15:13	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/09/23 15:13	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/09/23 15:13	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/09/23 15:13	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/09/23 15:13	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28133-1
SDG: 670-28133-1

Client Sample ID: LC34-DPT0964-034.0-20231005
Date Collected: 10/05/23 12:15
Date Received: 10/06/23 08:00

Lab Sample ID: 670-28133-23
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/09/23 15:13	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/09/23 15:13	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 15:13	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/09/23 15:13	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/09/23 15:13	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 15:13	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 15:13	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			10/09/23 15:13	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/09/23 15:13	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/09/23 15:13	1
Acetone	3.7	U	10	3.7	ug/L			10/09/23 15:13	1
Benzene	0.27	U	1.0	0.27	ug/L			10/09/23 15:13	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/09/23 15:13	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/09/23 15:13	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/09/23 15:13	1
Carbon disulfide	**0.86**	**I**	2.0	0.43	ug/L			10/09/23 15:13	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/09/23 15:13	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/09/23 15:13	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/09/23 15:13	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/09/23 15:13	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/09/23 15:13	1
cis-1,2-Dichloroethene	**79**		1.0	0.25	ug/L			10/09/23 15:13	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/09/23 15:13	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/09/23 15:13	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/09/23 15:13	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/09/23 15:13	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/09/23 15:13	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/09/23 15:13	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/09/23 15:13	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/09/23 15:13	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/09/23 15:13	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/09/23 15:13	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/09/23 15:13	1
Styrene	0.27	U	1.0	0.27	ug/L			10/09/23 15:13	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/09/23 15:13	1
Toluene	0.25	U	1.0	0.25	ug/L			10/09/23 15:13	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/09/23 15:13	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/09/23 15:13	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/09/23 15:13	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/09/23 15:13	1
Vinyl chloride	**0.97**	**I**	1.0	0.40	ug/L			10/09/23 15:13	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/09/23 15:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 124*		*10/09/23 15:13*	*1*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*10/09/23 15:13*	*1*
Dibromofluoromethane (Surr)	*116*		*70 - 130*		*10/09/23 15:13*	*1*
Toluene-d8 (Surr)	*117*		*70 - 130*		*10/09/23 15:13*	*1*

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28133-1
SDG: 670-28133-1

Client Sample ID: LC34-DPT0964-038.0-20231005
Date Collected: 10/05/23 12:35
Date Received: 10/06/23 08:00

Lab Sample ID: 670-28133-24
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/09/23 15:33	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/09/23 15:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/09/23 15:33	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/09/23 15:33	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/09/23 15:33	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/09/23 15:33	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/09/23 15:33	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/09/23 15:33	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/09/23 15:33	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 15:33	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/09/23 15:33	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/09/23 15:33	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 15:33	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 15:33	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			10/09/23 15:33	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/09/23 15:33	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/09/23 15:33	1
Acetone	3.7	U	10	3.7	ug/L			10/09/23 15:33	1
Benzene	0.27	U	1.0	0.27	ug/L			10/09/23 15:33	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/09/23 15:33	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/09/23 15:33	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/09/23 15:33	1
Carbon disulfide	**1.5**	**I**	2.0	0.43	ug/L			10/09/23 15:33	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/09/23 15:33	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/09/23 15:33	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/09/23 15:33	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/09/23 15:33	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/09/23 15:33	1
cis-1,2-Dichloroethene	**0.63**	**I**	1.0	0.25	ug/L			10/09/23 15:33	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/09/23 15:33	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/09/23 15:33	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/09/23 15:33	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/09/23 15:33	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/09/23 15:33	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/09/23 15:33	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/09/23 15:33	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/09/23 15:33	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/09/23 15:33	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/09/23 15:33	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/09/23 15:33	1
Styrene	0.27	U	1.0	0.27	ug/L			10/09/23 15:33	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/09/23 15:33	1
Toluene	0.25	U	1.0	0.25	ug/L			10/09/23 15:33	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/09/23 15:33	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/09/23 15:33	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/09/23 15:33	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/09/23 15:33	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/09/23 15:33	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/09/23 15:33	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28133-1
SDG: 670-28133-1

Client Sample ID: LC34-DPT0964-038.0-20231005
Date Collected: 10/05/23 12:35
Date Received: 10/06/23 08:00

Lab Sample ID: 670-28133-24
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		60 - 124		10/09/23 15:33	1
4-Bromofluorobenzene (Surr)	96		70 - 130		10/09/23 15:33	1
Dibromofluoromethane (Surr)	124		70 - 130		10/09/23 15:33	1
Toluene-d8 (Surr)	115		70 - 130		10/09/23 15:33	1

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28133-1
SDG: 670-28133-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(60-124)	(70-130)	(70-130)	(70-130)
670-28133-1	LC34-DPT0961-008.0-20231004	104	104	124	120
670-28133-2	LC34-DPT0961-013.0-2023100 4	106	98	121	116
670-28133-3	LC34-DPT0961-018.0-2023100 4	104	98	111	114
670-28133-3 - DL	LC34-DPT0961-018.0-2023100 4	110	101	115	116
670-28133-4	LC34-DPT0961-025.0-2023100 4	108	97	119	115
670-28133-5	LC34-DPT0961-034.0-2023100 4	107	98	108	115
670-28133-5 - DL	LC34-DPT0961-034.0-2023100 4	106	97	108	119
670-28133-6	LC34-DPT0961-038.0-2023100 4	102	98	107	112
670-28133-6 - DL	LC34-DPT0961-038.0-2023100 4	105	101	108	115
670-28133-7	LC34-DPT0962-008.0-2023100 4	107	99	125	115
670-28133-8	LC34-DPT0962-013.0-2023100 4	106	98	121	119
670-28133-9	LC34-DPT0962-018.0-2023100 4	105	97	117	116
670-28133-10	LC34-DPT0962-025.0-2023100 4	109	99	115	114
670-28133-11	LC34-DPT0962-034.0-2023100 5	110	96	124	116
670-28133-12	LC34-DPT0962-038.0-2023100 5	109	98	124	117
670-28133-13	LC34-DPT0963-008.0-2023100 5	109	97	121	116
670-28133-14	LC34-DPT0963-013.0-2023100 5	107	97	120	116
670-28133-15	LC34-DPT0963-018.0-2023100 5	103	97	118	114
670-28133-15 - DL	LC34-DPT0963-018.0-2023100 5	109	101	117	116
670-28133-16	LC34-DPT0963-025.0-2023100 5	109	101	120	117
670-28133-17	LC34-DPT0963-034.0-2023100 5	106	99	108	118
670-28133-18	LC34-DPT0963-038.0-2023100 5	105	99	106	114
670-28133-18 - DL	LC34-DPT0963-038.0-2023100 5	106	95	115	116
670-28133-19	LC34-DPT0964-008.0-2023100 5	108	100	122	119
670-28133-20	LC34-DPT0964-013.0-2023100 5	105	98	114	116
670-28133-21	LC34-DPT0964-018.0-2023100 5	102	95	109	115
670-28133-21 - DL	LC34-DPT0964-018.0-2023100 5	106	100	110	116
670-28133-22	LC34-DPT0964-025.0-2023100 5	107	99	108	116

Surrogate Summary

Client: Tetra Tech, Inc.
Job ID: 670-28133-1
Project/Site: NASA KSC LC34 DPT
SDG: 670-28133-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Matrix: Water
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(60-124)	(70-130)	(70-130)	(70-130)
670-28133-23	LC34-DPT0964-034.0-20231005	105	97	116	117
670-28133-24	LC34-DPT0964-038.0-20231005	107	96	124	115
680-241172-C-7 MS	Matrix Spike	97	111	96	116
680-241172-C-7 MSD	Matrix Spike Duplicate	97	113	94	115
LCS 680-801597/3	Lab Control Sample	106	109	106	120
LCS 680-801767/3	Lab Control Sample	105	111	102	119
LCS 680-801819/3	Lab Control Sample	103	110	101	114
LCSD 680-801597/4	Lab Control Sample Dup	109	113	113	118
LCSD 680-801767/4	Lab Control Sample Dup	109	111	108	115
LCSD 680-801819/4	Lab Control Sample Dup	104	109	100	114
MB 680-801597/7	Method Blank	106	100	123	117
MB 680-801767/7	Method Blank	108	100	124	117
MB 680-801819/7	Method Blank	108	101	125	116

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 680-801597/7
Matrix: Water
Analysis Batch: 801597

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/09/23 10:00	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/09/23 10:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/09/23 10:00	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/09/23 10:00	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/09/23 10:00	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/09/23 10:00	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/09/23 10:00	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/09/23 10:00	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/09/23 10:00	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 10:00	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/09/23 10:00	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/09/23 10:00	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 10:00	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 10:00	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/09/23 10:00	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/09/23 10:00	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/09/23 10:00	1
Acetone	3.7	U	10	3.7	ug/L			10/09/23 10:00	1
Benzene	0.27	U	1.0	0.27	ug/L			10/09/23 10:00	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/09/23 10:00	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/09/23 10:00	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/09/23 10:00	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/09/23 10:00	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/09/23 10:00	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/09/23 10:00	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/09/23 10:00	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/09/23 10:00	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/09/23 10:00	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/09/23 10:00	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/09/23 10:00	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/09/23 10:00	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/09/23 10:00	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/09/23 10:00	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/09/23 10:00	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/09/23 10:00	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/09/23 10:00	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/09/23 10:00	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/09/23 10:00	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/09/23 10:00	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/09/23 10:00	1
Styrene	0.27	U	1.0	0.27	ug/L			10/09/23 10:00	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/09/23 10:00	1
Toluene	0.25	U	1.0	0.25	ug/L			10/09/23 10:00	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/09/23 10:00	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/09/23 10:00	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/09/23 10:00	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/09/23 10:00	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/09/23 10:00	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-801597/7
Matrix: Water
Analysis Batch: 801597

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/09/23 10:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*60 - 124*		*10/09/23 10:00*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*10/09/23 10:00*	*1*
Dibromofluoromethane (Surr)	*123*		*70 - 130*		*10/09/23 10:00*	*1*
Toluene-d8 (Surr)	*117*		*70 - 130*		*10/09/23 10:00*	*1*

Lab Sample ID: LCS 680-801597/3
Matrix: Water
Analysis Batch: 801597

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	50.7		ug/L		101	70 - 130
1,1,2,2-Tetrachloroethane	50.0	47.4		ug/L		95	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	59.4		ug/L		119	63 - 141
1,1,2-Trichloroethane	50.0	47.8		ug/L		96	70 - 130
1,1-Dichloroethane	50.0	50.7		ug/L		101	70 - 130
1,1-Dichloroethene	50.0	57.1		ug/L		114	70 - 130
1,2,4-Trichlorobenzene	50.0	52.2		ug/L		104	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	46.3		ug/L		93	70 - 130
1,2-Dibromoethane (EDB)	50.0	50.9		ug/L		102	70 - 130
1,2-Dichlorobenzene	50.0	51.9		ug/L		104	70 - 130
1,2-Dichloroethane	50.0	49.0		ug/L		98	70 - 130
1,2-Dichloropropane	50.0	51.6		ug/L		103	70 - 130
1,3-Dichlorobenzene	50.0	50.3		ug/L		101	70 - 130
1,4-Dichlorobenzene	50.0	51.7		ug/L		103	70 - 130
2-Butanone (MEK)	250	276		ug/L		110	69 - 120
2-Hexanone	250	284		ug/L		114	70 - 130
4-Methyl-2-pentanone	250	244		ug/L		98	68 - 120
Acetone	250	262		ug/L		105	67 - 120
Benzene	50.0	50.2		ug/L		100	70 - 130
Bromodichloromethane	50.0	50.6		ug/L		101	70 - 130
Bromoform	50.0	51.0		ug/L		102	69 - 129
Bromomethane	50.0	36.8		ug/L		74	28 - 192
Carbon disulfide	50.0	50.1		ug/L		100	70 - 130
Carbon tetrachloride	50.0	52.3		ug/L		105	70 - 130
Chlorobenzene	50.0	52.4		ug/L		105	70 - 130
Chloroethane	50.0	50.0		ug/L		100	31 - 213
Chloroform	50.0	50.3		ug/L		101	70 - 130
Chloromethane	50.0	40.9		ug/L		82	59 - 127
cis-1,2-Dichloroethene	50.0	51.4		ug/L		103	70 - 130
cis-1,3-Dichloropropene	50.0	53.0		ug/L		106	70 - 130
Cyclohexane	50.0	52.0		ug/L		104	23 - 175
Dibromochloromethane	50.0	49.3		ug/L		99	70 - 130
Dichlorodifluoromethane	50.0	51.5		ug/L		103	70 - 130
Ethylbenzene	50.0	47.0		ug/L		94	70 - 130
Isopropylbenzene	50.0	48.0		ug/L		96	70 - 130

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-801597/3
Matrix: Water
Analysis Batch: 801597

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
m,p-Xylenes			50.0	54.4		ug/L		109	70 - 130		
Methyl acetate			100	91.1		ug/L		91	67 - 120		
Methyl tert-butyl ether			50.0	52.4		ug/L		105	70 - 130		
Methylene Chloride			50.0	47.9		ug/L		96	70 - 130		
o-Xylene			50.0	47.7		ug/L		95	70 - 130		
Styrene			50.0	57.8		ug/L		116	70 - 130		
Tetrachloroethene			50.0	52.3		ug/L		105	70 - 130		
Toluene			50.0	53.9		ug/L		108	70 - 130		
trans-1,2-Dichloroethene			50.0	53.5		ug/L		107	70 - 130		
trans-1,3-Dichloropropene			50.0	50.9		ug/L		102	70 - 130		
Trichloroethene			50.0	56.4		ug/L		113	70 - 130		
Trichlorofluoromethane			50.0	53.0		ug/L		106	63 - 142		
Vinyl chloride			50.0	50.0		ug/L		100	66 - 129		
Xylenes, Total			100	102		ug/L		102	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*60 - 124*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
Dibromofluoromethane (Surr)	*106*		*70 - 130*
Toluene-d8 (Surr)	*120*		*70 - 130*

Lab Sample ID: LCSD 680-801597/4
Matrix: Water
Analysis Batch: 801597

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane			50.0	50.8		ug/L		102	70 - 130	0	30
1,1,2,2-Tetrachloroethane			50.0	49.6		ug/L		99	70 - 130	5	30
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	58.7		ug/L		117	63 - 141	1	30
1,1,2-Trichloroethane			50.0	49.7		ug/L		99	70 - 130	4	30
1,1-Dichloroethane			50.0	50.9		ug/L		102	70 - 130	0	30
1,1-Dichloroethene			50.0	55.6		ug/L		111	70 - 130	3	20
1,2,4-Trichlorobenzene			50.0	52.7		ug/L		105	70 - 130	1	30
1,2-Dibromo-3-Chloropropane			50.0	49.7		ug/L		99	70 - 130	7	30
1,2-Dibromoethane (EDB)			50.0	53.5		ug/L		107	70 - 130	5	30
1,2-Dichlorobenzene			50.0	53.0		ug/L		106	70 - 130	2	30
1,2-Dichloroethane			50.0	50.8		ug/L		102	70 - 130	4	50
1,2-Dichloropropane			50.0	53.0		ug/L		106	70 - 130	3	20
1,3-Dichlorobenzene			50.0	51.3		ug/L		103	70 - 130	2	30
1,4-Dichlorobenzene			50.0	52.8		ug/L		106	70 - 130	2	30
2-Butanone (MEK)			250	308	J3	ug/L		123	69 - 120	11	30
2-Hexanone			250	306		ug/L		122	70 - 130	8	20
4-Methyl-2-pentanone			250	262		ug/L		105	68 - 120	7	30
Acetone			250	276		ug/L		110	67 - 120	5	30
Benzene			50.0	50.4		ug/L		101	70 - 130	0	30
Bromodichloromethane			50.0	52.6		ug/L		105	70 - 130	4	30
Bromoform			50.0	51.9		ug/L		104	69 - 129	2	30
Bromomethane			50.0	34.9		ug/L		70	28 - 192	5	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-801597/4
Matrix: Water
Analysis Batch: 801597

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon disulfide	50.0	48.7		ug/L		97	70 - 130	3	30
Carbon tetrachloride	50.0	51.1		ug/L		102	70 - 130	2	30
Chlorobenzene	50.0	52.3		ug/L		105	70 - 130	0	30
Chloroethane	50.0	49.6		ug/L		99	31 - 213	1	30
Chloroform	50.0	51.9		ug/L		104	70 - 130	3	30
Chloromethane	50.0	39.3		ug/L		79	59 - 127	4	30
cis-1,2-Dichloroethene	50.0	51.5		ug/L		103	70 - 130	0	30
cis-1,3-Dichloropropene	50.0	54.2		ug/L		108	70 - 130	2	20
Cyclohexane	50.0	51.6		ug/L		103	23 - 175	1	30
Dibromochloromethane	50.0	50.3		ug/L		101	70 - 130	2	30
Dichlorodifluoromethane	50.0	47.0		ug/L		94	70 - 130	9	40
Ethylbenzene	50.0	47.0		ug/L		94	70 - 130	0	20
Isopropylbenzene	50.0	47.9		ug/L		96	70 - 130	0	30
m,p-Xylenes	50.0	54.8		ug/L		110	70 - 130	1	30
Methyl acetate	100	101		ug/L		101	67 - 120	10	30
Methyl tert-butyl ether	50.0	56.9		ug/L		114	70 - 130	8	30
Methylene Chloride	50.0	50.2		ug/L		100	70 - 130	5	30
o-Xylene	50.0	48.2		ug/L		96	70 - 130	1	30
Styrene	50.0	58.7		ug/L		117	70 - 130	2	30
Tetrachloroethene	50.0	52.3		ug/L		105	70 - 130	0	30
Toluene	50.0	54.6		ug/L		109	70 - 130	1	30
trans-1,2-Dichloroethene	50.0	53.1		ug/L		106	70 - 130	1	30
trans-1,3-Dichloropropene	50.0	53.1		ug/L		106	70 - 130	4	30
Trichloroethene	50.0	55.7		ug/L		111	70 - 130	1	30
Trichlorofluoromethane	50.0	50.4		ug/L		101	63 - 142	5	30
Vinyl chloride	50.0	48.1		ug/L		96	66 - 129	4	30
Xylenes, Total	100	103		ug/L		103	70 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*109*		*60 - 124*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*
Dibromofluoromethane (Surr)	*113*		*70 - 130*
Toluene-d8 (Surr)	*118*		*70 - 130*

Lab Sample ID: MB 680-801767/7
Matrix: Water
Analysis Batch: 801767

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/09/23 20:12	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/09/23 20:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/09/23 20:12	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/09/23 20:12	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/09/23 20:12	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/09/23 20:12	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/09/23 20:12	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/09/23 20:12	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/09/23 20:12	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-801767/7
Matrix: Water
Analysis Batch: 801767

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 20:12	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/09/23 20:12	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/09/23 20:12	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 20:12	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/09/23 20:12	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/09/23 20:12	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/09/23 20:12	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/09/23 20:12	1
Acetone	3.7	U	10	3.7	ug/L			10/09/23 20:12	1
Benzene	0.27	U	1.0	0.27	ug/L			10/09/23 20:12	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/09/23 20:12	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/09/23 20:12	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/09/23 20:12	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/09/23 20:12	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/09/23 20:12	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/09/23 20:12	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/09/23 20:12	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/09/23 20:12	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/09/23 20:12	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/09/23 20:12	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/09/23 20:12	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/09/23 20:12	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/09/23 20:12	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/09/23 20:12	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/09/23 20:12	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/09/23 20:12	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/09/23 20:12	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/09/23 20:12	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/09/23 20:12	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/09/23 20:12	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/09/23 20:12	1
Styrene	0.27	U	1.0	0.27	ug/L			10/09/23 20:12	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/09/23 20:12	1
Toluene	0.25	U	1.0	0.25	ug/L			10/09/23 20:12	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/09/23 20:12	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/09/23 20:12	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/09/23 20:12	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/09/23 20:12	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/09/23 20:12	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/09/23 20:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*60 - 124*		*10/09/23 20:12*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*10/09/23 20:12*	*1*
Dibromofluoromethane (Surr)	*124*		*70 - 130*		*10/09/23 20:12*	*1*
Toluene-d8 (Surr)	*117*		*70 - 130*		*10/09/23 20:12*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-801767/3
Matrix: Water
Analysis Batch: 801767

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	48.3		ug/L		97	70 - 130
1,1,2,2-Tetrachloroethane	50.0	48.8		ug/L		98	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	59.1		ug/L		118	63 - 141
1,1,2-Trichloroethane	50.0	47.1		ug/L		94	70 - 130
1,1-Dichloroethane	50.0	49.0		ug/L		98	70 - 130
1,1-Dichloroethene	50.0	55.3		ug/L		111	70 - 130
1,2,4-Trichlorobenzene	50.0	51.8		ug/L		104	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	47.9		ug/L		96	70 - 130
1,2-Dibromoethane (EDB)	50.0	51.0		ug/L		102	70 - 130
1,2-Dichlorobenzene	50.0	52.0		ug/L		104	70 - 130
1,2-Dichloroethane	50.0	47.4		ug/L		95	70 - 130
1,2-Dichloropropane	50.0	50.3		ug/L		101	70 - 130
1,3-Dichlorobenzene	50.0	51.1		ug/L		102	70 - 130
1,4-Dichlorobenzene	50.0	52.0		ug/L		104	70 - 130
2-Butanone (MEK)	250	277		ug/L		111	69 - 120
2-Hexanone	250	284		ug/L		114	70 - 130
4-Methyl-2-pentanone	250	245		ug/L		98	68 - 120
Acetone	250	241		ug/L		96	67 - 120
Benzene	50.0	50.1		ug/L		100	70 - 130
Bromodichloromethane	50.0	48.8		ug/L		98	70 - 130
Bromoform	50.0	48.7		ug/L		97	69 - 129
Bromomethane	50.0	39.2		ug/L		78	28 - 192
Carbon disulfide	50.0	48.3		ug/L		97	70 - 130
Carbon tetrachloride	50.0	50.6		ug/L		101	70 - 130
Chlorobenzene	50.0	52.0		ug/L		104	70 - 130
Chloroethane	50.0	50.3		ug/L		101	31 - 213
Chloroform	50.0	49.0		ug/L		98	70 - 130
Chloromethane	50.0	42.6		ug/L		85	59 - 127
cis-1,2-Dichloroethene	50.0	49.2		ug/L		98	70 - 130
cis-1,3-Dichloropropene	50.0	52.0		ug/L		104	70 - 130
Cyclohexane	50.0	51.4		ug/L		103	23 - 175
Dibromochloromethane	50.0	46.9		ug/L		94	70 - 130
Dichlorodifluoromethane	50.0	51.4		ug/L		103	70 - 130
Ethylbenzene	50.0	46.5		ug/L		93	70 - 130
Isopropylbenzene	50.0	47.0		ug/L		94	70 - 130
m,p-Xylenes	50.0	52.8		ug/L		106	70 - 130
Methyl acetate	100	90.5		ug/L		91	67 - 120
Methyl tert-butyl ether	50.0	54.8		ug/L		110	70 - 130
Methylene Chloride	50.0	47.6		ug/L		95	70 - 130
o-Xylene	50.0	46.3		ug/L		93	70 - 130
Styrene	50.0	56.1		ug/L		112	70 - 130
Tetrachloroethene	50.0	50.7		ug/L		101	70 - 130
Toluene	50.0	52.7		ug/L		105	70 - 130
trans-1,2-Dichloroethene	50.0	49.6		ug/L		99	70 - 130
trans-1,3-Dichloropropene	50.0	50.4		ug/L		101	70 - 130
Trichloroethene	50.0	54.5		ug/L		109	70 - 130
Trichlorofluoromethane	50.0	46.4		ug/L		93	63 - 142
Vinyl chloride	50.0	51.3		ug/L		103	66 - 129

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-801767/3
Matrix: Water
Analysis Batch: 801767

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Xylenes, Total			100	99.1		ug/L		99	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 124*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*
Dibromofluoromethane (Surr)	*102*		*70 - 130*
Toluene-d8 (Surr)	*119*		*70 - 130*

Lab Sample ID: LCSD 680-801767/4
Matrix: Water
Analysis Batch: 801767

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane			50.0	49.5		ug/L		99	70 - 130	2	30
1,1,2,2-Tetrachloroethane			50.0	51.2		ug/L		102	70 - 130	5	30
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	57.5		ug/L		115	63 - 141	3	30
1,1,2-Trichloroethane			50.0	50.3		ug/L		101	70 - 130	6	30
1,1-Dichloroethane			50.0	49.6		ug/L		99	70 - 130	1	30
1,1-Dichloroethene			50.0	55.6		ug/L		111	70 - 130	1	20
1,2,4-Trichlorobenzene			50.0	53.2		ug/L		106	70 - 130	3	30
1,2-Dibromo-3-Chloropropane			50.0	51.6		ug/L		103	70 - 130	7	30
1,2-Dibromoethane (EDB)			50.0	54.0		ug/L		108	70 - 130	6	30
1,2-Dichlorobenzene			50.0	52.7		ug/L		105	70 - 130	1	30
1,2-Dichloroethane			50.0	49.7		ug/L		99	70 - 130	5	50
1,2-Dichloropropane			50.0	51.5		ug/L		103	70 - 130	2	20
1,3-Dichlorobenzene			50.0	51.1		ug/L		102	70 - 130	0	30
1,4-Dichlorobenzene			50.0	51.0		ug/L		102	70 - 130	2	30
2-Butanone (MEK)			250	313	J3	ug/L		125	69 - 120	12	30
2-Hexanone			250	317		ug/L		127	70 - 130	11	20
4-Methyl-2-pentanone			250	269		ug/L		108	68 - 120	9	30
Acetone			250	276		ug/L		111	67 - 120	14	30
Benzene			50.0	50.2		ug/L		100	70 - 130	0	30
Bromodichloromethane			50.0	51.1		ug/L		102	70 - 130	5	30
Bromoform			50.0	51.4		ug/L		103	69 - 129	5	30
Bromomethane			50.0	45.4		ug/L		91	28 - 192	14	30
Carbon disulfide			50.0	47.5		ug/L		95	70 - 130	2	30
Carbon tetrachloride			50.0	49.4		ug/L		99	70 - 130	2	30
Chlorobenzene			50.0	51.6		ug/L		103	70 - 130	1	30
Chloroethane			50.0	48.2		ug/L		96	31 - 213	4	30
Chloroform			50.0	49.8		ug/L		100	70 - 130	2	30
Chloromethane			50.0	40.8		ug/L		82	59 - 127	4	30
cis-1,2-Dichloroethene			50.0	50.6		ug/L		101	70 - 130	3	30
cis-1,3-Dichloropropene			50.0	53.6		ug/L		107	70 - 130	3	20
Cyclohexane			50.0	49.7		ug/L		99	23 - 175	3	30
Dibromochloromethane			50.0	49.7		ug/L		99	70 - 130	6	30
Dichlorodifluoromethane			50.0	48.4		ug/L		97	70 - 130	6	40
Ethylbenzene			50.0	45.8		ug/L		92	70 - 130	2	20
Isopropylbenzene			50.0	45.9		ug/L		92	70 - 130	2	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-801767/4
Matrix: Water
Analysis Batch: 801767

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m,p-Xylenes			50.0	52.5		ug/L		105	70 - 130	0	30
Methyl acetate			100	99.5		ug/L		99	67 - 120	9	30
Methyl tert-butyl ether			50.0	57.6		ug/L		115	70 - 130	5	30
Methylene Chloride			50.0	48.8		ug/L		98	70 - 130	2	30
o-Xylene			50.0	46.2		ug/L		92	70 - 130	0	30
Styrene			50.0	56.2		ug/L		112	70 - 130	0	30
Tetrachloroethene			50.0	51.0		ug/L		102	70 - 130	0	30
Toluene			50.0	53.6		ug/L		107	70 - 130	2	30
trans-1,2-Dichloroethene			50.0	49.7		ug/L		99	70 - 130	0	30
trans-1,3-Dichloropropene			50.0	52.3		ug/L		105	70 - 130	4	30
Trichloroethene			50.0	55.4		ug/L		111	70 - 130	2	30
Trichlorofluoromethane			50.0	44.4		ug/L		89	63 - 142	4	30
Vinyl chloride			50.0	49.0		ug/L		98	66 - 129	5	30
Xylenes, Total			100	98.7		ug/L		99	70 - 130	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*109*		*60 - 124*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*
Dibromofluoromethane (Surr)	*108*		*70 - 130*
Toluene-d8 (Surr)	*115*		*70 - 130*

Lab Sample ID: MB 680-801819/7
Matrix: Water
Analysis Batch: 801819

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/10/23 12:39	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/10/23 12:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/10/23 12:39	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/10/23 12:39	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/10/23 12:39	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/10/23 12:39	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/10/23 12:39	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/10/23 12:39	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/10/23 12:39	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/10/23 12:39	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/10/23 12:39	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/10/23 12:39	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/10/23 12:39	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/10/23 12:39	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/10/23 12:39	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/10/23 12:39	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/10/23 12:39	1
Acetone	3.7	U	10	3.7	ug/L			10/10/23 12:39	1
Benzene	0.27	U	1.0	0.27	ug/L			10/10/23 12:39	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/10/23 12:39	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/10/23 12:39	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/10/23 12:39	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-801819/7
Matrix: Water
Analysis Batch: 801819

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/10/23 12:39	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/10/23 12:39	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/10/23 12:39	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/10/23 12:39	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/10/23 12:39	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/10/23 12:39	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/10/23 12:39	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/10/23 12:39	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/10/23 12:39	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/10/23 12:39	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/10/23 12:39	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/10/23 12:39	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/10/23 12:39	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/10/23 12:39	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/10/23 12:39	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/10/23 12:39	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/10/23 12:39	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/10/23 12:39	1
Styrene	0.27	U	1.0	0.27	ug/L			10/10/23 12:39	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/10/23 12:39	1
Toluene	0.25	U	1.0	0.25	ug/L			10/10/23 12:39	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/10/23 12:39	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/10/23 12:39	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/10/23 12:39	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/10/23 12:39	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/10/23 12:39	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/10/23 12:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*60 - 124*		*10/10/23 12:39*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/10/23 12:39*	*1*
Dibromofluoromethane (Surr)	*125*		*70 - 130*		*10/10/23 12:39*	*1*
Toluene-d8 (Surr)	*116*		*70 - 130*		*10/10/23 12:39*	*1*

Lab Sample ID: LCS 680-801819/3
Matrix: Water
Analysis Batch: 801819

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	48.3		ug/L		97	70 - 130
1,1,2,2-Tetrachloroethane	50.0	47.3		ug/L		95	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	56.3		ug/L		113	63 - 141
1,1,2-Trichloroethane	50.0	46.7		ug/L		93	70 - 130
1,1-Dichloroethane	50.0	47.7		ug/L		95	70 - 130
1,1-Dichloroethene	50.0	53.1		ug/L		106	70 - 130
1,2,4-Trichlorobenzene	50.0	52.5		ug/L		105	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	48.9		ug/L		98	70 - 130
1,2-Dibromoethane (EDB)	50.0	49.7		ug/L		99	70 - 130

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-801819/3
Matrix: Water
Analysis Batch: 801819

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichlorobenzene	50.0	51.4		ug/L		103	70 - 130
1,2-Dichloroethane	50.0	47.6		ug/L		95	70 - 130
1,2-Dichloropropane	50.0	50.2		ug/L		100	70 - 130
1,3-Dichlorobenzene	50.0	50.0		ug/L		100	70 - 130
1,4-Dichlorobenzene	50.0	50.4		ug/L		101	70 - 130
2-Butanone (MEK)	250	264		ug/L		106	69 - 120
2-Hexanone	250	272		ug/L		109	70 - 130
4-Methyl-2-pentanone	250	233		ug/L		93	68 - 120
Acetone	250	255		ug/L		102	67 - 120
Benzene	50.0	48.3		ug/L		97	70 - 130
Bromodichloromethane	50.0	48.3		ug/L		97	70 - 130
Bromoform	50.0	47.9		ug/L		96	69 - 129
Bromomethane	50.0	41.5		ug/L		83	28 - 192
Carbon disulfide	50.0	48.3		ug/L		97	70 - 130
Carbon tetrachloride	50.0	49.4		ug/L		99	70 - 130
Chlorobenzene	50.0	49.8		ug/L		100	70 - 130
Chloroethane	50.0	52.3		ug/L		105	31 - 213
Chloroform	50.0	49.5		ug/L		99	70 - 130
Chloromethane	50.0	41.4		ug/L		83	59 - 127
cis-1,2-Dichloroethene	50.0	48.9		ug/L		98	70 - 130
cis-1,3-Dichloropropene	50.0	51.6		ug/L		103	70 - 130
Cyclohexane	50.0	50.6		ug/L		101	23 - 175
Dibromochloromethane	50.0	46.7		ug/L		93	70 - 130
Dichlorodifluoromethane	50.0	50.8		ug/L		102	70 - 130
Ethylbenzene	50.0	44.3		ug/L		89	70 - 130
Isopropylbenzene	50.0	45.2		ug/L		90	70 - 130
m,p-Xylenes	50.0	51.6		ug/L		103	70 - 130
Methyl acetate	100	86.7		ug/L		87	67 - 120
Methyl tert-butyl ether	50.0	54.4		ug/L		109	70 - 130
Methylene Chloride	50.0	47.7		ug/L		95	70 - 130
o-Xylene	50.0	45.3		ug/L		91	70 - 130
Styrene	50.0	54.4		ug/L		109	70 - 130
Tetrachloroethene	50.0	48.6		ug/L		97	70 - 130
Toluene	50.0	51.5		ug/L		103	70 - 130
trans-1,2-Dichloroethene	50.0	50.5		ug/L		101	70 - 130
trans-1,3-Dichloropropene	50.0	49.3		ug/L		99	70 - 130
Trichloroethene	50.0	54.1		ug/L		108	70 - 130
Trichlorofluoromethane	50.0	69.7		ug/L		139	63 - 142
Vinyl chloride	50.0	48.4		ug/L		97	66 - 129
Xylenes, Total	100	96.9		ug/L		97	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 124*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*114*		*70 - 130*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-801819/4
Matrix: Water
Analysis Batch: 801819

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane			50.0	47.4		ug/L		95	70 - 130	2	30
1,1,2,2-Tetrachloroethane			50.0	48.5		ug/L		97	70 - 130	3	30
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	55.5		ug/L		111	63 - 141	1	30
1,1,2-Trichloroethane			50.0	47.9		ug/L		96	70 - 130	3	30
1,1-Dichloroethane			50.0	47.9		ug/L		96	70 - 130	1	30
1,1-Dichloroethene			50.0	54.2		ug/L		108	70 - 130	2	20
1,2,4-Trichlorobenzene			50.0	51.7		ug/L		103	70 - 130	2	30
1,2-Dibromo-3-Chloropropane			50.0	49.6		ug/L		99	70 - 130	1	30
1,2-Dibromoethane (EDB)			50.0	51.1		ug/L		102	70 - 130	3	30
1,2-Dichlorobenzene			50.0	51.4		ug/L		103	70 - 130	0	30
1,2-Dichloroethane			50.0	47.8		ug/L		96	70 - 130	0	50
1,2-Dichloropropane			50.0	50.1		ug/L		100	70 - 130	0	20
1,3-Dichlorobenzene			50.0	50.5		ug/L		101	70 - 130	1	30
1,4-Dichlorobenzene			50.0	50.6		ug/L		101	70 - 130	0	30
2-Butanone (MEK)			250	278		ug/L		111	69 - 120	5	30
2-Hexanone			250	284		ug/L		114	70 - 130	4	20
4-Methyl-2-pentanone			250	243		ug/L		97	68 - 120	4	30
Acetone			250	266		ug/L		106	67 - 120	4	30
Benzene			50.0	48.3		ug/L		97	70 - 130	0	30
Bromodichloromethane			50.0	48.8		ug/L		98	70 - 130	1	30
Bromoform			50.0	49.4		ug/L		99	69 - 129	3	30
Bromomethane			50.0	41.6		ug/L		83	28 - 192	0	30
Carbon disulfide			50.0	46.8		ug/L		94	70 - 130	3	30
Carbon tetrachloride			50.0	49.0		ug/L		98	70 - 130	1	30
Chlorobenzene			50.0	49.7		ug/L		99	70 - 130	0	30
Chloroethane			50.0	49.7		ug/L		99	31 - 213	5	30
Chloroform			50.0	49.6		ug/L		99	70 - 130	0	30
Chloromethane			50.0	40.9		ug/L		82	59 - 127	1	30
cis-1,2-Dichloroethene			50.0	48.5		ug/L		97	70 - 130	1	30
cis-1,3-Dichloropropene			50.0	51.7		ug/L		103	70 - 130	0	20
Cyclohexane			50.0	47.9		ug/L		96	23 - 175	5	30
Dibromochloromethane			50.0	48.1		ug/L		96	70 - 130	3	30
Dichlorodifluoromethane			50.0	50.5		ug/L		101	70 - 130	1	40
Ethylbenzene			50.0	44.1		ug/L		88	70 - 130	0	20
Isopropylbenzene			50.0	44.9		ug/L		90	70 - 130	1	30
m,p-Xylenes			50.0	51.6		ug/L		103	70 - 130	0	30
Methyl acetate			100	89.8		ug/L		90	67 - 120	3	30
Methyl tert-butyl ether			50.0	55.7		ug/L		111	70 - 130	2	30
Methylene Chloride			50.0	46.4		ug/L		93	70 - 130	3	30
o-Xylene			50.0	45.1		ug/L		90	70 - 130	1	30
Styrene			50.0	54.3		ug/L		109	70 - 130	0	30
Tetrachloroethene			50.0	49.2		ug/L		98	70 - 130	1	30
Toluene			50.0	51.5		ug/L		103	70 - 130	0	30
trans-1,2-Dichloroethene			50.0	46.8		ug/L		94	70 - 130	8	30
trans-1,3-Dichloropropene			50.0	50.3		ug/L		101	70 - 130	2	30
Trichloroethene			50.0	53.3		ug/L		107	70 - 130	1	30
Trichlorofluoromethane			50.0	68.9		ug/L		138	63 - 142	1	30
Vinyl chloride			50.0	46.9		ug/L		94	66 - 129	3	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-801819/4
Matrix: Water
Analysis Batch: 801819

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Xylenes, Total			100	96.7		ug/L		97	70 - 130	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 124*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
Dibromofluoromethane (Surr)	*100*		*70 - 130*
Toluene-d8 (Surr)	*114*		*70 - 130*

Lab Sample ID: 680-241172-C-7 MS
Matrix: Water
Analysis Batch: 801819

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	4.2	U J3	1000	958		ug/L		96	70 - 130
1,1,2,2-Tetrachloroethane	8.0	U J3	1000	950		ug/L		95	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	4.6	U	1000	1200		ug/L		120	63 - 141
1,1,2-Trichloroethane	6.4	U J3	1000	900		ug/L		90	70 - 130
1,1-Dichloroethane	6.6	U J3	1000	930		ug/L		93	70 - 130
1,1-Dichloroethene	6.6	U J3	1000	1100		ug/L		110	70 - 130
1,2,4-Trichlorobenzene	11	U J3	1000	1030		ug/L		103	70 - 130
1,2-Dibromo-3-Chloropropane	36	U J3	1000	951		ug/L		95	70 - 130
1,2-Dibromoethane (EDB)	6.6	U J3	1000	933		ug/L		93	70 - 130
1,2-Dichlorobenzene	6.2	U J3	1000	1000		ug/L		100	70 - 130
1,2-Dichloroethane	5.0	U	1000	889		ug/L		89	70 - 130
1,2-Dichloropropane	4.4	U J3	1000	961		ug/L		96	70 - 130
1,3-Dichlorobenzene	6.2	U J3	1000	990		ug/L		99	70 - 130
1,4-Dichlorobenzene	6.2	U J3	1000	979		ug/L		98	70 - 130
2-Butanone (MEK)	130	U J3	5000	4350		ug/L		87	69 - 120
2-Hexanone	64	U J3	5000	4900		ug/L		98	70 - 130
4-Methyl-2-pentanone	54	U J3	5000	4370		ug/L		87	68 - 120
Acetone	74	U J3	5000	4250		ug/L		85	67 - 120
Benzene	5.4	U J3	1000	957		ug/L		96	70 - 130
Bromodichloromethane	5.0	U J3	1000	946		ug/L		95	70 - 130
Bromoform	12	U J3	1000	938		ug/L		94	69 - 129
Bromomethane	74	U J3	1000	687		ug/L		69	28 - 192
Carbon disulfide	8.6	U J3	1000	958		ug/L		96	70 - 130
Carbon tetrachloride	6.0	U J3	1000	1020		ug/L		102	70 - 130
Chlorobenzene	3.0	U J3	1000	976		ug/L		98	70 - 130
Chloroethane	92	U J3	1000	2010		ug/L		201	31 - 213
Chloroform	5.4	U J3	1000	926		ug/L		93	70 - 130
Chloromethane	11	U J3	1000	801		ug/L		80	59 - 127
cis-1,2-Dichloroethene	5.0	U J3	1000	943		ug/L		94	70 - 130
cis-1,3-Dichloropropene	5.2	U J3	1000	981		ug/L		98	70 - 130
Cyclohexane	5.6	U J3	1000	1030		ug/L		103	23 - 175
Dibromochloromethane	7.8	U J3	1000	911		ug/L		91	70 - 130
Dichlorodifluoromethane	7.2	U J3	1000	1060		ug/L		106	70 - 130
Ethylbenzene	45	J3	1000	922		ug/L		88	70 - 130
Isopropylbenzene	10	I J3	1000	903		ug/L		89	70 - 130

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 680-241172-C-7 MS
Matrix: Water
Analysis Batch: 801819

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
m,p-Xylenes	110	J3	1000	1140		ug/L		103	70 - 130
Methyl acetate	64	U J3	2000	1640		ug/L		82	67 - 120
Methyl tert-butyl ether	16	U J3	1000	1100		ug/L		110	70 - 130
Methylene Chloride	64	U J3	1000	899		ug/L		90	70 - 130
o-Xylene	41	J3	1000	926		ug/L		89	70 - 130
Styrene	5.4	U J3	1000	1050		ug/L		105	70 - 130
Tetrachloroethene	7.0	U J3	1000	993		ug/L		99	70 - 130
Toluene	9.7	I J3	1000	1020		ug/L		101	70 - 130
trans-1,2-Dichloroethene	6.8	U J3	1000	1000		ug/L		100	70 - 130
trans-1,3-Dichloropropene	4.6	U J3	1000	928		ug/L		93	70 - 130
Trichloroethene	4.0	U J3	1000	1080		ug/L		108	70 - 130
Trichlorofluoromethane	6.6	U J3	1000	1590	J3	ug/L		159	63 - 142
Vinyl chloride	8.0	U J3	1000	935		ug/L		94	66 - 129
Xylenes, Total	150	J3	2000	2070		ug/L		96	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 124*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*
Dibromofluoromethane (Surr)	*96*		*70 - 130*
Toluene-d8 (Surr)	*116*		*70 - 130*

Lab Sample ID: 680-241172-C-7 MSD
Matrix: Water
Analysis Batch: 801819

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	4.2	U J3	1000	963		ug/L		96	70 - 130	1	30
1,1,2,2-Tetrachloroethane	8.0	U J3	1000	993		ug/L		99	70 - 130	4	30
1,1,2-Trichloro-1,2,2-trifluoroethane	4.6	U	1000	1210		ug/L		121	63 - 141	0	30
1,1,2-Trichloroethane	6.4	U J3	1000	930		ug/L		93	70 - 130	3	30
1,1-Dichloroethane	6.6	U J3	1000	922		ug/L		92	70 - 130	1	30
1,1-Dichloroethene	6.6	U J3	1000	1060		ug/L		106	70 - 130	3	20
1,2,4-Trichlorobenzene	11	U J3	1000	1030		ug/L		103	70 - 130	1	30
1,2-Dibromo-3-Chloropropane	36	U J3	1000	1010		ug/L		101	70 - 130	6	30
1,2-Dibromoethane (EDB)	6.6	U J3	1000	973		ug/L		97	70 - 130	4	30
1,2-Dichlorobenzene	6.2	U J3	1000	1030		ug/L		103	70 - 130	3	30
1,2-Dichloroethane	5.0	U	1000	916		ug/L		92	70 - 130	3	50
1,2-Dichloropropane	4.4	U J3	1000	963		ug/L		96	70 - 130	0	20
1,3-Dichlorobenzene	6.2	U J3	1000	1020		ug/L		102	70 - 130	3	30
1,4-Dichlorobenzene	6.2	U J3	1000	1000		ug/L		100	70 - 130	3	30
2-Butanone (MEK)	130	U J3	5000	4590		ug/L		92	69 - 120	5	30
2-Hexanone	64	U J3	5000	5180		ug/L		104	70 - 130	6	20
4-Methyl-2-pentanone	54	U J3	5000	4590		ug/L		92	68 - 120	5	30
Acetone	74	U J3	5000	4500		ug/L		90	67 - 120	6	30
Benzene	5.4	U J3	1000	961		ug/L		96	70 - 130	0	30
Bromodichloromethane	5.0	U J3	1000	955		ug/L		95	70 - 130	1	30
Bromoform	12	U J3	1000	969		ug/L		97	69 - 129	3	30
Bromomethane	74	U J3	1000	755		ug/L		75	28 - 192	9	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 680-241172-C-7 MSD
Matrix: Water
Analysis Batch: 801819

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon disulfide	8.6	U J3	1000	944		ug/L		94	70 - 130	1	30
Carbon tetrachloride	6.0	U J3	1000	1010		ug/L		101	70 - 130	1	30
Chlorobenzene	3.0	U J3	1000	991		ug/L		99	70 - 130	2	30
Chloroethane	92	U J3	1000	1850		ug/L		185	31 - 213	8	30
Chloroform	5.4	U J3	1000	925		ug/L		92	70 - 130	0	30
Chloromethane	11	U J3	1000	758		ug/L		76	59 - 127	6	30
cis-1,2-Dichloroethene	5.0	U J3	1000	942		ug/L		94	70 - 130	0	30
cis-1,3-Dichloropropene	5.2	U J3	1000	993		ug/L		99	70 - 130	1	20
Cyclohexane	5.6	U J3	1000	1020		ug/L		102	23 - 175	0	30
Dibromochloromethane	7.8	U J3	1000	924		ug/L		92	70 - 130	1	30
Dichlorodifluoromethane	7.2	U J3	1000	991		ug/L		99	70 - 130	6	40
Ethylbenzene	45	J3	1000	934		ug/L		89	70 - 130	1	20
Isopropylbenzene	10	I J3	1000	915		ug/L		90	70 - 130	1	30
m,p-Xylenes	110	J3	1000	1150		ug/L		104	70 - 130	1	30
Methyl acetate	64	U J3	2000	1620		ug/L		81	67 - 120	1	30
Methyl tert-butyl ether	16	U J3	1000	1130		ug/L		113	70 - 130	3	30
Methylene Chloride	64	U J3	1000	891		ug/L		89	70 - 130	1	30
o-Xylene	41	J3	1000	938		ug/L		90	70 - 130	1	30
Styrene	5.4	U J3	1000	1070		ug/L		107	70 - 130	1	30
Tetrachloroethene	7.0	U J3	1000	983		ug/L		98	70 - 130	1	30
Toluene	9.7	I J3	1000	1020		ug/L		101	70 - 130	0	30
trans-1,2-Dichloroethene	6.8	U J3	1000	974		ug/L		97	70 - 130	3	30
trans-1,3-Dichloropropene	4.6	U J3	1000	948		ug/L		95	70 - 130	2	30
Trichloroethene	4.0	U J3	1000	1080		ug/L		108	70 - 130	0	30
Trichlorofluoromethane	6.6	U J3	1000	1580	J3	ug/L		158	63 - 142	1	30
Vinyl chloride	8.0	U J3	1000	895		ug/L		90	66 - 129	4	30
Xylenes, Total	150	J3	2000	2090		ug/L		97	70 - 130	1	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 124*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*
Dibromofluoromethane (Surr)	*94*		*70 - 130*
Toluene-d8 (Surr)	*115*		*70 - 130*

GC/MS VOA

Analysis Batch: 801597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-28133-1	LC34-DPT0961-008.0-20231004	Total/NA	Water	8260D	
670-28133-2	LC34-DPT0961-013.0-20231004	Total/NA	Water	8260D	
670-28133-3	LC34-DPT0961-018.0-20231004	Total/NA	Water	8260D	
670-28133-4	LC34-DPT0961-025.0-20231004	Total/NA	Water	8260D	
670-28133-5	LC34-DPT0961-034.0-20231004	Total/NA	Water	8260D	
670-28133-6	LC34-DPT0961-038.0-20231004	Total/NA	Water	8260D	
670-28133-7	LC34-DPT0962-008.0-20231004	Total/NA	Water	8260D	
670-28133-8	LC34-DPT0962-013.0-20231004	Total/NA	Water	8260D	
670-28133-9	LC34-DPT0962-018.0-20231004	Total/NA	Water	8260D	
670-28133-10	LC34-DPT0962-025.0-20231004	Total/NA	Water	8260D	
670-28133-11	LC34-DPT0962-034.0-20231005	Total/NA	Water	8260D	
670-28133-12	LC34-DPT0962-038.0-20231005	Total/NA	Water	8260D	
670-28133-13	LC34-DPT0963-008.0-20231005	Total/NA	Water	8260D	
670-28133-14	LC34-DPT0963-013.0-20231005	Total/NA	Water	8260D	
670-28133-15	LC34-DPT0963-018.0-20231005	Total/NA	Water	8260D	
670-28133-19	LC34-DPT0964-008.0-20231005	Total/NA	Water	8260D	
670-28133-20	LC34-DPT0964-013.0-20231005	Total/NA	Water	8260D	
670-28133-21	LC34-DPT0964-018.0-20231005	Total/NA	Water	8260D	
670-28133-23	LC34-DPT0964-034.0-20231005	Total/NA	Water	8260D	
670-28133-24	LC34-DPT0964-038.0-20231005	Total/NA	Water	8260D	
MB 680-801597/7	Method Blank	Total/NA	Water	8260D	
LCS 680-801597/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-801597/4	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 801767

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-28133-3 - DL	LC34-DPT0961-018.0-20231004	Total/NA	Water	8260D	
670-28133-5 - DL	LC34-DPT0961-034.0-20231004	Total/NA	Water	8260D	
670-28133-6 - DL	LC34-DPT0961-038.0-20231004	Total/NA	Water	8260D	
670-28133-15 - DL	LC34-DPT0963-018.0-20231005	Total/NA	Water	8260D	
670-28133-16	LC34-DPT0963-025.0-20231005	Total/NA	Water	8260D	
670-28133-17	LC34-DPT0963-034.0-20231005	Total/NA	Water	8260D	
670-28133-18	LC34-DPT0963-038.0-20231005	Total/NA	Water	8260D	
670-28133-21 - DL	LC34-DPT0964-018.0-20231005	Total/NA	Water	8260D	
670-28133-22	LC34-DPT0964-025.0-20231005	Total/NA	Water	8260D	
MB 680-801767/7	Method Blank	Total/NA	Water	8260D	
LCS 680-801767/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-801767/4	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 801819

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-28133-18 - DL	LC34-DPT0963-038.0-20231005	Total/NA	Water	8260D	
MB 680-801819/7	Method Blank	Total/NA	Water	8260D	
LCS 680-801819/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-801819/4	Lab Control Sample Dup	Total/NA	Water	8260D	
680-241172-C-7 MS	Matrix Spike	Total/NA	Water	8260D	
680-241172-C-7 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Client Sample ID: LC34-DPT0961-008.0-20231004 — Lab Sample ID: 670-28133-1

Date Collected: 10/04/23 14:00 — **Matrix: Water**
Date Received: 10/06/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	801597	Y1S	EET SAV	10/09/23 10:53

Client Sample ID: LC34-DPT0961-013.0-20231004 — Lab Sample ID: 670-28133-2

Date Collected: 10/04/23 14:15 — **Matrix: Water**
Date Received: 10/06/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	801597	Y1S	EET SAV	10/09/23 11:13

Client Sample ID: LC34-DPT0961-018.0-20231004 — Lab Sample ID: 670-28133-3

Date Collected: 10/04/23 14:30 — **Matrix: Water**
Date Received: 10/06/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	801597	Y1S	EET SAV	10/09/23 11:33
Total/NA	Analysis	8260D	DL	5	801767	Y1S	EET SAV	10/09/23 23:09

Client Sample ID: LC34-DPT0961-025.0-20231004 — Lab Sample ID: 670-28133-4

Date Collected: 10/04/23 14:50 — **Matrix: Water**
Date Received: 10/06/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		10	801597	Y1S	EET SAV	10/09/23 15:56

Client Sample ID: LC34-DPT0961-034.0-20231004 — Lab Sample ID: 670-28133-5

Date Collected: 10/04/23 15:10 — **Matrix: Water**
Date Received: 10/06/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		5	801597	Y1S	EET SAV	10/09/23 16:18
Total/NA	Analysis	8260D	DL	25	801767	Y1S	EET SAV	10/09/23 23:31

Client Sample ID: LC34-DPT0961-038.0-20231004 — Lab Sample ID: 670-28133-6

Date Collected: 10/04/23 15:30 — **Matrix: Water**
Date Received: 10/06/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	801597	Y1S	EET SAV	10/09/23 11:53
Total/NA	Analysis	8260D	DL	5	801767	Y1S	EET SAV	10/09/23 23:54

Client Sample ID: LC34-DPT0962-008.0-20231004 — Lab Sample ID: 670-28133-7

Date Collected: 10/04/23 16:10 — **Matrix: Water**
Date Received: 10/06/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	801597	Y1S	EET SAV	10/09/23 12:13

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28133-1
SDG: 670-28133-1

Client Sample ID: LC34-DPT0962-013.0-20231004
Lab Sample ID: 670-28133-8

Date Collected: 10/04/23 16:25
Matrix: Water
Date Received: 10/06/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	801597	Y1S	EET SAV	10/09/23 12:33

Client Sample ID: LC34-DPT0962-018.0-20231004
Lab Sample ID: 670-28133-9

Date Collected: 10/04/23 16:40
Matrix: Water
Date Received: 10/06/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	801597	Y1S	EET SAV	10/09/23 12:53

Client Sample ID: LC34-DPT0962-025.0-20231004
Lab Sample ID: 670-28133-10

Date Collected: 10/04/23 17:00
Matrix: Water
Date Received: 10/06/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		5	801597	Y1S	EET SAV	10/09/23 16:41

Client Sample ID: LC34-DPT0962-034.0-20231005
Lab Sample ID: 670-28133-11

Date Collected: 10/05/23 08:00
Matrix: Water
Date Received: 10/06/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		25	801597	Y1S	EET SAV	10/09/23 17:03

Client Sample ID: LC34-DPT0962-038.0-20231005
Lab Sample ID: 670-28133-12

Date Collected: 10/05/23 08:20
Matrix: Water
Date Received: 10/06/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		25	801597	Y1S	EET SAV	10/09/23 17:25

Client Sample ID: LC34-DPT0963-008.0-20231005
Lab Sample ID: 670-28133-13

Date Collected: 10/05/23 09:05
Matrix: Water
Date Received: 10/06/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	801597	Y1S	EET SAV	10/09/23 13:13

Client Sample ID: LC34-DPT0963-013.0-20231005
Lab Sample ID: 670-28133-14

Date Collected: 10/05/23 09:20
Matrix: Water
Date Received: 10/06/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	801597	Y1S	EET SAV	10/09/23 13:33

Client Sample ID: LC34-DPT0963-018.0-20231005 — Lab Sample ID: 670-28133-15

Date Collected: 10/05/23 09:35 — **Matrix: Water**
Date Received: 10/06/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	801597	Y1S	EET SAV	10/09/23 13:53
Total/NA	Analysis	8260D	DL	5	801767	Y1S	EET SAV	10/10/23 00:16

Client Sample ID: LC34-DPT0963-025.0-20231005 — Lab Sample ID: 670-28133-16

Date Collected: 10/05/23 09:55 — **Matrix: Water**
Date Received: 10/06/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		2	801767	Y1S	EET SAV	10/09/23 21:39

Client Sample ID: LC34-DPT0963-034.0-20231005 — Lab Sample ID: 670-28133-17

Date Collected: 10/05/23 10:15 — **Matrix: Water**
Date Received: 10/06/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		25	801767	Y1S	EET SAV	10/09/23 22:02

Client Sample ID: LC34-DPT0963-038.0-20231005 — Lab Sample ID: 670-28133-18

Date Collected: 10/05/23 10:35 — **Matrix: Water**
Date Received: 10/06/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		5	801767	Y1S	EET SAV	10/09/23 22:24
Total/NA	Analysis	8260D	DL	25	801819	Y1S	EET SAV	10/10/23 19:58

Client Sample ID: LC34-DPT0964-008.0-20231005 — Lab Sample ID: 670-28133-19

Date Collected: 10/05/23 11:15 — **Matrix: Water**
Date Received: 10/06/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	801597	Y1S	EET SAV	10/09/23 14:13

Client Sample ID: LC34-DPT0964-013.0-20231005 — Lab Sample ID: 670-28133-20

Date Collected: 10/05/23 11:30 — **Matrix: Water**
Date Received: 10/06/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	801597	Y1S	EET SAV	10/09/23 14:33

Client Sample ID: LC34-DPT0964-018.0-20231005 — Lab Sample ID: 670-28133-21

Date Collected: 10/05/23 11:45 — **Matrix: Water**
Date Received: 10/06/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	801597	Y1S	EET SAV	10/09/23 14:53
Total/NA	Analysis	8260D	DL	5	801767	Y1S	EET SAV	10/10/23 00:39

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28133-1
SDG: 670-28133-1

Client Sample ID: LC34-DPT0964-025.0-20231005

Lab Sample ID: 670-28133-22

Date Collected: 10/05/23 12:00
Matrix: Water
Date Received: 10/06/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		10	801767	Y1S	EET SAV	10/09/23 22:47

Client Sample ID: LC34-DPT0964-034.0-20231005

Lab Sample ID: 670-28133-23

Date Collected: 10/05/23 12:15
Matrix: Water
Date Received: 10/06/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	801597	Y1S	EET SAV	10/09/23 15:13

Client Sample ID: LC34-DPT0964-038.0-20231005

Lab Sample ID: 670-28133-24

Date Collected: 10/05/23 12:35
Matrix: Water
Date Received: 10/06/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	801597	Y1S	EET SAV	10/09/23 15:33

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28133-1
SDG: 670-28133-1

Laboratory: Eurofins Savannah

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
	AFCEE	SAVLAB	
Alabama	State	41450	06-30-24
ANAB	Dept. of Defense ELAP	L2463	09-22-24
Arkansas DEQ	State	19-015-0	02-01-24
California	State	2939	06-30-24
Florida	NELAP	E87052	06-30-24
Georgia	State	E87052	06-30-24
Georgia (DW)	State	803	06-30-24
Guam	State	19-007R	04-17-24
Hawaii	State	<cert No.>	06-30-24
Illinois	NELAP	200022	11-30-23
Indiana	State	C-GA-02	06-30-24
Iowa	State	353	07-01-25
Kentucky (UST)	State	NA	06-30-24
Louisiana	NELAP	30690	06-30-24
Louisiana (All)	NELAP	30690	06-30-24
Louisiana (DW)	State	LA009	12-31-23
Maine	State	GA00006	09-25-24
Maryland	State	250	12-31-23
Massachusetts	State	M-GA006	06-30-24
Michigan	State	9925	06-30-24
Mississippi	State	<cert No.>	06-30-24
Nebraska	State	NE-OS-7-04	06-30-24
New Jersey	NELAP	GA769	06-30-24
New Mexico	State	GA00006	06-30-24
North Carolina (DW)	State	13701	07-31-24
North Carolina (WW/SW)	State	269	12-31-23
Pennsylvania	NELAP	68-00474	06-30-24
Puerto Rico	State	GA00006	01-01-24
South Carolina	State	98001	06-30-23 *
Tennessee	State	TN02961	06-30-24
Texas	NELAP	T1047004185	11-30-23
Texas	TCEQ Water Supply	T104704185	06-30-24
USDA	US Federal Programs	P330-18-00313	09-03-24
Virginia	NELAP	460161	06-14-24
Wyoming	State	8TMS-L	06-30-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28133-1
SDG: 670-28133-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET SAV
5030B	Purge and Trap	SW846	EET SAV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Sample Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28133-1
SDG: 670-28133-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
670-28133-1	LC34-DPT0961-008.0-20231004	Water	10/04/23 14:00	10/06/23 08:00
670-28133-2	LC34-DPT0961-013.0-20231004	Water	10/04/23 14:15	10/06/23 08:00
670-28133-3	LC34-DPT0961-018.0-20231004	Water	10/04/23 14:30	10/06/23 08:00
670-28133-4	LC34-DPT0961-025.0-20231004	Water	10/04/23 14:50	10/06/23 08:00
670-28133-5	LC34-DPT0961-034.0-20231004	Water	10/04/23 15:10	10/06/23 08:00
670-28133-6	LC34-DPT0961-038.0-20231004	Water	10/04/23 15:30	10/06/23 08:00
670-28133-7	LC34-DPT0962-008.0-20231004	Water	10/04/23 16:10	10/06/23 08:00
670-28133-8	LC34-DPT0962-013.0-20231004	Water	10/04/23 16:25	10/06/23 08:00
670-28133-9	LC34-DPT0962-018.0-20231004	Water	10/04/23 16:40	10/06/23 08:00
670-28133-10	LC34-DPT0962-025.0-20231004	Water	10/04/23 17:00	10/06/23 08:00
670-28133-11	LC34-DPT0962-034.0-20231005	Water	10/05/23 08:00	10/06/23 08:00
670-28133-12	LC34-DPT0962-038.0-20231005	Water	10/05/23 08:20	10/06/23 08:00
670-28133-13	LC34-DPT0963-008.0-20231005	Water	10/05/23 09:05	10/06/23 08:00
670-28133-14	LC34-DPT0963-013.0-20231005	Water	10/05/23 09:20	10/06/23 08:00
670-28133-15	LC34-DPT0963-018.0-20231005	Water	10/05/23 09:35	10/06/23 08:00
670-28133-16	LC34-DPT0963-025.0-20231005	Water	10/05/23 09:55	10/06/23 08:00
670-28133-17	LC34-DPT0963-034.0-20231005	Water	10/05/23 10:15	10/06/23 08:00
670-28133-18	LC34-DPT0963-038.0-20231005	Water	10/05/23 10:35	10/06/23 08:00
670-28133-19	LC34-DPT0964-008.0-20231005	Water	10/05/23 11:15	10/06/23 08:00
670-28133-20	LC34-DPT0964-013.0-20231005	Water	10/05/23 11:30	10/06/23 08:00
670-28133-21	LC34-DPT0964-018.0-20231005	Water	10/05/23 11:45	10/06/23 08:00
670-28133-22	LC34-DPT0964-025.0-20231005	Water	10/05/23 12:00	10/06/23 08:00
670-28133-23	LC34-DPT0964-034.0-20231005	Water	10/05/23 12:15	10/06/23 08:00
670-28133-24	LC34-DPT0964-038.0-20231005	Water	10/05/23 12:35	10/06/23 08:00

Tetra Tech, Inc.

CHAIN OF CUSTODY | NUMBER No. 3758 | PAGE 1 OF 2

PROJECT NO: 112G08985	FACILITY: KSC-LC34	PROJECT MANAGER Mark Jonnet	PHONE NUMBER (412) 921-8622	LABORATORY NAME AND CONTACT: Eurofins — Kaitlin Dylnick
SAMPLERS (SIGNATURE) - Chuck Sorden		FIELD OPERATIONS LEADER Chuck Sorden	PHONE NUMBER (321) 591-7580	ADDRESS 481 Newburyport Ave.
		CARRIER/WAYBILL NUMBER		CITY, STATE Altamonte Springs, FL

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2023	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G): G	G	PRESERVATIVE USED: HCl/4°C	4°C	TYPE OF ANALYSIS: 8260D-(MOD) PFAS LC34 Custom List	8260D-(MOD) PFAS LC34 Custom List	COMMENTS
10/04	1400	LC34-DPT0961-008.0-20231004	47	6	10	GW	G	4	x	x					
	1415	LC34-DPT0961-013.0-20231004		11	15										
	1430	LC34-DPT0961-018.0-20231004		16	20										
	1450	LC34-DPT0961-025.0-20231004		23	27										
	1510	LC34-DPT0961-034.0-20231004		32	36										
	1530	LC34-DPT0961-038.0-20231004	47	36	40										
	1610	LC34-DPT0962-008.0-20231004	51	6	10										
	1625	LC34-DPT0962-013.0-20231004		11	15										
	1640	LC34-DPT0962-018.0-20231004		16	20										
10/04	1700	LC34-DPT0962-025.0-20231004		23	27										
10/05	0800	LC34-DPT0962-034.0-20231005		32	36										
	0820	LC34-DPT0962-038.0-20231005	51	36	40										
10/05	0905	LC34-DPT0963-008.0-20231005	48	6	10	GW	G	4	x	x					

670-28133 Chain of Custody

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	10/05/23	1415	1. RECEIVED BY		
2. RELINQUISHED BY			2. RECEIVED BY		
3. RELINQUISHED BY			3. RECEIVED BY	10/6	0800

COMMENTS 1.1/0.6

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

556

FORM NO. TtNUS-001 4/02R

10/27/2023

Tetra Tech, Inc. CHAIN OF CUSTODY | NUMBER No. 3759 | PAGE 2 OF 2

PROJECT NO: 112G08985	FACILITY: KSC-LC34	PROJECT MANAGER: Mark Sonnet	PHONE NUMBER: (412) 921-8622	LABORATORY NAME AND CONTACT: Eurofins – Kaitlin Dylnick
SAMPLERS (SIGNATURE): - Chuck Sorden		FIELD OPERATIONS LEADER: Chuck Sorden	PHONE NUMBER: (321) 591-7580	ADDRESS: 481 Newburyport Ave.
		CARRIER/WAYBILL NUMBER		CITY, STATE: ~~Ort~~ Lts Altamonte Springs, FL

STANDARD TAT ☒
RUSH TAT ☐ ☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): G G
PRESERVATIVE USED: HCl/4°C 4°C

DATE YEAR 2023	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS: 8260D-(MOD) NASA LC34 Custom List	8260D-(MOD) NASA LC34 Custom List	COMMENTS
10/05	0920	LC34-DPT0963-013.0-20231005	42	11	15	GW	G	4	X	X	
1	0935	LC34-DPT0963-018.0-20231005	↑	16	20	1	1	1	1	1	
	0955	LC34-DPT0963-025.0-20231005		23	27						
	1015	LC34-DPT0963-034.0-20231005	↓	32	36						
	1035	LC34-DPT0963-038.0-20231005	42	36	40						
	1115	LC34-DPT0964-008.0-20231005	55	6	10						
	1130	LC34-DPT0964-013.0-20231005	↑	11	15						
	1145	LC34-DPT0964-018.0-20231005		16	20						
	1200	LC34-DPT0964-025.0-20231005		23	27						
↓	1215	LC34-DPT0964-034.0-20231005	↓	32	36	↓	↓	↓	↓	↓	
10/05	1235	LC34-DPT0964-038.0-20231005	55	36	40	GW	G	4	X	X	

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	10/05/23	1415	1. RECEIVED BY		
2. RELINQUISHED BY			2. RECEIVED BY		
3. RELINQUISHED BY			3. RECEIVED BY	10/6	0800

COMMENTS: 1.1/0.6

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

5926 FORM NO. TtNUS-001 4/02R

Eurofins Orlando
481 Newburyport Avenue
Altamonte Springs, FL 32701
Phone: 407-339-5984 Fax: 407-260-6110

Chain of Custody Record

eurofins

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Dylnicki, Kaitlin	Carrier Tracking No(s):	COC No: 670-16463.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: kaitlin.dylnicki@et.eurofinsus.com	State of Origin: Florida	Page: Page 1 of 3
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP Florida		Job #: 670-28133-1
Address: 5102 LaRoche Avenue,	Due Date Requested: 10/18/2023			
City: Savannah	TAT Requested (days):			
State, Zip: GA, 31404				
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	PO #:			
Email:	WO #:			
Project Name: NASA KSC LC34	Project #: 67001156			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D/5030B (MOD) NASA LC34 Custom	8260D/5030B_UP (MOD) NASA LC34 Custom	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
LC34-DPT0961-008.0-20231004 (670-28133-1)	10/4/23	14:00 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0961-013.0-20231004 (670-28133-2)	10/4/23	14:15 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0961-018.0-20231004 (670-28133-3)	10/4/23	14:30 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0961-025.0-20231004 (670-28133-4)	10/4/23	14:50 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0961-034.0-20231004 (670-28133-5)	10/4/23	15:10 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0961-038.0-20231004 (670-28133-6)	10/4/23	15:30 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0962-008.0-20231004 (670-28133-7)	10/4/23	16:10 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0962-013.0-20231004 (670-28133-8)	10/4/23	16:25 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0962-018.0-20231004 (670-28133-9)	10/4/23	16:40 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)***
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested I II, III IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 10/6 1500	Company	Received by:	Date/Time: 10/7/23 0545	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks: 2-6-2-9

Eurofins Orlando
481 Newburyport Avenue
Altamonte Springs, FL 32701
Phone: 407-339-5984 Fax: 407-260-6110

Chain of Custody Record

eurofins

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Dylnicki Kaitlin	Carrier Tracking No(s):	COC No: 670-16463.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: kaitlin.dylnicki@et.eurofinsus.com	State of Origin: Florida	Page: Page 2 of 3
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP Florida		Job #: 670-28133-1
Address: 5102 LaRoche Avenue,	Due Date Requested: 10/18/2023			
City: Savannah	TAT Requested (days):			
State, Zip: GA, 31404				
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	PO #:			
Email:	WO #:			
Project Name: NASA KSC LC34	Project #: 67001156			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D/5030B (MOD) NASA LC34 Custom	8260D/5030B_UP (MOD) NASA LC34 Custom	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
LC34-DPT0962-025.0-20231004 (670-28133-10)	10/4/23	17:00 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0962-034.0-20231005 (670-28133-11)	10/5/23	08:00 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0962-038.0-20231005 (670-28133-12)	10/5/23	08:20 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0963-008.0-20231005 (670-28133-13)	10/5/23	09:05 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0963-013.0-20231005 (670-28133-14)	10/5/23	09:20 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0963-018.0-20231005 (670-28133-15)	10/5/23	09:35 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0963-025.0-20231005 (670-28133-16)	10/5/23	09:55 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0963-034.0-20231005 (670-28133-17)	10/5/23	10:15 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0963-038.0-20231005 (670-28133-18)	10/5/23	10:35 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested I, II, III IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	10/6 1500			10/7/23 0944	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks: 2.6-2.9

Eurofins Orlando
481 Newburyport Avenue
Altamonte Springs, FL 32701
Phone: 407-339-5984 Fax: 407-260-6110

Chain of Custody Record

eurofins

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Dylnicki, Kaitlin	Carrier Tracking No(s):	COC No: 670-16463.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: kaitlin.dylnicki@et.eurofinsus.com	State of Origin: Florida	Page: Page 3 of 3
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP Florida		Job #: 670-28133-1
Address: 5102 LaRoche Avenue,	Due Date Requested: 10/18/2023			
City: Savannah	TAT Requested (days):			
State, Zip: GA, 31404				
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	PO #:			
Email:	WO #:			
Project Name: NASA KSC LC34	Project #: 67001156			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D/5030B (MOD) NASA LC34 Custom	8260D/5030B_UP (MOD) NASA LC34 Custom	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
LC34-DPT0964-008.0-20231005 (670-28133-19)	10/5/23	11 15 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0964-013.0-20231005 (670-28133-20)	10/5/23	11:30 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0964-018.0-20231005 (670-28133-21)	10/5/23	11:45 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0964-025.0-20231005 (670-28133-22)	10/5/23	12:00 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0964-034.0-20231005 (670-28133-23)	10/5/23	12:15 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0964-038.0-20231005 (670-28133-24)	10/5/23	12:35 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I II III IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	10/6 1500			10/7/23 0949	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks: 2.6-2.9

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 670-28133-1
SDG Number: 670-28133-1

Login Number: 28133
List Number: 1
Creator: Hartley, Tyler

List Source: Eurofins Orlando

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 670-28133-1
SDG Number: 670-28133-1

Login Number: 28133
List Number: 2
Creator: Watters, David

List Source: Eurofins Savannah
List Creation: 10/07/23 12:48 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	False	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Mark Jonnet
Tetra Tech, Inc.
Foster Plaza 7
661 Anderson Drive
Suite 200
Pittsburgh, Pennsylvania 15220-2745

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JOB DESCRIPTION

NASA KSC LC34 DPT
SDG NUMBER 670-28220

JOB NUMBER

670-28220-1

Eurofins Orlando
481 Newburyport Avenue
Altamonte Springs FL 32701

See page two for job notes and contact information.

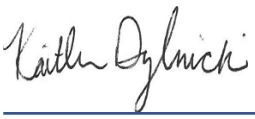
my EOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization



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Authorized for release by
Kaitlin Dylnicki, Project Manager
kaitlin.dylnicki@et.eurofinsus.com
(407)339-5984

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Definitions/Glossary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28220-1
SDG: 670-28220

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J1	Estimated value; value may not be accurate. Surrogate recovery outside of criteria.
J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
L	Off-scale high. Actual value is known to be greater than the value given.
U	Indicates that the compound was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 670-28220-1

Laboratory: Eurofins Orlando

Narrative

Job Narrative
Client: Tetra Tech
Client PM: Mark Jonnet
Project: NASA KSC LC34
Project Number: 112G08985
670-28220-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 10/7/2023 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.8°C

GC/MS VOA
Method 8260D: The continuing calibration verification (CCV) associated with batch 680-802063 recovered above the upper control limit for Bromomethane, Chloroethane and Trichlorofluoromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260D: The continuing calibration verification (CCV) associated with batch 680-802063 recovered outside acceptance criteria, low biased, for 1,2-Dibromo-3-Chloropropane, 2-Butanone (MEK), 2-Hexanone, Acetone, Chloromethane and Methyl acetate. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

Method 8260D: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 680-802063 recovered outside control limits for the following analytes: Chloroethane and Trichlorofluoromethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D: The laboratory control sample (LCS) for analytical batch 680-802063 recovered outside control limits for the following analytes: Bromomethane. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Method 8260D: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for analytical batch 680-802063 recovered outside control limits for the following analyte(s): 1,2-Dibromo-3-Chloropropane. 1,2-Dibromo-3-Chloropropane have been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260D: The method blank for analytical batch 680-802063 contained 1,2,4-Trichlorobenzene above the method detection limit (MDL). None of the samples associated with this method blank contained the target compound; therefore, re-extraction and/or re-analysis of samples were not performed.

Method 8260D: The continuing calibration verification (CCV) associated with batch 680-802239 recovered outside acceptance criteria, low biased, for 1,2-Dibromo-3-Chloropropane, Acetone, Chloromethane and Methyl acetate. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

Job ID: 670-28220-1 (Continued)

Laboratory: Eurofins Orlando (Continued)

Method 8260D: The laboratory control sample duplicate (LCSD) for analytical batch 680-802239 recovered outside control limits for the following analytes: Bromomethane. This analyte was biased high in the LCSD and was not detected in the associated samples; therefore, the data have been reported.

Method 8260D: The continuing calibration verification (CCV) associated with batch 680-802239 recovered above the upper control limit for Bromomethane, Chloroethane and Trichlorofluoromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260D: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 680-802239 recovered outside control limits for the following analytes: Chloroethane and Trichlorofluoromethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for analytical batch 680-802239 recovered outside control limits for the following analyte(s): 1,2-Dibromo-3-Chloropropane. 1,2-Dibromo-3-Chloropropane have been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260D: The laboratory control sample duplicate (LCSD) for analytical batch 680-802239 recovered outside control limits for the following analyte(s): Methyl acetate. Methyl acetate has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260D: The following samples were diluted to bring the concentration of target analytes within the calibration range: LC34-DPT0965-038.0-20231005 (670-28220-6) and LC34-DPT0966-025.0-20231005 (670-28220-10). Elevated reporting limits (RLs) are provided.

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-802239.

Method 8260D: Surrogate recovery was outside acceptance limits for the following matrix spike (MS) sample: (680-241324-A-2-B MS). The parent sample's surrogate recovery was within limits. The MS sample has been qualified and reported.

Method 8260D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 680-801695 and analytical batch 680-802234 were outside control limits. Sample matrix interference is suspected.

Method 8260D: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 680-801695 and analytical batch 680-802234 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8260D: The following samples were diluted to bring the concentration of target analytes within the calibration range: LC34-DPT0969-025.0-20231006 (670-28220-28), LC34-DPT0969-034.0-20231006 (670-28220-29) and LC34-DPT0969-038.0 -20231006 (670-28220-30). Elevated reporting limits (RLs) are provided.

Method 8260D: The continuing calibration verification (CCV) associated with batch 680-802234 recovered above the upper control limit for Trichlorofluoromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260D: The continuing calibration verification (CCV) associated with batch 680-802234 recovered outside acceptance criteria, low biased, for Chloromethane. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

Method 8260D: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 680-802234 recovered outside control limits for the following analytes: Trichlorofluoromethane. This analyte was biased high in the LCS and was not

Job ID: 670-28220-1 (Continued)

Laboratory: Eurofins Orlando (Continued)

detected in the associated samples; therefore, the data have been reported.

Method 8260D: The continuing calibration verification (CCV) associated with batch 680-802248 recovered above the upper control limit for Bromomethane and Trichlorofluoromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260D: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 680-802248 recovered outside control limits for the following analytes: Trichlorofluoromethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D: The following samples were diluted to bring the concentration of target analytes within the calibration range: LC34-DPT0966-038.0-20231005 (670-28220-12), LC34-DPT0967-025.0-20231006 (670-28220-16), LC34-DPT0967-034.0-20231006 (670-28220-17), LC34-DPT0967-038.0-20231006 (670-28220-18), LC34-DPT0968-025.0-20231006 (670-28220-22) and LC34-DPT0968-034.0-20231006 (670-28220-23). Elevated reporting limits (RLs) are provided.

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-802248.

Method 8260D: The continuing calibration verification (CCV) analyzed in batch 680-802610 was outside the method criteria for the following analyte(s): 1,2-Dibromo-3-Chloropropane, 2-Butanone (MEK), 4-Methyl-2-pentanone and Trichlorofluoromethane. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8260D: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 680-802610 recovered outside control limits for the following analytes: Trichlorofluoromethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D: The following sample was diluted to bring the concentration of target analytes within the calibration range: LC34-DPT0966-034.0-20231005 (670-28220-11). Elevated reporting limits (RLs) are provided. The sample was analyzed from a preserved vial that was received with headspace. The laboratory also analyzed an unpreserved vial with comparable results obtained so the in hold data was reported.

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-802610.

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-802487.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28220-1
SDG: 670-28220

Client Sample ID: LC34-DPT0965-008.0-20231005 — Lab Sample ID: 670-28220-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	13		1.0	0.25	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	1.2		1.0	0.34	ug/L	1		8260D	Total/NA
Vinyl chloride	1.1		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0965-013 -20231005 — Lab Sample ID: 670-28220-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	10		1.0	0.25	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	0.34	I	1.0	0.34	ug/L	1		8260D	Total/NA
Vinyl chloride	130		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0965-018.0-20231005 — Lab Sample ID: 670-28220-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	190		20	5.0	ug/L	20		8260D	Total/NA
Vinyl chloride	1200		20	8.0	ug/L	20		8260D	Total/NA

Client Sample ID: LC34-DPT0965-025.0-20231005 — Lab Sample ID: 670-28220-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	130		50	13	ug/L	50		8260D	Total/NA
Ethylbenzene	13	I	50	10	ug/L	50		8260D	Total/NA
o-Xylene	15	I	50	13	ug/L	50		8260D	Total/NA
Toluene	15	I	50	13	ug/L	50		8260D	Total/NA
trans-1,2-Dichloroethene	24	I	50	17	ug/L	50		8260D	Total/NA
Trichloroethene	13	I	50	10	ug/L	50		8260D	Total/NA
Vinyl chloride	3200		50	20	ug/L	50		8260D	Total/NA
Xylenes, Total	15	I	50	12	ug/L	50		8260D	Total/NA

Client Sample ID: LC34-DPT0965-034.0-20231005 — Lab Sample ID: 670-28220-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	10	I	50	10	ug/L	50		8260D	Total/NA
Vinyl chloride	3200		50	20	ug/L	50		8260D	Total/NA

Client Sample ID: LC34-DPT0965-038.0-20231005 — Lab Sample ID: 670-28220-6

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	13	I	20	5.4	ug/L	20		8260D	Total/NA
cis-1,2-Dichloroethene	160		20	5.0	ug/L	20		8260D	Total/NA
Ethylbenzene	11	I	20	4.0	ug/L	20		8260D	Total/NA
m,p-Xylenes	27		20	9.8	ug/L	20		8260D	Total/NA
o-Xylene	9.7	I	20	5.2	ug/L	20		8260D	Total/NA
Toluene	16	I	20	5.0	ug/L	20		8260D	Total/NA
Vinyl chloride	1300		20	8.0	ug/L	20		8260D	Total/NA
Xylenes, Total	37		20	4.6	ug/L	20		8260D	Total/NA

Client Sample ID: LC34-DPT0966-008.0-20231005 — Lab Sample ID: 670-28220-7

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.37	I	1.0	0.25	ug/L	1		8260D	Total/NA
Trichloroethene	0.42	I	1.0	0.20	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28220-1
SDG: 670-28220

Client Sample ID: LC34-DPT0966-013.0-20231005 — Lab Sample ID: 670-28220-8

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.7		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	27		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0966-018.0-20231005 — Lab Sample ID: 670-28220-9

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	3.8		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	14		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0966-025.0-20231005 — Lab Sample ID: 670-28220-10

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	52		20	5.0	ug/L	20		8260D	Total/NA
trans-1,2-Dichloroethene	6.9	I	20	6.8	ug/L	20		8260D	Total/NA
Vinyl chloride	890		20	8.0	ug/L	20		8260D	Total/NA

Client Sample ID: LC34-DPT0966-034.0-20231005 — Lab Sample ID: 670-28220-11

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	2.0	I	4.0	0.86	ug/L	2		8260D	Total/NA
cis-1,2-Dichloroethene	8.5		2.0	0.50	ug/L	2		8260D	Total/NA
trans-1,2-Dichloroethene	19		2.0	0.68	ug/L	2		8260D	Total/NA
Vinyl chloride - DL	4800		50	20	ug/L	50		8260D	Total/NA

Client Sample ID: LC34-DPT0966-038.0-20231005 — Lab Sample ID: 670-28220-12

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	11	I	25	6.3	ug/L	25		8260D	Total/NA
Vinyl chloride	2400		25	10	ug/L	25		8260D	Total/NA

Client Sample ID: LC34-DPT0967-008.0-20231006 — Lab Sample ID: 670-28220-13

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.38	I	1.0	0.25	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0967-013.0-20231006 — Lab Sample ID: 670-28220-14

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	23		1.0	0.25	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	0.59	I	1.0	0.34	ug/L	1		8260D	Total/NA
Trichloroethene	0.58	I	1.0	0.20	ug/L	1		8260D	Total/NA
Vinyl chloride	23		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0967-018.0-20231006 — Lab Sample ID: 670-28220-15

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	69		1.0	0.25	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	1.7		1.0	0.34	ug/L	1		8260D	Total/NA
Trichloroethene	0.28	I	1.0	0.20	ug/L	1		8260D	Total/NA
Vinyl chloride	82		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0967-025.0-20231006 — Lab Sample ID: 670-28220-16

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1400		10	2.5	ug/L	10		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Orlando

Client Sample ID: LC34-DPT0967-025.0-20231006 (Continued) — Lab Sample ID: 670-28220-16

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
trans-1,2-Dichloroethene	26		10	3.4	ug/L	10		8260D	Total/NA
Vinyl chloride	1300		10	4.0	ug/L	10		8260D	Total/NA

Client Sample ID: LC34-DPT0967-034.0-20231006 — Lab Sample ID: 670-28220-17

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2700		25	6.3	ug/L	25		8260D	Total/NA
trans-1,2-Dichloroethene	12	I	25	8.5	ug/L	25		8260D	Total/NA
Vinyl chloride	760		25	10	ug/L	25		8260D	Total/NA

Client Sample ID: LC34-DPT0967-038.0-20231006 — Lab Sample ID: 670-28220-18

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	490		5.0	1.3	ug/L	5		8260D	Total/NA
Vinyl chloride	14		5.0	2.0	ug/L	5		8260D	Total/NA

Client Sample ID: LC34-DPT0968-008.0-20231006 — Lab Sample ID: 670-28220-19

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.6		1.0	0.25	ug/L	1		8260D	Total/NA
Trichloroethene	0.32	I	1.0	0.20	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0968-013.0-20231006 — Lab Sample ID: 670-28220-20

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	6.9		1.0	0.25	ug/L	1		8260D	Total/NA
Trichloroethene	1.2		1.0	0.20	ug/L	1		8260D	Total/NA
Vinyl chloride	2.5		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0968-018.0-20231006 — Lab Sample ID: 670-28220-21

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	72		1.0	0.25	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	1.3		1.0	0.34	ug/L	1		8260D	Total/NA
Trichloroethene	0.33	I	1.0	0.20	ug/L	1		8260D	Total/NA
Vinyl chloride	18		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0968-025.0-20231006 — Lab Sample ID: 670-28220-22

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2300		25	6.3	ug/L	25		8260D	Total/NA
trans-1,2-Dichloroethene	39		25	8.5	ug/L	25		8260D	Total/NA
Vinyl chloride	1500		25	10	ug/L	25		8260D	Total/NA

Client Sample ID: LC34-DPT0968-034.0-20231006 — Lab Sample ID: 670-28220-23

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1300		10	2.5	ug/L	10		8260D	Total/NA
Vinyl chloride	150		10	4.0	ug/L	10		8260D	Total/NA

Client Sample ID: LC34-DPT0968-038.0-20231006 — Lab Sample ID: 670-28220-24

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	48		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	2.9		1.0	0.40	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28220-1
SDG: 670-28220

Client Sample ID: LC34-DPT0969-008.0-20231006 — Lab Sample ID: 670-28220-25

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	8.1		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	9.1		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0969-013.0-20231006 — Lab Sample ID: 670-28220-26

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	19		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	27		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0969-018.0-20231006 — Lab Sample ID: 670-28220-27

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	78		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	130		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0969-025.0-20231006 — Lab Sample ID: 670-28220-28

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	3500		50	13	ug/L	50		8260D	Total/NA
trans-1,2-Dichloroethene	130		50	17	ug/L	50		8260D	Total/NA
Vinyl chloride	820		50	20	ug/L	50		8260D	Total/NA

Client Sample ID: LC34-DPT0969-034.0-20231006 — Lab Sample ID: 670-28220-29

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
trans-1,2-Dichloroethene	2100		250	85	ug/L	250		8260D	Total/NA
Trichloroethene	470		250	50	ug/L	250		8260D	Total/NA
Vinyl chloride	9600		250	100	ug/L	250		8260D	Total/NA
cis-1,2-Dichloroethene - DL	58000		500	130	ug/L	500		8260D	Total/NA

Client Sample ID: LC34-DPT0969-038.0 -20231006 — Lab Sample ID: 670-28220-30

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	21000		200	50	ug/L	200		8260D	Total/NA
trans-1,2-Dichloroethene	290		200	68	ug/L	200		8260D	Total/NA
Trichloroethene	50	I	200	40	ug/L	200		8260D	Total/NA
Vinyl chloride	3700		200	80	ug/L	200		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28220-1
SDG: 670-28220

Client Sample ID: LC34-DPT0965-008.0-20231005
Date Collected: 10/05/23 13:15
Date Received: 10/07/23 08:00

Lab Sample ID: 670-28220-1
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/11/23 21:11	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/11/23 21:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/11/23 21:11	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/11/23 21:11	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/11/23 21:11	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/11/23 21:11	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/11/23 21:11	1
1,2-Dibromo-3-Chloropropane	1.8	U J3	5.0	1.8	ug/L			10/11/23 21:11	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/11/23 21:11	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/11/23 21:11	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/11/23 21:11	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/11/23 21:11	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/11/23 21:11	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/11/23 21:11	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/11/23 21:11	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/11/23 21:11	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/11/23 21:11	1
Acetone	3.7	U	10	3.7	ug/L			10/11/23 21:11	1
Benzene	0.27	U	1.0	0.27	ug/L			10/11/23 21:11	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/11/23 21:11	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/11/23 21:11	1
Bromomethane	3.7	U J3	5.0	3.7	ug/L			10/11/23 21:11	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/11/23 21:11	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/11/23 21:11	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/11/23 21:11	1
Chloroethane	4.6	U J3	5.0	4.6	ug/L			10/11/23 21:11	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/11/23 21:11	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/11/23 21:11	1
cis-1,2-Dichloroethene	**13**		1.0	0.25	ug/L			10/11/23 21:11	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/11/23 21:11	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/11/23 21:11	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/11/23 21:11	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/11/23 21:11	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/11/23 21:11	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/11/23 21:11	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/11/23 21:11	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/11/23 21:11	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/11/23 21:11	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/11/23 21:11	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/11/23 21:11	1
Styrene	0.27	U	1.0	0.27	ug/L			10/11/23 21:11	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/11/23 21:11	1
Toluene	0.25	U	1.0	0.25	ug/L			10/11/23 21:11	1
trans-1,2-Dichloroethene	**1.2**		1.0	0.34	ug/L			10/11/23 21:11	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/11/23 21:11	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/11/23 21:11	1
Trichlorofluoromethane	0.33	U J3	1.0	0.33	ug/L			10/11/23 21:11	1
Vinyl chloride	**1.1**		1.0	0.40	ug/L			10/11/23 21:11	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/11/23 21:11	1

Client Sample ID: LC34-DPT0965-008.0-20231005

Lab Sample ID: 670-28220-1

Date Collected: 10/05/23 13:15
Matrix: Water
Date Received: 10/07/23 08:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		60 - 124		10/11/23 21:11	1
4-Bromofluorobenzene (Surr)	80		70 - 130		10/11/23 21:11	1
Dibromofluoromethane (Surr)	111		70 - 130		10/11/23 21:11	1
Toluene-d8 (Surr)	100		70 - 130		10/11/23 21:11	1

Client Sample ID: LC34-DPT0965-013 -20231005

Lab Sample ID: 670-28220-2

Date Collected: 10/05/23 13:30
Matrix: Water
Date Received: 10/07/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/11/23 21:34	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/11/23 21:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/11/23 21:34	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/11/23 21:34	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/11/23 21:34	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/11/23 21:34	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/11/23 21:34	1
1,2-Dibromo-3-Chloropropane	1.8	U J3	5.0	1.8	ug/L			10/11/23 21:34	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/11/23 21:34	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/11/23 21:34	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/11/23 21:34	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/11/23 21:34	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/11/23 21:34	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/11/23 21:34	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/11/23 21:34	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/11/23 21:34	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/11/23 21:34	1
Acetone	3.7	U	10	3.7	ug/L			10/11/23 21:34	1
Benzene	0.27	U	1.0	0.27	ug/L			10/11/23 21:34	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/11/23 21:34	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/11/23 21:34	1
Bromomethane	3.7	U J3	5.0	3.7	ug/L			10/11/23 21:34	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/11/23 21:34	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/11/23 21:34	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/11/23 21:34	1
Chloroethane	4.6	U J3	5.0	4.6	ug/L			10/11/23 21:34	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/11/23 21:34	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/11/23 21:34	1
cis-1,2-Dichloroethene	**10**		1.0	0.25	ug/L			10/11/23 21:34	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/11/23 21:34	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/11/23 21:34	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/11/23 21:34	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/11/23 21:34	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/11/23 21:34	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/11/23 21:34	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/11/23 21:34	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/11/23 21:34	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/11/23 21:34	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/11/23 21:34	1

Client Sample ID: LC34-DPT0965-013 -20231005

Lab Sample ID: 670-28220-2

Date Collected: 10/05/23 13:30

Matrix: Water

Date Received: 10/07/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	0.26	U	1.0	0.26	ug/L			10/11/23 21:34	1
Styrene	0.27	U	1.0	0.27	ug/L			10/11/23 21:34	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/11/23 21:34	1
Toluene	0.25	U	1.0	0.25	ug/L			10/11/23 21:34	1
trans-1,2-Dichloroethene	**0.34**	**I**	1.0	0.34	ug/L			10/11/23 21:34	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/11/23 21:34	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/11/23 21:34	1
Trichlorofluoromethane	0.33	U J3	1.0	0.33	ug/L			10/11/23 21:34	1
Vinyl chloride	**130**		1.0	0.40	ug/L			10/11/23 21:34	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/11/23 21:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 124*		*10/11/23 21:34*	*1*
4-Bromofluorobenzene (Surr)	*81*		*70 - 130*		*10/11/23 21:34*	*1*
Dibromofluoromethane (Surr)	*112*		*70 - 130*		*10/11/23 21:34*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/11/23 21:34*	*1*

Client Sample ID: LC34-DPT0965-018.0-20231005

Lab Sample ID: 670-28220-3

Date Collected: 10/05/23 13:45

Matrix: Water

Date Received: 10/07/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	4.2	U	20	4.2	ug/L			10/11/23 22:44	20
1,1,2,2-Tetrachloroethane	8.0	U	20	8.0	ug/L			10/11/23 22:44	20
1,1,2-Trichloro-1,2,2-trifluoroethane	4.6	U	20	4.6	ug/L			10/11/23 22:44	20
1,1,2-Trichloroethane	6.4	U	20	6.4	ug/L			10/11/23 22:44	20
1,1-Dichloroethane	6.6	U	20	6.6	ug/L			10/11/23 22:44	20
1,1-Dichloroethene	6.6	U	20	6.6	ug/L			10/11/23 22:44	20
1,2,4-Trichlorobenzene	11	U	100	11	ug/L			10/11/23 22:44	20
1,2-Dibromo-3-Chloropropane	36	U J3	100	36	ug/L			10/11/23 22:44	20
1,2-Dibromoethane (EDB)	6.6	U	20	6.6	ug/L			10/11/23 22:44	20
1,2-Dichlorobenzene	6.2	U	20	6.2	ug/L			10/11/23 22:44	20
1,2-Dichloroethane	5.0	U	20	5.0	ug/L			10/11/23 22:44	20
1,2-Dichloropropane	4.4	U	20	4.4	ug/L			10/11/23 22:44	20
1,3-Dichlorobenzene	6.2	U	20	6.2	ug/L			10/11/23 22:44	20
1,4-Dichlorobenzene	6.2	U	20	6.2	ug/L			10/11/23 22:44	20
2-Butanone (MEK)	130	U	200	130	ug/L			10/11/23 22:44	20
2-Hexanone	64	U	200	64	ug/L			10/11/23 22:44	20
4-Methyl-2-pentanone	54	U	200	54	ug/L			10/11/23 22:44	20
Acetone	74	U	200	74	ug/L			10/11/23 22:44	20
Benzene	5.4	U	20	5.4	ug/L			10/11/23 22:44	20
Bromodichloromethane	5.0	U	20	5.0	ug/L			10/11/23 22:44	20
Bromoform	12	U	20	12	ug/L			10/11/23 22:44	20
Bromomethane	74	U J3	100	74	ug/L			10/11/23 22:44	20
Carbon disulfide	8.6	U	40	8.6	ug/L			10/11/23 22:44	20
Carbon tetrachloride	6.0	U	20	6.0	ug/L			10/11/23 22:44	20
Chlorobenzene	3.0	U	20	3.0	ug/L			10/11/23 22:44	20
Chloroethane	92	U J3	100	92	ug/L			10/11/23 22:44	20
Chloroform	5.4	U	20	5.4	ug/L			10/11/23 22:44	20

Client Sample ID: LC34-DPT0965-018.0-20231005

Lab Sample ID: 670-28220-3

Date Collected: 10/05/23 13:45

Matrix: Water

Date Received: 10/07/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	11	U	20	11	ug/L			10/11/23 22:44	20
cis-1,2-Dichloroethene	**190**		20	5.0	ug/L			10/11/23 22:44	20
cis-1,3-Dichloropropene	5.2	U	20	5.2	ug/L			10/11/23 22:44	20
Cyclohexane	5.6	U	20	5.6	ug/L			10/11/23 22:44	20
Dibromochloromethane	7.8	U	20	7.8	ug/L			10/11/23 22:44	20
Dichlorodifluoromethane	7.2	U	20	7.2	ug/L			10/11/23 22:44	20
Ethylbenzene	4.0	U	20	4.0	ug/L			10/11/23 22:44	20
Isopropylbenzene	5.2	U	20	5.2	ug/L			10/11/23 22:44	20
m,p-Xylenes	9.8	U	20	9.8	ug/L			10/11/23 22:44	20
Methyl acetate	64	U	100	64	ug/L			10/11/23 22:44	20
Methyl tert-butyl ether	16	U	100	16	ug/L			10/11/23 22:44	20
Methylene Chloride	64	U	100	64	ug/L			10/11/23 22:44	20
o-Xylene	5.2	U	20	5.2	ug/L			10/11/23 22:44	20
Styrene	5.4	U	20	5.4	ug/L			10/11/23 22:44	20
Tetrachloroethene	7.0	U	20	7.0	ug/L			10/11/23 22:44	20
Toluene	5.0	U	20	5.0	ug/L			10/11/23 22:44	20
trans-1,2-Dichloroethene	6.8	U	20	6.8	ug/L			10/11/23 22:44	20
trans-1,3-Dichloropropene	4.6	U	20	4.6	ug/L			10/11/23 22:44	20
Trichloroethene	4.0	U	20	4.0	ug/L			10/11/23 22:44	20
Trichlorofluoromethane	6.6	U J3	20	6.6	ug/L			10/11/23 22:44	20
Vinyl chloride	**1200**		20	8.0	ug/L			10/11/23 22:44	20
Xylenes, Total	4.6	U	20	4.6	ug/L			10/11/23 22:44	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 124*		*10/11/23 22:44*	*20*
4-Bromofluorobenzene (Surr)	*80*		*70 - 130*		*10/11/23 22:44*	*20*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*10/11/23 22:44*	*20*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/11/23 22:44*	*20*

Client Sample ID: LC34-DPT0965-025.0-20231005

Lab Sample ID: 670-28220-4

Date Collected: 10/05/23 14:05

Matrix: Water

Date Received: 10/07/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	11	U	50	11	ug/L			10/11/23 22:21	50
1,1,2,2-Tetrachloroethane	20	U	50	20	ug/L			10/11/23 22:21	50
1,1,2-Trichloro-1,2,2-trifluoroethane	12	U	50	12	ug/L			10/11/23 22:21	50
1,1,2-Trichloroethane	16	U	50	16	ug/L			10/11/23 22:21	50
1,1-Dichloroethane	17	U	50	17	ug/L			10/11/23 22:21	50
1,1-Dichloroethene	17	U	50	17	ug/L			10/11/23 22:21	50
1,2,4-Trichlorobenzene	27	U	250	27	ug/L			10/11/23 22:21	50
1,2-Dibromo-3-Chloropropane	90	U J3	250	90	ug/L			10/11/23 22:21	50
1,2-Dibromoethane (EDB)	17	U	50	17	ug/L			10/11/23 22:21	50
1,2-Dichlorobenzene	16	U	50	16	ug/L			10/11/23 22:21	50
1,2-Dichloroethane	13	U	50	13	ug/L			10/11/23 22:21	50
1,2-Dichloropropane	11	U	50	11	ug/L			10/11/23 22:21	50
1,3-Dichlorobenzene	16	U	50	16	ug/L			10/11/23 22:21	50
1,4-Dichlorobenzene	16	U	50	16	ug/L			10/11/23 22:21	50
2-Butanone (MEK)	320	U	500	320	ug/L			10/11/23 22:21	50

Client Sample ID: LC34-DPT0965-025.0-20231005

Lab Sample ID: 670-28220-4

Date Collected: 10/05/23 14:05
Matrix: Water
Date Received: 10/07/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	160	U	500	160	ug/L			10/11/23 22:21	50
4-Methyl-2-pentanone	140	U	500	140	ug/L			10/11/23 22:21	50
Acetone	190	U	500	190	ug/L			10/11/23 22:21	50
Benzene	14	U	50	14	ug/L			10/11/23 22:21	50
Bromodichloromethane	13	U	50	13	ug/L			10/11/23 22:21	50
Bromoform	30	U	50	30	ug/L			10/11/23 22:21	50
Bromomethane	190	U J3	250	190	ug/L			10/11/23 22:21	50
Carbon disulfide	22	U	100	22	ug/L			10/11/23 22:21	50
Carbon tetrachloride	15	U	50	15	ug/L			10/11/23 22:21	50
Chlorobenzene	7.5	U	50	7.5	ug/L			10/11/23 22:21	50
Chloroethane	230	U J3	250	230	ug/L			10/11/23 22:21	50
Chloroform	14	U	50	14	ug/L			10/11/23 22:21	50
Chloromethane	27	U	50	27	ug/L			10/11/23 22:21	50
cis-1,2-Dichloroethene	**130**		50	13	ug/L			10/11/23 22:21	50
cis-1,3-Dichloropropene	13	U	50	13	ug/L			10/11/23 22:21	50
Cyclohexane	14	U	50	14	ug/L			10/11/23 22:21	50
Dibromochloromethane	20	U	50	20	ug/L			10/11/23 22:21	50
Dichlorodifluoromethane	18	U	50	18	ug/L			10/11/23 22:21	50
Ethylbenzene	**13**	**I**	50	10	ug/L			10/11/23 22:21	50
Isopropylbenzene	13	U	50	13	ug/L			10/11/23 22:21	50
m,p-Xylenes	25	U	50	25	ug/L			10/11/23 22:21	50
Methyl acetate	160	U	250	160	ug/L			10/11/23 22:21	50
Methyl tert-butyl ether	41	U	250	41	ug/L			10/11/23 22:21	50
Methylene Chloride	160	U	250	160	ug/L			10/11/23 22:21	50
o-Xylene	**15**	**I**	50	13	ug/L			10/11/23 22:21	50
Styrene	14	U	50	14	ug/L			10/11/23 22:21	50
Tetrachloroethene	18	U	50	18	ug/L			10/11/23 22:21	50
Toluene	**15**	**I**	50	13	ug/L			10/11/23 22:21	50
trans-1,2-Dichloroethene	**24**	**I**	50	17	ug/L			10/11/23 22:21	50
trans-1,3-Dichloropropene	12	U	50	12	ug/L			10/11/23 22:21	50
Trichloroethene	**13**	**I**	50	10	ug/L			10/11/23 22:21	50
Trichlorofluoromethane	17	U J3	50	17	ug/L			10/11/23 22:21	50
Vinyl chloride	**3200**		50	20	ug/L			10/11/23 22:21	50
Xylenes, Total	**15**	**I**	50	12	ug/L			10/11/23 22:21	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 124*		*10/11/23 22:21*	*50*
4-Bromofluorobenzene (Surr)	*81*		*70 - 130*		*10/11/23 22:21*	*50*
Dibromofluoromethane (Surr)	*110*		*70 - 130*		*10/11/23 22:21*	*50*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/11/23 22:21*	*50*

Client Sample ID: LC34-DPT0965-034.0-20231005

Lab Sample ID: 670-28220-5

Date Collected: 10/05/23 14:25
Matrix: Water
Date Received: 10/07/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	11	U	50	11	ug/L			10/11/23 21:57	50
1,1,2,2-Tetrachloroethane	20	U	50	20	ug/L			10/11/23 21:57	50
1,1,2-Trichloro-1,2,2-trifluoroethane	12	U	50	12	ug/L			10/11/23 21:57	50

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28220-1
SDG: 670-28220

Client Sample ID: LC34-DPT0965-034.0-20231005
Date Collected: 10/05/23 14:25
Date Received: 10/07/23 08:00

Lab Sample ID: 670-28220-5
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	16	U	50	16	ug/L			10/11/23 21:57	50
1,1-Dichloroethane	17	U	50	17	ug/L			10/11/23 21:57	50
1,1-Dichloroethene	17	U	50	17	ug/L			10/11/23 21:57	50
1,2,4-Trichlorobenzene	27	U	250	27	ug/L			10/11/23 21:57	50
1,2-Dibromo-3-Chloropropane	90	U J3	250	90	ug/L			10/11/23 21:57	50
1,2-Dibromoethane (EDB)	17	U	50	17	ug/L			10/11/23 21:57	50
1,2-Dichlorobenzene	16	U	50	16	ug/L			10/11/23 21:57	50
1,2-Dichloroethane	13	U	50	13	ug/L			10/11/23 21:57	50
1,2-Dichloropropane	11	U	50	11	ug/L			10/11/23 21:57	50
1,3-Dichlorobenzene	16	U	50	16	ug/L			10/11/23 21:57	50
1,4-Dichlorobenzene	16	U	50	16	ug/L			10/11/23 21:57	50
2-Butanone (MEK)	320	U	500	320	ug/L			10/11/23 21:57	50
2-Hexanone	160	U	500	160	ug/L			10/11/23 21:57	50
4-Methyl-2-pentanone	140	U	500	140	ug/L			10/11/23 21:57	50
Acetone	190	U	500	190	ug/L			10/11/23 21:57	50
Benzene	14	U	50	14	ug/L			10/11/23 21:57	50
Bromodichloromethane	13	U	50	13	ug/L			10/11/23 21:57	50
Bromoform	30	U	50	30	ug/L			10/11/23 21:57	50
Bromomethane	190	U J3	250	190	ug/L			10/11/23 21:57	50
Carbon disulfide	22	U	100	22	ug/L			10/11/23 21:57	50
Carbon tetrachloride	15	U	50	15	ug/L			10/11/23 21:57	50
Chlorobenzene	7.5	U	50	7.5	ug/L			10/11/23 21:57	50
Chloroethane	230	U J3	250	230	ug/L			10/11/23 21:57	50
Chloroform	14	U	50	14	ug/L			10/11/23 21:57	50
Chloromethane	27	U	50	27	ug/L			10/11/23 21:57	50
cis-1,2-Dichloroethene	13	U	50	13	ug/L			10/11/23 21:57	50
cis-1,3-Dichloropropene	13	U	50	13	ug/L			10/11/23 21:57	50
Cyclohexane	14	U	50	14	ug/L			10/11/23 21:57	50
Dibromochloromethane	20	U	50	20	ug/L			10/11/23 21:57	50
Dichlorodifluoromethane	18	U	50	18	ug/L			10/11/23 21:57	50
Ethylbenzene	10	U	50	10	ug/L			10/11/23 21:57	50
Isopropylbenzene	13	U	50	13	ug/L			10/11/23 21:57	50
m,p-Xylenes	25	U	50	25	ug/L			10/11/23 21:57	50
Methyl acetate	160	U	250	160	ug/L			10/11/23 21:57	50
Methyl tert-butyl ether	41	U	250	41	ug/L			10/11/23 21:57	50
Methylene Chloride	160	U	250	160	ug/L			10/11/23 21:57	50
o-Xylene	13	U	50	13	ug/L			10/11/23 21:57	50
Styrene	14	U	50	14	ug/L			10/11/23 21:57	50
Tetrachloroethene	18	U	50	18	ug/L			10/11/23 21:57	50
Toluene	13	U	50	13	ug/L			10/11/23 21:57	50
trans-1,2-Dichloroethene	17	U	50	17	ug/L			10/11/23 21:57	50
trans-1,3-Dichloropropene	12	U	50	12	ug/L			10/11/23 21:57	50
Trichloroethene	**10**	**I**	50	10	ug/L			10/11/23 21:57	50
Trichlorofluoromethane	17	U J3	50	17	ug/L			10/11/23 21:57	50
Vinyl chloride	**3200**		50	20	ug/L			10/11/23 21:57	50
Xylenes, Total	12	U	50	12	ug/L			10/11/23 21:57	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 124*		*10/11/23 21:57*	*50*
4-Bromofluorobenzene (Surr)	*81*		*70 - 130*		*10/11/23 21:57*	*50*

Client Sample ID: LC34-DPT0965-034.0-20231005

Lab Sample ID: 670-28220-5

Date Collected: 10/05/23 14:25
Matrix: Water
Date Received: 10/07/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*110*		*70 - 130*		*10/11/23 21:57*	*50*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/11/23 21:57*	*50*

Client Sample ID: LC34-DPT0965-038.0-20231005

Lab Sample ID: 670-28220-6

Date Collected: 10/05/23 14:45
Matrix: Water
Date Received: 10/07/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	4.2	U	20	4.2	ug/L			10/12/23 17:55	20
1,1,2,2-Tetrachloroethane	8.0	U	20	8.0	ug/L			10/12/23 17:55	20
1,1,2-Trichloro-1,2,2-trifluoroethane	4.6	U	20	4.6	ug/L			10/12/23 17:55	20
1,1,2-Trichloroethane	6.4	U	20	6.4	ug/L			10/12/23 17:55	20
1,1-Dichloroethane	6.6	U	20	6.6	ug/L			10/12/23 17:55	20
1,1-Dichloroethene	6.6	U	20	6.6	ug/L			10/12/23 17:55	20
1,2,4-Trichlorobenzene	11	U	100	11	ug/L			10/12/23 17:55	20
1,2-Dibromo-3-Chloropropane	36	U J3	100	36	ug/L			10/12/23 17:55	20
1,2-Dibromoethane (EDB)	6.6	U	20	6.6	ug/L			10/12/23 17:55	20
1,2-Dichlorobenzene	6.2	U	20	6.2	ug/L			10/12/23 17:55	20
1,2-Dichloroethane	5.0	U	20	5.0	ug/L			10/12/23 17:55	20
1,2-Dichloropropane	4.4	U	20	4.4	ug/L			10/12/23 17:55	20
1,3-Dichlorobenzene	6.2	U	20	6.2	ug/L			10/12/23 17:55	20
1,4-Dichlorobenzene	6.2	U	20	6.2	ug/L			10/12/23 17:55	20
2-Butanone (MEK)	130	U	200	130	ug/L			10/12/23 17:55	20
2-Hexanone	64	U	200	64	ug/L			10/12/23 17:55	20
4-Methyl-2-pentanone	54	U	200	54	ug/L			10/12/23 17:55	20
Acetone	74	U	200	74	ug/L			10/12/23 17:55	20
Benzene	**13**	**I**	20	5.4	ug/L			10/12/23 17:55	20
Bromodichloromethane	5.0	U	20	5.0	ug/L			10/12/23 17:55	20
Bromoform	12	U	20	12	ug/L			10/12/23 17:55	20
Bromomethane	74	U J3	100	74	ug/L			10/12/23 17:55	20
Carbon disulfide	8.6	U	40	8.6	ug/L			10/12/23 17:55	20
Carbon tetrachloride	6.0	U	20	6.0	ug/L			10/12/23 17:55	20
Chlorobenzene	3.0	U	20	3.0	ug/L			10/12/23 17:55	20
Chloroethane	92	U J3	100	92	ug/L			10/12/23 17:55	20
Chloroform	5.4	U	20	5.4	ug/L			10/12/23 17:55	20
Chloromethane	11	U	20	11	ug/L			10/12/23 17:55	20
cis-1,2-Dichloroethene	**160**		20	5.0	ug/L			10/12/23 17:55	20
cis-1,3-Dichloropropene	5.2	U	20	5.2	ug/L			10/12/23 17:55	20
Cyclohexane	5.6	U	20	5.6	ug/L			10/12/23 17:55	20
Dibromochloromethane	7.8	U	20	7.8	ug/L			10/12/23 17:55	20
Dichlorodifluoromethane	7.2	U	20	7.2	ug/L			10/12/23 17:55	20
Ethylbenzene	**11**	**I**	20	4.0	ug/L			10/12/23 17:55	20
Isopropylbenzene	5.2	U	20	5.2	ug/L			10/12/23 17:55	20
m,p-Xylenes	**27**		20	9.8	ug/L			10/12/23 17:55	20
Methyl acetate	64	U J3	100	64	ug/L			10/12/23 17:55	20
Methyl tert-butyl ether	16	U	100	16	ug/L			10/12/23 17:55	20
Methylene Chloride	64	U	100	64	ug/L			10/12/23 17:55	20
o-Xylene	**9.7**	**I**	20	5.2	ug/L			10/12/23 17:55	20

Client Sample ID: LC34-DPT0965-038.0-20231005

Lab Sample ID: 670-28220-6

Date Collected: 10/05/23 14:45
Matrix: Water
Date Received: 10/07/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	5.4	U	20	5.4	ug/L			10/12/23 17:55	20
Tetrachloroethene	7.0	U	20	7.0	ug/L			10/12/23 17:55	20
Toluene	**16**	**I**	20	5.0	ug/L			10/12/23 17:55	20
trans-1,2-Dichloroethene	6.8	U	20	6.8	ug/L			10/12/23 17:55	20
trans-1,3-Dichloropropene	4.6	U	20	4.6	ug/L			10/12/23 17:55	20
Trichloroethene	4.0	U	20	4.0	ug/L			10/12/23 17:55	20
Trichlorofluoromethane	6.6	U J3	20	6.6	ug/L			10/12/23 17:55	20
Vinyl chloride	**1300**		20	8.0	ug/L			10/12/23 17:55	20
Xylenes, Total	**37**		20	4.6	ug/L			10/12/23 17:55	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 124*		*10/12/23 17:55*	*20*
4-Bromofluorobenzene (Surr)	*80*		*70 - 130*		*10/12/23 17:55*	*20*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*10/12/23 17:55*	*20*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/12/23 17:55*	*20*

Client Sample ID: LC34-DPT0966-008.0-20231005

Lab Sample ID: 670-28220-7

Date Collected: 10/05/23 15:30
Matrix: Water
Date Received: 10/07/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/12/23 15:12	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/12/23 15:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/12/23 15:12	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/12/23 15:12	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/12/23 15:12	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/12/23 15:12	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/12/23 15:12	1
1,2-Dibromo-3-Chloropropane	1.8	U J3	5.0	1.8	ug/L			10/12/23 15:12	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/12/23 15:12	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/12/23 15:12	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/12/23 15:12	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/12/23 15:12	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/12/23 15:12	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/12/23 15:12	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/12/23 15:12	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/12/23 15:12	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/12/23 15:12	1
Acetone	3.7	U	10	3.7	ug/L			10/12/23 15:12	1
Benzene	0.27	U	1.0	0.27	ug/L			10/12/23 15:12	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/12/23 15:12	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/12/23 15:12	1
Bromomethane	3.7	U J3	5.0	3.7	ug/L			10/12/23 15:12	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/12/23 15:12	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/12/23 15:12	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/12/23 15:12	1
Chloroethane	4.6	U J3	5.0	4.6	ug/L			10/12/23 15:12	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/12/23 15:12	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/12/23 15:12	1

Client Sample ID: LC34-DPT0966-008.0-20231005

Lab Sample ID: 670-28220-7

Date Collected: 10/05/23 15:30
Matrix: Water
Date Received: 10/07/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**0.37**	**I**	1.0	0.25	ug/L			10/12/23 15:12	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/12/23 15:12	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/12/23 15:12	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/12/23 15:12	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/12/23 15:12	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/12/23 15:12	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/12/23 15:12	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/12/23 15:12	1
Methyl acetate	3.2	U J3	5.0	3.2	ug/L			10/12/23 15:12	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/12/23 15:12	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/12/23 15:12	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/12/23 15:12	1
Styrene	0.27	U	1.0	0.27	ug/L			10/12/23 15:12	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/12/23 15:12	1
Toluene	0.25	U	1.0	0.25	ug/L			10/12/23 15:12	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/12/23 15:12	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/12/23 15:12	1
Trichloroethene	**0.42**	**I**	1.0	0.20	ug/L			10/12/23 15:12	1
Trichlorofluoromethane	0.33	U J3	1.0	0.33	ug/L			10/12/23 15:12	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/12/23 15:12	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/12/23 15:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 124*		*10/12/23 15:12*	*1*
4-Bromofluorobenzene (Surr)	*78*		*70 - 130*		*10/12/23 15:12*	*1*
Dibromofluoromethane (Surr)	*112*		*70 - 130*		*10/12/23 15:12*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/12/23 15:12*	*1*

Client Sample ID: LC34-DPT0966-013.0-20231005

Lab Sample ID: 670-28220-8

Date Collected: 10/05/23 15:45
Matrix: Water
Date Received: 10/07/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/12/23 15:36	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/12/23 15:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/12/23 15:36	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/12/23 15:36	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/12/23 15:36	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/12/23 15:36	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/12/23 15:36	1
1,2-Dibromo-3-Chloropropane	1.8	U J3	5.0	1.8	ug/L			10/12/23 15:36	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/12/23 15:36	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/12/23 15:36	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/12/23 15:36	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/12/23 15:36	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/12/23 15:36	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/12/23 15:36	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/12/23 15:36	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/12/23 15:36	1

Client Sample ID: LC34-DPT0966-013.0-20231005

Lab Sample ID: 670-28220-8

Date Collected: 10/05/23 15:45
Matrix: Water
Date Received: 10/07/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/12/23 15:36	1
Acetone	3.7	U	10	3.7	ug/L			10/12/23 15:36	1
Benzene	0.27	U	1.0	0.27	ug/L			10/12/23 15:36	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/12/23 15:36	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/12/23 15:36	1
Bromomethane	3.7	U J3	5.0	3.7	ug/L			10/12/23 15:36	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/12/23 15:36	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/12/23 15:36	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/12/23 15:36	1
Chloroethane	4.6	U J3	5.0	4.6	ug/L			10/12/23 15:36	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/12/23 15:36	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/12/23 15:36	1
cis-1,2-Dichloroethene	**1.7**		1.0	0.25	ug/L			10/12/23 15:36	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/12/23 15:36	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/12/23 15:36	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/12/23 15:36	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/12/23 15:36	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/12/23 15:36	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/12/23 15:36	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/12/23 15:36	1
Methyl acetate	3.2	U J3	5.0	3.2	ug/L			10/12/23 15:36	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/12/23 15:36	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/12/23 15:36	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/12/23 15:36	1
Styrene	0.27	U	1.0	0.27	ug/L			10/12/23 15:36	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/12/23 15:36	1
Toluene	0.25	U	1.0	0.25	ug/L			10/12/23 15:36	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/12/23 15:36	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/12/23 15:36	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/12/23 15:36	1
Trichlorofluoromethane	0.33	U J3	1.0	0.33	ug/L			10/12/23 15:36	1
Vinyl chloride	**27**		1.0	0.40	ug/L			10/12/23 15:36	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/12/23 15:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 124*		*10/12/23 15:36*	*1*
4-Bromofluorobenzene (Surr)	*80*		*70 - 130*		*10/12/23 15:36*	*1*
Dibromofluoromethane (Surr)	*111*		*70 - 130*		*10/12/23 15:36*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*10/12/23 15:36*	*1*

Client Sample ID: LC34-DPT0966-018.0-20231005

Lab Sample ID: 670-28220-9

Date Collected: 10/05/23 16:00
Matrix: Water
Date Received: 10/07/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/12/23 15:59	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/12/23 15:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/12/23 15:59	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/12/23 15:59	1

Client Sample ID: LC34-DPT0966-018.0-20231005
Date Collected: 10/05/23 16:00
Date Received: 10/07/23 08:00

Lab Sample ID: 670-28220-9
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/12/23 15:59	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/12/23 15:59	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/12/23 15:59	1
1,2-Dibromo-3-Chloropropane	1.8	U J3	5.0	1.8	ug/L			10/12/23 15:59	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/12/23 15:59	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/12/23 15:59	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/12/23 15:59	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/12/23 15:59	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/12/23 15:59	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/12/23 15:59	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/12/23 15:59	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/12/23 15:59	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/12/23 15:59	1
Acetone	3.7	U	10	3.7	ug/L			10/12/23 15:59	1
Benzene	0.27	U	1.0	0.27	ug/L			10/12/23 15:59	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/12/23 15:59	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/12/23 15:59	1
Bromomethane	3.7	U J3	5.0	3.7	ug/L			10/12/23 15:59	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/12/23 15:59	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/12/23 15:59	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/12/23 15:59	1
Chloroethane	4.6	U J3	5.0	4.6	ug/L			10/12/23 15:59	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/12/23 15:59	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/12/23 15:59	1
cis-1,2-Dichloroethene	**3.8**		1.0	0.25	ug/L			10/12/23 15:59	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/12/23 15:59	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/12/23 15:59	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/12/23 15:59	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/12/23 15:59	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/12/23 15:59	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/12/23 15:59	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/12/23 15:59	1
Methyl acetate	3.2	U J3	5.0	3.2	ug/L			10/12/23 15:59	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/12/23 15:59	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/12/23 15:59	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/12/23 15:59	1
Styrene	0.27	U	1.0	0.27	ug/L			10/12/23 15:59	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/12/23 15:59	1
Toluene	0.25	U	1.0	0.25	ug/L			10/12/23 15:59	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/12/23 15:59	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/12/23 15:59	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/12/23 15:59	1
Trichlorofluoromethane	0.33	U J3	1.0	0.33	ug/L			10/12/23 15:59	1
Vinyl chloride	**14**		1.0	0.40	ug/L			10/12/23 15:59	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/12/23 15:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 124*		*10/12/23 15:59*	*1*
4-Bromofluorobenzene (Surr)	*79*		*70 - 130*		*10/12/23 15:59*	*1*
Dibromofluoromethane (Surr)	*112*		*70 - 130*		*10/12/23 15:59*	*1*

Client Sample ID: LC34-DPT0966-018.0-20231005

Lab Sample ID: 670-28220-9

Date Collected: 10/05/23 16:00
Matrix: Water
Date Received: 10/07/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/12/23 15:59*	*1*

Client Sample ID: LC34-DPT0966-025.0-20231005

Lab Sample ID: 670-28220-10

Date Collected: 10/05/23 16:20
Matrix: Water
Date Received: 10/07/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	4.2	U	20	4.2	ug/L			10/12/23 18:18	20
1,1,2,2-Tetrachloroethane	8.0	U	20	8.0	ug/L			10/12/23 18:18	20
1,1,2-Trichloro-1,2,2-trifluoroethane	4.6	U	20	4.6	ug/L			10/12/23 18:18	20
1,1,2-Trichloroethane	6.4	U	20	6.4	ug/L			10/12/23 18:18	20
1,1-Dichloroethane	6.6	U	20	6.6	ug/L			10/12/23 18:18	20
1,1-Dichloroethene	6.6	U	20	6.6	ug/L			10/12/23 18:18	20
1,2,4-Trichlorobenzene	11	U	100	11	ug/L			10/12/23 18:18	20
1,2-Dibromo-3-Chloropropane	36	U J3	100	36	ug/L			10/12/23 18:18	20
1,2-Dibromoethane (EDB)	6.6	U	20	6.6	ug/L			10/12/23 18:18	20
1,2-Dichlorobenzene	6.2	U	20	6.2	ug/L			10/12/23 18:18	20
1,2-Dichloroethane	5.0	U	20	5.0	ug/L			10/12/23 18:18	20
1,2-Dichloropropane	4.4	U	20	4.4	ug/L			10/12/23 18:18	20
1,3-Dichlorobenzene	6.2	U	20	6.2	ug/L			10/12/23 18:18	20
1,4-Dichlorobenzene	6.2	U	20	6.2	ug/L			10/12/23 18:18	20
2-Butanone (MEK)	130	U	200	130	ug/L			10/12/23 18:18	20
2-Hexanone	64	U	200	64	ug/L			10/12/23 18:18	20
4-Methyl-2-pentanone	54	U	200	54	ug/L			10/12/23 18:18	20
Acetone	74	U	200	74	ug/L			10/12/23 18:18	20
Benzene	5.4	U	20	5.4	ug/L			10/12/23 18:18	20
Bromodichloromethane	5.0	U	20	5.0	ug/L			10/12/23 18:18	20
Bromoform	12	U	20	12	ug/L			10/12/23 18:18	20
Bromomethane	74	U J3	100	74	ug/L			10/12/23 18:18	20
Carbon disulfide	8.6	U	40	8.6	ug/L			10/12/23 18:18	20
Carbon tetrachloride	6.0	U	20	6.0	ug/L			10/12/23 18:18	20
Chlorobenzene	3.0	U	20	3.0	ug/L			10/12/23 18:18	20
Chloroethane	92	U J3	100	92	ug/L			10/12/23 18:18	20
Chloroform	5.4	U	20	5.4	ug/L			10/12/23 18:18	20
Chloromethane	11	U	20	11	ug/L			10/12/23 18:18	20
cis-1,2-Dichloroethene	**52**		20	5.0	ug/L			10/12/23 18:18	20
cis-1,3-Dichloropropene	5.2	U	20	5.2	ug/L			10/12/23 18:18	20
Cyclohexane	5.6	U	20	5.6	ug/L			10/12/23 18:18	20
Dibromochloromethane	7.8	U	20	7.8	ug/L			10/12/23 18:18	20
Dichlorodifluoromethane	7.2	U	20	7.2	ug/L			10/12/23 18:18	20
Ethylbenzene	4.0	U	20	4.0	ug/L			10/12/23 18:18	20
Isopropylbenzene	5.2	U	20	5.2	ug/L			10/12/23 18:18	20
m,p-Xylenes	9.8	U	20	9.8	ug/L			10/12/23 18:18	20
Methyl acetate	64	U J3	100	64	ug/L			10/12/23 18:18	20
Methyl tert-butyl ether	16	U	100	16	ug/L			10/12/23 18:18	20
Methylene Chloride	64	U	100	64	ug/L			10/12/23 18:18	20
o-Xylene	5.2	U	20	5.2	ug/L			10/12/23 18:18	20
Styrene	5.4	U	20	5.4	ug/L			10/12/23 18:18	20

Client Sample ID: LC34-DPT0966-025.0-20231005

Lab Sample ID: 670-28220-10

Date Collected: 10/05/23 16:20

Matrix: Water

Date Received: 10/07/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	7.0	U	20	7.0	ug/L			10/12/23 18:18	20
Toluene	5.0	U	20	5.0	ug/L			10/12/23 18:18	20
trans-1,2-Dichloroethene	**6.9**	**I**	20	6.8	ug/L			10/12/23 18:18	20
trans-1,3-Dichloropropene	4.6	U	20	4.6	ug/L			10/12/23 18:18	20
Trichloroethene	4.0	U	20	4.0	ug/L			10/12/23 18:18	20
Trichlorofluoromethane	6.6	U J3	20	6.6	ug/L			10/12/23 18:18	20
Vinyl chloride	**890**		20	8.0	ug/L			10/12/23 18:18	20
Xylenes, Total	4.6	U	20	4.6	ug/L			10/12/23 18:18	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 124*		*10/12/23 18:18*	*20*
4-Bromofluorobenzene (Surr)	*78*		*70 - 130*		*10/12/23 18:18*	*20*
Dibromofluoromethane (Surr)	*110*		*70 - 130*		*10/12/23 18:18*	*20*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/12/23 18:18*	*20*

Client Sample ID: LC34-DPT0966-034.0-20231005

Lab Sample ID: 670-28220-11

Date Collected: 10/05/23 16:40

Matrix: Water

Date Received: 10/07/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.42	U	2.0	0.42	ug/L			10/14/23 16:29	2
1,1,2,2-Tetrachloroethane	0.80	U	2.0	0.80	ug/L			10/14/23 16:29	2
1,1,2-Trichloro-1,2,2-trifluoroethane	0.46	U	2.0	0.46	ug/L			10/14/23 16:29	2
1,1,2-Trichloroethane	0.64	U	2.0	0.64	ug/L			10/14/23 16:29	2
1,1-Dichloroethane	0.66	U	2.0	0.66	ug/L			10/14/23 16:29	2
1,1-Dichloroethene	0.66	U	2.0	0.66	ug/L			10/14/23 16:29	2
1,2,4-Trichlorobenzene	1.1	U	10	1.1	ug/L			10/14/23 16:29	2
1,2-Dibromo-3-Chloropropane	3.6	U	10	3.6	ug/L			10/14/23 16:29	2
1,2-Dibromoethane (EDB)	0.66	U	2.0	0.66	ug/L			10/14/23 16:29	2
1,2-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/14/23 16:29	2
1,2-Dichloroethane	0.50	U	2.0	0.50	ug/L			10/14/23 16:29	2
1,2-Dichloropropane	0.44	U	2.0	0.44	ug/L			10/14/23 16:29	2
1,3-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/14/23 16:29	2
1,4-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/14/23 16:29	2
2-Butanone (MEK)	13	U	20	13	ug/L			10/14/23 16:29	2
2-Hexanone	6.4	U	20	6.4	ug/L			10/14/23 16:29	2
4-Methyl-2-pentanone	5.4	U	20	5.4	ug/L			10/14/23 16:29	2
Acetone	7.4	U	20	7.4	ug/L			10/14/23 16:29	2
Benzene	0.54	U	2.0	0.54	ug/L			10/14/23 16:29	2
Bromodichloromethane	0.50	U	2.0	0.50	ug/L			10/14/23 16:29	2
Bromoform	1.2	U	2.0	1.2	ug/L			10/14/23 16:29	2
Bromomethane	7.4	U	10	7.4	ug/L			10/14/23 16:29	2
Carbon disulfide	**2.0**	**I**	4.0	0.86	ug/L			10/14/23 16:29	2
Carbon tetrachloride	0.60	U	2.0	0.60	ug/L			10/14/23 16:29	2
Chlorobenzene	0.30	U	2.0	0.30	ug/L			10/14/23 16:29	2
Chloroethane	9.2	U	10	9.2	ug/L			10/14/23 16:29	2
Chloroform	0.54	U	2.0	0.54	ug/L			10/14/23 16:29	2
Chloromethane	1.1	U	2.0	1.1	ug/L			10/14/23 16:29	2
cis-1,2-Dichloroethene	**8.5**		2.0	0.50	ug/L			10/14/23 16:29	2

Client Sample ID: LC34-DPT0966-034.0-20231005

Lab Sample ID: 670-28220-11

Date Collected: 10/05/23 16:40

Matrix: Water

Date Received: 10/07/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	0.52	U	2.0	0.52	ug/L			10/14/23 16:29	2
Cyclohexane	0.56	U	2.0	0.56	ug/L			10/14/23 16:29	2
Dibromochloromethane	0.78	U	2.0	0.78	ug/L			10/14/23 16:29	2
Dichlorodifluoromethane	0.72	U	2.0	0.72	ug/L			10/14/23 16:29	2
Ethylbenzene	0.40	U	2.0	0.40	ug/L			10/14/23 16:29	2
Isopropylbenzene	0.52	U	2.0	0.52	ug/L			10/14/23 16:29	2
m,p-Xylenes	0.98	U	2.0	0.98	ug/L			10/14/23 16:29	2
Methyl acetate	6.4	U	10	6.4	ug/L			10/14/23 16:29	2
Methyl tert-butyl ether	1.6	U	10	1.6	ug/L			10/14/23 16:29	2
Methylene Chloride	6.4	U	10	6.4	ug/L			10/14/23 16:29	2
o-Xylene	0.52	U	2.0	0.52	ug/L			10/14/23 16:29	2
Styrene	0.54	U	2.0	0.54	ug/L			10/14/23 16:29	2
Tetrachloroethene	0.70	U	2.0	0.70	ug/L			10/14/23 16:29	2
Toluene	0.50	U	2.0	0.50	ug/L			10/14/23 16:29	2
trans-1,2-Dichloroethene	**19**		2.0	0.68	ug/L			10/14/23 16:29	2
trans-1,3-Dichloropropene	0.46	U	2.0	0.46	ug/L			10/14/23 16:29	2
Trichloroethene	0.40	U	2.0	0.40	ug/L			10/14/23 16:29	2
Trichlorofluoromethane	0.66	U J3	2.0	0.66	ug/L			10/14/23 16:29	2
Xylenes, Total	0.46	U	2.0	0.46	ug/L			10/14/23 16:29	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 124*		*10/14/23 16:29*	*2*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*10/14/23 16:29*	*2*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*10/14/23 16:29*	*2*
Toluene-d8 (Surr)	*99*		*70 - 130*		*10/14/23 16:29*	*2*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	**4800**		50	20	ug/L			10/14/23 18:44	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 124*		*10/14/23 18:44*	*50*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*10/14/23 18:44*	*50*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*10/14/23 18:44*	*50*
Toluene-d8 (Surr)	*97*		*70 - 130*		*10/14/23 18:44*	*50*

Client Sample ID: LC34-DPT0966-038.0-20231005

Lab Sample ID: 670-28220-12

Date Collected: 10/05/23 17:00

Matrix: Water

Date Received: 10/07/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.3	U	25	5.3	ug/L			10/12/23 14:59	25
1,1,2,2-Tetrachloroethane	10	U	25	10	ug/L			10/12/23 14:59	25
1,1,2-Trichloro-1,2,2-trifluoroethane	5.8	U	25	5.8	ug/L			10/12/23 14:59	25
1,1,2-Trichloroethane	8.0	U	25	8.0	ug/L			10/12/23 14:59	25
1,1-Dichloroethane	8.3	U	25	8.3	ug/L			10/12/23 14:59	25
1,1-Dichloroethene	8.3	U	25	8.3	ug/L			10/12/23 14:59	25
1,2,4-Trichlorobenzene	13	U	130	13	ug/L			10/12/23 14:59	25
1,2-Dibromo-3-Chloropropane	45	U	130	45	ug/L			10/12/23 14:59	25
1,2-Dibromoethane (EDB)	8.3	U	25	8.3	ug/L			10/12/23 14:59	25

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28220-1
SDG: 670-28220

Client Sample ID: LC34-DPT0966-038.0-20231005
Date Collected: 10/05/23 17:00
Date Received: 10/07/23 08:00

Lab Sample ID: 670-28220-12
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	7.8	U	25	7.8	ug/L			10/12/23 14:59	25
1,2-Dichloroethane	6.3	U	25	6.3	ug/L			10/12/23 14:59	25
1,2-Dichloropropane	5.5	U	25	5.5	ug/L			10/12/23 14:59	25
1,3-Dichlorobenzene	7.8	U	25	7.8	ug/L			10/12/23 14:59	25
1,4-Dichlorobenzene	7.8	U	25	7.8	ug/L			10/12/23 14:59	25
2-Butanone (MEK)	160	U	250	160	ug/L			10/12/23 14:59	25
2-Hexanone	80	U	250	80	ug/L			10/12/23 14:59	25
4-Methyl-2-pentanone	68	U	250	68	ug/L			10/12/23 14:59	25
Acetone	93	U	250	93	ug/L			10/12/23 14:59	25
Benzene	6.8	U	25	6.8	ug/L			10/12/23 14:59	25
Bromodichloromethane	6.3	U	25	6.3	ug/L			10/12/23 14:59	25
Bromoform	15	U	25	15	ug/L			10/12/23 14:59	25
Bromomethane	93	U	130	93	ug/L			10/12/23 14:59	25
Carbon disulfide	11	U	50	11	ug/L			10/12/23 14:59	25
Carbon tetrachloride	7.5	U	25	7.5	ug/L			10/12/23 14:59	25
Chlorobenzene	3.8	U	25	3.8	ug/L			10/12/23 14:59	25
Chloroethane	120	U	130	120	ug/L			10/12/23 14:59	25
Chloroform	6.8	U	25	6.8	ug/L			10/12/23 14:59	25
Chloromethane	14	U	25	14	ug/L			10/12/23 14:59	25
cis-1,2-Dichloroethene	**11**	**I**	25	6.3	ug/L			10/12/23 14:59	25
cis-1,3-Dichloropropene	6.5	U	25	6.5	ug/L			10/12/23 14:59	25
Cyclohexane	7.0	U	25	7.0	ug/L			10/12/23 14:59	25
Dibromochloromethane	9.8	U	25	9.8	ug/L			10/12/23 14:59	25
Dichlorodifluoromethane	9.0	U	25	9.0	ug/L			10/12/23 14:59	25
Ethylbenzene	5.0	U	25	5.0	ug/L			10/12/23 14:59	25
Isopropylbenzene	6.5	U	25	6.5	ug/L			10/12/23 14:59	25
m,p-Xylenes	12	U	25	12	ug/L			10/12/23 14:59	25
Methyl acetate	80	U	130	80	ug/L			10/12/23 14:59	25
Methyl tert-butyl ether	20	U	130	20	ug/L			10/12/23 14:59	25
Methylene Chloride	80	U	130	80	ug/L			10/12/23 14:59	25
o-Xylene	6.5	U	25	6.5	ug/L			10/12/23 14:59	25
Styrene	6.8	U	25	6.8	ug/L			10/12/23 14:59	25
Tetrachloroethene	8.8	U	25	8.8	ug/L			10/12/23 14:59	25
Toluene	6.3	U	25	6.3	ug/L			10/12/23 14:59	25
trans-1,2-Dichloroethene	8.5	U	25	8.5	ug/L			10/12/23 14:59	25
trans-1,3-Dichloropropene	5.8	U	25	5.8	ug/L			10/12/23 14:59	25
Trichloroethene	5.0	U	25	5.0	ug/L			10/12/23 14:59	25
Trichlorofluoromethane	8.3	U J3	25	8.3	ug/L			10/12/23 14:59	25
Vinyl chloride	**2400**		25	10	ug/L			10/12/23 14:59	25
Xylenes, Total	5.8	U	25	5.8	ug/L			10/12/23 14:59	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 124*		*10/12/23 14:59*	*25*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*10/12/23 14:59*	*25*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*10/12/23 14:59*	*25*
Toluene-d8 (Surr)	*98*		*70 - 130*		*10/12/23 14:59*	*25*

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28220-1
SDG: 670-28220

Client Sample ID: LC34-DPT0967-008.0-20231006
Date Collected: 10/06/23 08:15
Date Received: 10/07/23 08:00

Lab Sample ID: 670-28220-13
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/12/23 16:15	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/12/23 16:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/12/23 16:15	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/12/23 16:15	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/12/23 16:15	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/12/23 16:15	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/12/23 16:15	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/12/23 16:15	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/12/23 16:15	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/12/23 16:15	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/12/23 16:15	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/12/23 16:15	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/12/23 16:15	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/12/23 16:15	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/12/23 16:15	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/12/23 16:15	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/12/23 16:15	1
Acetone	3.7	U	10	3.7	ug/L			10/12/23 16:15	1
Benzene	0.27	U	1.0	0.27	ug/L			10/12/23 16:15	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/12/23 16:15	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/12/23 16:15	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/12/23 16:15	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/12/23 16:15	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/12/23 16:15	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/12/23 16:15	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/12/23 16:15	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/12/23 16:15	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/12/23 16:15	1
cis-1,2-Dichloroethene	**0.38**	**I**	1.0	0.25	ug/L			10/12/23 16:15	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/12/23 16:15	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/12/23 16:15	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/12/23 16:15	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/12/23 16:15	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/12/23 16:15	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/12/23 16:15	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/12/23 16:15	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/12/23 16:15	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/12/23 16:15	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/12/23 16:15	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/12/23 16:15	1
Styrene	0.27	U	1.0	0.27	ug/L			10/12/23 16:15	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/12/23 16:15	1
Toluene	0.25	U	1.0	0.25	ug/L			10/12/23 16:15	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/12/23 16:15	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/12/23 16:15	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/12/23 16:15	1
Trichlorofluoromethane	0.33	U J3	1.0	0.33	ug/L			10/12/23 16:15	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/12/23 16:15	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/12/23 16:15	1

Client Sample ID: LC34-DPT0967-008.0-20231006

Lab Sample ID: 670-28220-13

Date Collected: 10/06/23 08:15
Matrix: Water
Date Received: 10/07/23 08:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 124*		*10/12/23 16:15*	*1*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*10/12/23 16:15*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*10/12/23 16:15*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*10/12/23 16:15*	*1*

Client Sample ID: LC34-DPT0967-013.0-20231006

Lab Sample ID: 670-28220-14

Date Collected: 10/06/23 08:30
Matrix: Water
Date Received: 10/07/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/12/23 16:34	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/12/23 16:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/12/23 16:34	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/12/23 16:34	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/12/23 16:34	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/12/23 16:34	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/12/23 16:34	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/12/23 16:34	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/12/23 16:34	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/12/23 16:34	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/12/23 16:34	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/12/23 16:34	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/12/23 16:34	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/12/23 16:34	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/12/23 16:34	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/12/23 16:34	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/12/23 16:34	1
Acetone	3.7	U	10	3.7	ug/L			10/12/23 16:34	1
Benzene	0.27	U	1.0	0.27	ug/L			10/12/23 16:34	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/12/23 16:34	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/12/23 16:34	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/12/23 16:34	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/12/23 16:34	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/12/23 16:34	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/12/23 16:34	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/12/23 16:34	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/12/23 16:34	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/12/23 16:34	1
cis-1,2-Dichloroethene	**23**		1.0	0.25	ug/L			10/12/23 16:34	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/12/23 16:34	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/12/23 16:34	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/12/23 16:34	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/12/23 16:34	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/12/23 16:34	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/12/23 16:34	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/12/23 16:34	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/12/23 16:34	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/12/23 16:34	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/12/23 16:34	1

Client Sample ID: LC34-DPT0967-013.0-20231006

Lab Sample ID: 670-28220-14

Date Collected: 10/06/23 08:30
Matrix: Water
Date Received: 10/07/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	0.26	U	1.0	0.26	ug/L			10/12/23 16:34	1
Styrene	0.27	U	1.0	0.27	ug/L			10/12/23 16:34	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/12/23 16:34	1
Toluene	0.25	U	1.0	0.25	ug/L			10/12/23 16:34	1
trans-1,2-Dichloroethene	**0.59**	**I**	1.0	0.34	ug/L			10/12/23 16:34	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/12/23 16:34	1
Trichloroethene	**0.58**	**I**	1.0	0.20	ug/L			10/12/23 16:34	1
Trichlorofluoromethane	0.33	U J3	1.0	0.33	ug/L			10/12/23 16:34	1
Vinyl chloride	**23**		1.0	0.40	ug/L			10/12/23 16:34	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/12/23 16:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 124*		*10/12/23 16:34*	*1*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*10/12/23 16:34*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*10/12/23 16:34*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*10/12/23 16:34*	*1*

Client Sample ID: LC34-DPT0967-018.0-20231006

Lab Sample ID: 670-28220-15

Date Collected: 10/06/23 08:45
Matrix: Water
Date Received: 10/07/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/12/23 16:53	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/12/23 16:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/12/23 16:53	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/12/23 16:53	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/12/23 16:53	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/12/23 16:53	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/12/23 16:53	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/12/23 16:53	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/12/23 16:53	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/12/23 16:53	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/12/23 16:53	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/12/23 16:53	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/12/23 16:53	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/12/23 16:53	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/12/23 16:53	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/12/23 16:53	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/12/23 16:53	1
Acetone	3.7	U	10	3.7	ug/L			10/12/23 16:53	1
Benzene	0.27	U	1.0	0.27	ug/L			10/12/23 16:53	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/12/23 16:53	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/12/23 16:53	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/12/23 16:53	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/12/23 16:53	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/12/23 16:53	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/12/23 16:53	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/12/23 16:53	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/12/23 16:53	1

Client Sample ID: LC34-DPT0967-018.0-20231006

Lab Sample ID: 670-28220-15

Date Collected: 10/06/23 08:45

Matrix: Water

Date Received: 10/07/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	0.54	U	1.0	0.54	ug/L			10/12/23 16:53	1
cis-1,2-Dichloroethene	**69**		1.0	0.25	ug/L			10/12/23 16:53	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/12/23 16:53	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/12/23 16:53	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/12/23 16:53	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/12/23 16:53	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/12/23 16:53	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/12/23 16:53	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/12/23 16:53	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/12/23 16:53	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/12/23 16:53	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/12/23 16:53	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/12/23 16:53	1
Styrene	0.27	U	1.0	0.27	ug/L			10/12/23 16:53	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/12/23 16:53	1
Toluene	0.25	U	1.0	0.25	ug/L			10/12/23 16:53	1
trans-1,2-Dichloroethene	**1.7**		1.0	0.34	ug/L			10/12/23 16:53	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/12/23 16:53	1
Trichloroethene	**0.28**	**I**	1.0	0.20	ug/L			10/12/23 16:53	1
Trichlorofluoromethane	0.33	U J3	1.0	0.33	ug/L			10/12/23 16:53	1
Vinyl chloride	**82**		1.0	0.40	ug/L			10/12/23 16:53	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/12/23 16:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 124*		*10/12/23 16:53*	*1*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*10/12/23 16:53*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*10/12/23 16:53*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*10/12/23 16:53*	*1*

Client Sample ID: LC34-DPT0967-025.0-20231006

Lab Sample ID: 670-28220-16

Date Collected: 10/06/23 09:00

Matrix: Water

Date Received: 10/07/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2.1	U	10	2.1	ug/L			10/12/23 20:49	10
1,1,2,2-Tetrachloroethane	4.0	U	10	4.0	ug/L			10/12/23 20:49	10
1,1,2-Trichloro-1,2,2-trifluoroethane	2.3	U	10	2.3	ug/L			10/12/23 20:49	10
1,1,2-Trichloroethane	3.2	U	10	3.2	ug/L			10/12/23 20:49	10
1,1-Dichloroethane	3.3	U	10	3.3	ug/L			10/12/23 20:49	10
1,1-Dichloroethene	3.3	U	10	3.3	ug/L			10/12/23 20:49	10
1,2,4-Trichlorobenzene	5.3	U	50	5.3	ug/L			10/12/23 20:49	10
1,2-Dibromo-3-Chloropropane	18	U	50	18	ug/L			10/12/23 20:49	10
1,2-Dibromoethane (EDB)	3.3	U	10	3.3	ug/L			10/12/23 20:49	10
1,2-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/12/23 20:49	10
1,2-Dichloroethane	2.5	U	10	2.5	ug/L			10/12/23 20:49	10
1,2-Dichloropropane	2.2	U	10	2.2	ug/L			10/12/23 20:49	10
1,3-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/12/23 20:49	10
1,4-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/12/23 20:49	10
2-Butanone (MEK)	64	U	100	64	ug/L			10/12/23 20:49	10

Client Sample ID: LC34-DPT0967-025.0-20231006

Lab Sample ID: 670-28220-16

Date Collected: 10/06/23 09:00
Matrix: Water
Date Received: 10/07/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	32	U	100	32	ug/L			10/12/23 20:49	10
4-Methyl-2-pentanone	27	U	100	27	ug/L			10/12/23 20:49	10
Acetone	37	U	100	37	ug/L			10/12/23 20:49	10
Benzene	2.7	U	10	2.7	ug/L			10/12/23 20:49	10
Bromodichloromethane	2.5	U	10	2.5	ug/L			10/12/23 20:49	10
Bromoform	5.9	U	10	5.9	ug/L			10/12/23 20:49	10
Bromomethane	37	U	50	37	ug/L			10/12/23 20:49	10
Carbon disulfide	4.3	U	20	4.3	ug/L			10/12/23 20:49	10
Carbon tetrachloride	3.0	U	10	3.0	ug/L			10/12/23 20:49	10
Chlorobenzene	1.5	U	10	1.5	ug/L			10/12/23 20:49	10
Chloroethane	46	U	50	46	ug/L			10/12/23 20:49	10
Chloroform	2.7	U	10	2.7	ug/L			10/12/23 20:49	10
Chloromethane	5.4	U	10	5.4	ug/L			10/12/23 20:49	10
cis-1,2-Dichloroethene	**1400**		10	2.5	ug/L			10/12/23 20:49	10
cis-1,3-Dichloropropene	2.6	U	10	2.6	ug/L			10/12/23 20:49	10
Cyclohexane	2.8	U	10	2.8	ug/L			10/12/23 20:49	10
Dibromochloromethane	3.9	U	10	3.9	ug/L			10/12/23 20:49	10
Dichlorodifluoromethane	3.6	U	10	3.6	ug/L			10/12/23 20:49	10
Ethylbenzene	2.0	U	10	2.0	ug/L			10/12/23 20:49	10
Isopropylbenzene	2.6	U	10	2.6	ug/L			10/12/23 20:49	10
m,p-Xylenes	4.9	U	10	4.9	ug/L			10/12/23 20:49	10
Methyl acetate	32	U	50	32	ug/L			10/12/23 20:49	10
Methyl tert-butyl ether	8.1	U	50	8.1	ug/L			10/12/23 20:49	10
Methylene Chloride	32	U	50	32	ug/L			10/12/23 20:49	10
o-Xylene	2.6	U	10	2.6	ug/L			10/12/23 20:49	10
Styrene	2.7	U	10	2.7	ug/L			10/12/23 20:49	10
Tetrachloroethene	3.5	U	10	3.5	ug/L			10/12/23 20:49	10
Toluene	2.5	U	10	2.5	ug/L			10/12/23 20:49	10
trans-1,2-Dichloroethene	**26**		10	3.4	ug/L			10/12/23 20:49	10
trans-1,3-Dichloropropene	2.3	U	10	2.3	ug/L			10/12/23 20:49	10
Trichloroethene	2.0	U	10	2.0	ug/L			10/12/23 20:49	10
Trichlorofluoromethane	3.3	U J3	10	3.3	ug/L			10/12/23 20:49	10
Vinyl chloride	**1300**		10	4.0	ug/L			10/12/23 20:49	10
Xylenes, Total	2.3	U	10	2.3	ug/L			10/12/23 20:49	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 124*		*10/12/23 20:49*	*10*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*10/12/23 20:49*	*10*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*10/12/23 20:49*	*10*
Toluene-d8 (Surr)	*97*		*70 - 130*		*10/12/23 20:49*	*10*

Client Sample ID: LC34-DPT0967-034.0-20231006

Lab Sample ID: 670-28220-17

Date Collected: 10/06/23 09:20
Matrix: Water
Date Received: 10/07/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.3	U	25	5.3	ug/L			10/12/23 20:06	25
1,1,2,2-Tetrachloroethane	10	U	25	10	ug/L			10/12/23 20:06	25
1,1,2-Trichloro-1,2,2-trifluoroethane	5.8	U	25	5.8	ug/L			10/12/23 20:06	25

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28220-1
SDG: 670-28220

Client Sample ID: LC34-DPT0967-034.0-20231006
Date Collected: 10/06/23 09:20
Date Received: 10/07/23 08:00

Lab Sample ID: 670-28220-17
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	8.0	U	25	8.0	ug/L			10/12/23 20:06	25
1,1-Dichloroethane	8.3	U	25	8.3	ug/L			10/12/23 20:06	25
1,1-Dichloroethene	8.3	U	25	8.3	ug/L			10/12/23 20:06	25
1,2,4-Trichlorobenzene	13	U	130	13	ug/L			10/12/23 20:06	25
1,2-Dibromo-3-Chloropropane	45	U	130	45	ug/L			10/12/23 20:06	25
1,2-Dibromoethane (EDB)	8.3	U	25	8.3	ug/L			10/12/23 20:06	25
1,2-Dichlorobenzene	7.8	U	25	7.8	ug/L			10/12/23 20:06	25
1,2-Dichloroethane	6.3	U	25	6.3	ug/L			10/12/23 20:06	25
1,2-Dichloropropane	5.5	U	25	5.5	ug/L			10/12/23 20:06	25
1,3-Dichlorobenzene	7.8	U	25	7.8	ug/L			10/12/23 20:06	25
1,4-Dichlorobenzene	7.8	U	25	7.8	ug/L			10/12/23 20:06	25
2-Butanone (MEK)	160	U	250	160	ug/L			10/12/23 20:06	25
2-Hexanone	80	U	250	80	ug/L			10/12/23 20:06	25
4-Methyl-2-pentanone	68	U	250	68	ug/L			10/12/23 20:06	25
Acetone	93	U	250	93	ug/L			10/12/23 20:06	25
Benzene	6.8	U	25	6.8	ug/L			10/12/23 20:06	25
Bromodichloromethane	6.3	U	25	6.3	ug/L			10/12/23 20:06	25
Bromoform	15	U	25	15	ug/L			10/12/23 20:06	25
Bromomethane	93	U	130	93	ug/L			10/12/23 20:06	25
Carbon disulfide	11	U	50	11	ug/L			10/12/23 20:06	25
Carbon tetrachloride	7.5	U	25	7.5	ug/L			10/12/23 20:06	25
Chlorobenzene	3.8	U	25	3.8	ug/L			10/12/23 20:06	25
Chloroethane	120	U	130	120	ug/L			10/12/23 20:06	25
Chloroform	6.8	U	25	6.8	ug/L			10/12/23 20:06	25
Chloromethane	14	U	25	14	ug/L			10/12/23 20:06	25
cis-1,2-Dichloroethene	**2700**		25	6.3	ug/L			10/12/23 20:06	25
cis-1,3-Dichloropropene	6.5	U	25	6.5	ug/L			10/12/23 20:06	25
Cyclohexane	7.0	U	25	7.0	ug/L			10/12/23 20:06	25
Dibromochloromethane	9.8	U	25	9.8	ug/L			10/12/23 20:06	25
Dichlorodifluoromethane	9.0	U	25	9.0	ug/L			10/12/23 20:06	25
Ethylbenzene	5.0	U	25	5.0	ug/L			10/12/23 20:06	25
Isopropylbenzene	6.5	U	25	6.5	ug/L			10/12/23 20:06	25
m,p-Xylenes	12	U	25	12	ug/L			10/12/23 20:06	25
Methyl acetate	80	U	130	80	ug/L			10/12/23 20:06	25
Methyl tert-butyl ether	20	U	130	20	ug/L			10/12/23 20:06	25
Methylene Chloride	80	U	130	80	ug/L			10/12/23 20:06	25
o-Xylene	6.5	U	25	6.5	ug/L			10/12/23 20:06	25
Styrene	6.8	U	25	6.8	ug/L			10/12/23 20:06	25
Tetrachloroethene	8.8	U	25	8.8	ug/L			10/12/23 20:06	25
Toluene	6.3	U	25	6.3	ug/L			10/12/23 20:06	25
trans-1,2-Dichloroethene	**12**	**I**	25	8.5	ug/L			10/12/23 20:06	25
trans-1,3-Dichloropropene	5.8	U	25	5.8	ug/L			10/12/23 20:06	25
Trichloroethene	5.0	U	25	5.0	ug/L			10/12/23 20:06	25
Trichlorofluoromethane	8.3	U J3	25	8.3	ug/L			10/12/23 20:06	25
Vinyl chloride	**760**		25	10	ug/L			10/12/23 20:06	25
Xylenes, Total	5.8	U	25	5.8	ug/L			10/12/23 20:06	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 124*		*10/12/23 20:06*	*25*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*10/12/23 20:06*	*25*

Client Sample ID: LC34-DPT0967-034.0-20231006

Lab Sample ID: 670-28220-17

Date Collected: 10/06/23 09:20
Matrix: Water
Date Received: 10/07/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*10/12/23 20:06*	*25*
Toluene-d8 (Surr)	*97*		*70 - 130*		*10/12/23 20:06*	*25*

Client Sample ID: LC34-DPT0967-038.0-20231006

Lab Sample ID: 670-28220-18

Date Collected: 10/06/23 09:40
Matrix: Water
Date Received: 10/07/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	5.0	1.1	ug/L			10/12/23 21:10	5
1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	ug/L			10/12/23 21:10	5
1,1,2-Trichloro-1,2,2-trifluoroethane	1.2	U	5.0	1.2	ug/L			10/12/23 21:10	5
1,1,2-Trichloroethane	1.6	U	5.0	1.6	ug/L			10/12/23 21:10	5
1,1-Dichloroethane	1.7	U	5.0	1.7	ug/L			10/12/23 21:10	5
1,1-Dichloroethene	1.7	U	5.0	1.7	ug/L			10/12/23 21:10	5
1,2,4-Trichlorobenzene	2.7	U	25	2.7	ug/L			10/12/23 21:10	5
1,2-Dibromo-3-Chloropropane	9.0	U	25	9.0	ug/L			10/12/23 21:10	5
1,2-Dibromoethane (EDB)	1.7	U	5.0	1.7	ug/L			10/12/23 21:10	5
1,2-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/12/23 21:10	5
1,2-Dichloroethane	1.3	U	5.0	1.3	ug/L			10/12/23 21:10	5
1,2-Dichloropropane	1.1	U	5.0	1.1	ug/L			10/12/23 21:10	5
1,3-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/12/23 21:10	5
1,4-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/12/23 21:10	5
2-Butanone (MEK)	32	U	50	32	ug/L			10/12/23 21:10	5
2-Hexanone	16	U	50	16	ug/L			10/12/23 21:10	5
4-Methyl-2-pentanone	14	U	50	14	ug/L			10/12/23 21:10	5
Acetone	19	U	50	19	ug/L			10/12/23 21:10	5
Benzene	1.4	U	5.0	1.4	ug/L			10/12/23 21:10	5
Bromodichloromethane	1.3	U	5.0	1.3	ug/L			10/12/23 21:10	5
Bromoform	3.0	U	5.0	3.0	ug/L			10/12/23 21:10	5
Bromomethane	19	U	25	19	ug/L			10/12/23 21:10	5
Carbon disulfide	2.2	U	10	2.2	ug/L			10/12/23 21:10	5
Carbon tetrachloride	1.5	U	5.0	1.5	ug/L			10/12/23 21:10	5
Chlorobenzene	0.75	U	5.0	0.75	ug/L			10/12/23 21:10	5
Chloroethane	23	U	25	23	ug/L			10/12/23 21:10	5
Chloroform	1.4	U	5.0	1.4	ug/L			10/12/23 21:10	5
Chloromethane	2.7	U	5.0	2.7	ug/L			10/12/23 21:10	5
cis-1,2-Dichloroethene	**490**		5.0	1.3	ug/L			10/12/23 21:10	5
cis-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			10/12/23 21:10	5
Cyclohexane	1.4	U	5.0	1.4	ug/L			10/12/23 21:10	5
Dibromochloromethane	2.0	U	5.0	2.0	ug/L			10/12/23 21:10	5
Dichlorodifluoromethane	1.8	U	5.0	1.8	ug/L			10/12/23 21:10	5
Ethylbenzene	1.0	U	5.0	1.0	ug/L			10/12/23 21:10	5
Isopropylbenzene	1.3	U	5.0	1.3	ug/L			10/12/23 21:10	5
m,p-Xylenes	2.5	U	5.0	2.5	ug/L			10/12/23 21:10	5
Methyl acetate	16	U	25	16	ug/L			10/12/23 21:10	5
Methyl tert-butyl ether	4.1	U	25	4.1	ug/L			10/12/23 21:10	5
Methylene Chloride	16	U	25	16	ug/L			10/12/23 21:10	5
o-Xylene	1.3	U	5.0	1.3	ug/L			10/12/23 21:10	5

Client Sample ID: LC34-DPT0967-038.0-20231006

Lab Sample ID: 670-28220-18

Date Collected: 10/06/23 09:40
Matrix: Water
Date Received: 10/07/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	1.4	U	5.0	1.4	ug/L			10/12/23 21:10	5
Tetrachloroethene	1.8	U	5.0	1.8	ug/L			10/12/23 21:10	5
Toluene	1.3	U	5.0	1.3	ug/L			10/12/23 21:10	5
trans-1,2-Dichloroethene	1.7	U	5.0	1.7	ug/L			10/12/23 21:10	5
trans-1,3-Dichloropropene	1.2	U	5.0	1.2	ug/L			10/12/23 21:10	5
Trichloroethene	1.0	U	5.0	1.0	ug/L			10/12/23 21:10	5
Trichlorofluoromethane	1.7	U J3	5.0	1.7	ug/L			10/12/23 21:10	5
Vinyl chloride	14		5.0	2.0	ug/L			10/12/23 21:10	5
Xylenes, Total	1.2	U	5.0	1.2	ug/L			10/12/23 21:10	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 124*		*10/12/23 21:10*	*5*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*10/12/23 21:10*	*5*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*10/12/23 21:10*	*5*
Toluene-d8 (Surr)	*99*		*70 - 130*		*10/12/23 21:10*	*5*

Client Sample ID: LC34-DPT0968-008.0-20231006

Lab Sample ID: 670-28220-19

Date Collected: 10/06/23 10:35
Matrix: Water
Date Received: 10/07/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/12/23 17:12	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/12/23 17:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/12/23 17:12	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/12/23 17:12	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/12/23 17:12	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/12/23 17:12	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/12/23 17:12	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/12/23 17:12	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/12/23 17:12	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/12/23 17:12	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/12/23 17:12	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/12/23 17:12	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/12/23 17:12	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/12/23 17:12	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/12/23 17:12	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/12/23 17:12	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/12/23 17:12	1
Acetone	3.7	U	10	3.7	ug/L			10/12/23 17:12	1
Benzene	0.27	U	1.0	0.27	ug/L			10/12/23 17:12	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/12/23 17:12	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/12/23 17:12	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/12/23 17:12	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/12/23 17:12	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/12/23 17:12	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/12/23 17:12	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/12/23 17:12	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/12/23 17:12	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/12/23 17:12	1

Client Sample ID: LC34-DPT0968-008.0-20231006

Lab Sample ID: 670-28220-19

Date Collected: 10/06/23 10:35
Matrix: Water
Date Received: 10/07/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**1.6**		1.0	0.25	ug/L			10/12/23 17:12	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/12/23 17:12	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/12/23 17:12	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/12/23 17:12	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/12/23 17:12	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/12/23 17:12	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/12/23 17:12	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/12/23 17:12	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/12/23 17:12	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/12/23 17:12	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/12/23 17:12	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/12/23 17:12	1
Styrene	0.27	U	1.0	0.27	ug/L			10/12/23 17:12	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/12/23 17:12	1
Toluene	0.25	U	1.0	0.25	ug/L			10/12/23 17:12	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/12/23 17:12	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/12/23 17:12	1
Trichloroethene	**0.32**	**I**	1.0	0.20	ug/L			10/12/23 17:12	1
Trichlorofluoromethane	0.33	U J3	1.0	0.33	ug/L			10/12/23 17:12	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/12/23 17:12	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/12/23 17:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*60 - 124*		*10/12/23 17:12*	*1*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*10/12/23 17:12*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*10/12/23 17:12*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*10/12/23 17:12*	*1*

Client Sample ID: LC34-DPT0968-013.0-20231006

Lab Sample ID: 670-28220-20

Date Collected: 10/06/23 10:50
Matrix: Water
Date Received: 10/07/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/12/23 17:30	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/12/23 17:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/12/23 17:30	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/12/23 17:30	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/12/23 17:30	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/12/23 17:30	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/12/23 17:30	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/12/23 17:30	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/12/23 17:30	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/12/23 17:30	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/12/23 17:30	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/12/23 17:30	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/12/23 17:30	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/12/23 17:30	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/12/23 17:30	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/12/23 17:30	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28220-1
SDG: 670-28220

Client Sample ID: LC34-DPT0968-013.0-20231006

Lab Sample ID: 670-28220-20

Date Collected: 10/06/23 10:50
Date Received: 10/07/23 08:00

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/12/23 17:30	1
Acetone	3.7	U	10	3.7	ug/L			10/12/23 17:30	1
Benzene	0.27	U	1.0	0.27	ug/L			10/12/23 17:30	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/12/23 17:30	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/12/23 17:30	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/12/23 17:30	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/12/23 17:30	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/12/23 17:30	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/12/23 17:30	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/12/23 17:30	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/12/23 17:30	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/12/23 17:30	1
cis-1,2-Dichloroethene	**6.9**		1.0	0.25	ug/L			10/12/23 17:30	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/12/23 17:30	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/12/23 17:30	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/12/23 17:30	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/12/23 17:30	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/12/23 17:30	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/12/23 17:30	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/12/23 17:30	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/12/23 17:30	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/12/23 17:30	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/12/23 17:30	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/12/23 17:30	1
Styrene	0.27	U	1.0	0.27	ug/L			10/12/23 17:30	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/12/23 17:30	1
Toluene	0.25	U	1.0	0.25	ug/L			10/12/23 17:30	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/12/23 17:30	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/12/23 17:30	1
Trichloroethene	**1.2**		1.0	0.20	ug/L			10/12/23 17:30	1
Trichlorofluoromethane	0.33	U J3	1.0	0.33	ug/L			10/12/23 17:30	1
Vinyl chloride	**2.5**		1.0	0.40	ug/L			10/12/23 17:30	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/12/23 17:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 124*		*10/12/23 17:30*	*1*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*10/12/23 17:30*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*10/12/23 17:30*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*10/12/23 17:30*	*1*

Client Sample ID: LC34-DPT0968-018.0-20231006

Lab Sample ID: 670-28220-21

Date Collected: 10/06/23 11:05
Date Received: 10/07/23 08:00

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/12/23 17:49	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/12/23 17:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/12/23 17:49	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/12/23 17:49	1

Client Sample ID: LC34-DPT0968-018.0-20231006
Date Collected: 10/06/23 11:05
Date Received: 10/07/23 08:00

Lab Sample ID: 670-28220-21
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/12/23 17:49	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/12/23 17:49	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/12/23 17:49	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/12/23 17:49	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/12/23 17:49	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/12/23 17:49	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/12/23 17:49	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/12/23 17:49	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/12/23 17:49	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/12/23 17:49	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/12/23 17:49	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/12/23 17:49	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/12/23 17:49	1
Acetone	3.7	U	10	3.7	ug/L			10/12/23 17:49	1
Benzene	0.27	U	1.0	0.27	ug/L			10/12/23 17:49	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/12/23 17:49	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/12/23 17:49	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/12/23 17:49	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/12/23 17:49	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/12/23 17:49	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/12/23 17:49	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/12/23 17:49	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/12/23 17:49	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/12/23 17:49	1
cis-1,2-Dichloroethene	**72**		1.0	0.25	ug/L			10/12/23 17:49	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/12/23 17:49	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/12/23 17:49	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/12/23 17:49	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/12/23 17:49	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/12/23 17:49	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/12/23 17:49	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/12/23 17:49	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/12/23 17:49	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/12/23 17:49	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/12/23 17:49	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/12/23 17:49	1
Styrene	0.27	U	1.0	0.27	ug/L			10/12/23 17:49	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/12/23 17:49	1
Toluene	0.25	U	1.0	0.25	ug/L			10/12/23 17:49	1
trans-1,2-Dichloroethene	**1.3**		1.0	0.34	ug/L			10/12/23 17:49	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/12/23 17:49	1
Trichloroethene	**0.33**	**I**	1.0	0.20	ug/L			10/12/23 17:49	1
Trichlorofluoromethane	0.33	U J3	1.0	0.33	ug/L			10/12/23 17:49	1
Vinyl chloride	**18**		1.0	0.40	ug/L			10/12/23 17:49	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/12/23 17:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 124*		*10/12/23 17:49*	*1*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*		*10/12/23 17:49*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*10/12/23 17:49*	*1*

Client Sample ID: LC34-DPT0968-018.0-20231006

Lab Sample ID: 670-28220-21

Date Collected: 10/06/23 11:05
Matrix: Water
Date Received: 10/07/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		70 - 130		10/12/23 17:49	1

Client Sample ID: LC34-DPT0968-025.0-20231006

Lab Sample ID: 670-28220-22

Date Collected: 10/06/23 11:20
Matrix: Water
Date Received: 10/07/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.3	U	25	5.3	ug/L			10/12/23 19:45	25
1,1,2,2-Tetrachloroethane	10	U	25	10	ug/L			10/12/23 19:45	25
1,1,2-Trichloro-1,2,2-trifluoroethane	5.8	U	25	5.8	ug/L			10/12/23 19:45	25
1,1,2-Trichloroethane	8.0	U	25	8.0	ug/L			10/12/23 19:45	25
1,1-Dichloroethane	8.3	U	25	8.3	ug/L			10/12/23 19:45	25
1,1-Dichloroethene	8.3	U	25	8.3	ug/L			10/12/23 19:45	25
1,2,4-Trichlorobenzene	13	U	130	13	ug/L			10/12/23 19:45	25
1,2-Dibromo-3-Chloropropane	45	U	130	45	ug/L			10/12/23 19:45	25
1,2-Dibromoethane (EDB)	8.3	U	25	8.3	ug/L			10/12/23 19:45	25
1,2-Dichlorobenzene	7.8	U	25	7.8	ug/L			10/12/23 19:45	25
1,2-Dichloroethane	6.3	U	25	6.3	ug/L			10/12/23 19:45	25
1,2-Dichloropropane	5.5	U	25	5.5	ug/L			10/12/23 19:45	25
1,3-Dichlorobenzene	7.8	U	25	7.8	ug/L			10/12/23 19:45	25
1,4-Dichlorobenzene	7.8	U	25	7.8	ug/L			10/12/23 19:45	25
2-Butanone (MEK)	160	U	250	160	ug/L			10/12/23 19:45	25
2-Hexanone	80	U	250	80	ug/L			10/12/23 19:45	25
4-Methyl-2-pentanone	68	U	250	68	ug/L			10/12/23 19:45	25
Acetone	93	U	250	93	ug/L			10/12/23 19:45	25
Benzene	6.8	U	25	6.8	ug/L			10/12/23 19:45	25
Bromodichloromethane	6.3	U	25	6.3	ug/L			10/12/23 19:45	25
Bromoform	15	U	25	15	ug/L			10/12/23 19:45	25
Bromomethane	93	U	130	93	ug/L			10/12/23 19:45	25
Carbon disulfide	11	U	50	11	ug/L			10/12/23 19:45	25
Carbon tetrachloride	7.5	U	25	7.5	ug/L			10/12/23 19:45	25
Chlorobenzene	3.8	U	25	3.8	ug/L			10/12/23 19:45	25
Chloroethane	120	U	130	120	ug/L			10/12/23 19:45	25
Chloroform	6.8	U	25	6.8	ug/L			10/12/23 19:45	25
Chloromethane	14	U	25	14	ug/L			10/12/23 19:45	25
cis-1,2-Dichloroethene	**2300**		25	6.3	ug/L			10/12/23 19:45	25
cis-1,3-Dichloropropene	6.5	U	25	6.5	ug/L			10/12/23 19:45	25
Cyclohexane	7.0	U	25	7.0	ug/L			10/12/23 19:45	25
Dibromochloromethane	9.8	U	25	9.8	ug/L			10/12/23 19:45	25
Dichlorodifluoromethane	9.0	U	25	9.0	ug/L			10/12/23 19:45	25
Ethylbenzene	5.0	U	25	5.0	ug/L			10/12/23 19:45	25
Isopropylbenzene	6.5	U	25	6.5	ug/L			10/12/23 19:45	25
m,p-Xylenes	12	U	25	12	ug/L			10/12/23 19:45	25
Methyl acetate	80	U	130	80	ug/L			10/12/23 19:45	25
Methyl tert-butyl ether	20	U	130	20	ug/L			10/12/23 19:45	25
Methylene Chloride	80	U	130	80	ug/L			10/12/23 19:45	25
o-Xylene	6.5	U	25	6.5	ug/L			10/12/23 19:45	25
Styrene	6.8	U	25	6.8	ug/L			10/12/23 19:45	25

Client Sample ID: LC34-DPT0968-025.0-20231006

Lab Sample ID: 670-28220-22

Date Collected: 10/06/23 11:20

Matrix: Water

Date Received: 10/07/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	8.8	U	25	8.8	ug/L			10/12/23 19:45	25
Toluene	6.3	U	25	6.3	ug/L			10/12/23 19:45	25
trans-1,2-Dichloroethene	**39**		25	8.5	ug/L			10/12/23 19:45	25
trans-1,3-Dichloropropene	5.8	U	25	5.8	ug/L			10/12/23 19:45	25
Trichloroethene	5.0	U	25	5.0	ug/L			10/12/23 19:45	25
Trichlorofluoromethane	8.3	U J3	25	8.3	ug/L			10/12/23 19:45	25
Vinyl chloride	**1500**		25	10	ug/L			10/12/23 19:45	25
Xylenes, Total	5.8	U	25	5.8	ug/L			10/12/23 19:45	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 124*		*10/12/23 19:45*	*25*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*10/12/23 19:45*	*25*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*10/12/23 19:45*	*25*
Toluene-d8 (Surr)	*99*		*70 - 130*		*10/12/23 19:45*	*25*

Client Sample ID: LC34-DPT0968-034.0-20231006

Lab Sample ID: 670-28220-23

Date Collected: 10/06/23 11:35

Matrix: Water

Date Received: 10/07/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2.1	U	10	2.1	ug/L			10/12/23 20:28	10
1,1,2,2-Tetrachloroethane	4.0	U	10	4.0	ug/L			10/12/23 20:28	10
1,1,2-Trichloro-1,2,2-trifluoroethane	2.3	U	10	2.3	ug/L			10/12/23 20:28	10
1,1,2-Trichloroethane	3.2	U	10	3.2	ug/L			10/12/23 20:28	10
1,1-Dichloroethane	3.3	U	10	3.3	ug/L			10/12/23 20:28	10
1,1-Dichloroethene	3.3	U	10	3.3	ug/L			10/12/23 20:28	10
1,2,4-Trichlorobenzene	5.3	U	50	5.3	ug/L			10/12/23 20:28	10
1,2-Dibromo-3-Chloropropane	18	U	50	18	ug/L			10/12/23 20:28	10
1,2-Dibromoethane (EDB)	3.3	U	10	3.3	ug/L			10/12/23 20:28	10
1,2-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/12/23 20:28	10
1,2-Dichloroethane	2.5	U	10	2.5	ug/L			10/12/23 20:28	10
1,2-Dichloropropane	2.2	U	10	2.2	ug/L			10/12/23 20:28	10
1,3-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/12/23 20:28	10
1,4-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/12/23 20:28	10
2-Butanone (MEK)	64	U	100	64	ug/L			10/12/23 20:28	10
2-Hexanone	32	U	100	32	ug/L			10/12/23 20:28	10
4-Methyl-2-pentanone	27	U	100	27	ug/L			10/12/23 20:28	10
Acetone	37	U	100	37	ug/L			10/12/23 20:28	10
Benzene	2.7	U	10	2.7	ug/L			10/12/23 20:28	10
Bromodichloromethane	2.5	U	10	2.5	ug/L			10/12/23 20:28	10
Bromoform	5.9	U	10	5.9	ug/L			10/12/23 20:28	10
Bromomethane	37	U	50	37	ug/L			10/12/23 20:28	10
Carbon disulfide	4.3	U	20	4.3	ug/L			10/12/23 20:28	10
Carbon tetrachloride	3.0	U	10	3.0	ug/L			10/12/23 20:28	10
Chlorobenzene	1.5	U	10	1.5	ug/L			10/12/23 20:28	10
Chloroethane	46	U	50	46	ug/L			10/12/23 20:28	10
Chloroform	2.7	U	10	2.7	ug/L			10/12/23 20:28	10
Chloromethane	5.4	U	10	5.4	ug/L			10/12/23 20:28	10
cis-1,2-Dichloroethene	**1300**		10	2.5	ug/L			10/12/23 20:28	10

Client Sample ID: LC34-DPT0968-034.0-20231006

Lab Sample ID: 670-28220-23

Date Collected: 10/06/23 11:35
Matrix: Water
Date Received: 10/07/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	2.6	U	10	2.6	ug/L			10/12/23 20:28	10
Cyclohexane	2.8	U	10	2.8	ug/L			10/12/23 20:28	10
Dibromochloromethane	3.9	U	10	3.9	ug/L			10/12/23 20:28	10
Dichlorodifluoromethane	3.6	U	10	3.6	ug/L			10/12/23 20:28	10
Ethylbenzene	2.0	U	10	2.0	ug/L			10/12/23 20:28	10
Isopropylbenzene	2.6	U	10	2.6	ug/L			10/12/23 20:28	10
m,p-Xylenes	4.9	U	10	4.9	ug/L			10/12/23 20:28	10
Methyl acetate	32	U	50	32	ug/L			10/12/23 20:28	10
Methyl tert-butyl ether	8.1	U	50	8.1	ug/L			10/12/23 20:28	10
Methylene Chloride	32	U	50	32	ug/L			10/12/23 20:28	10
o-Xylene	2.6	U	10	2.6	ug/L			10/12/23 20:28	10
Styrene	2.7	U	10	2.7	ug/L			10/12/23 20:28	10
Tetrachloroethene	3.5	U	10	3.5	ug/L			10/12/23 20:28	10
Toluene	2.5	U	10	2.5	ug/L			10/12/23 20:28	10
trans-1,2-Dichloroethene	3.4	U	10	3.4	ug/L			10/12/23 20:28	10
trans-1,3-Dichloropropene	2.3	U	10	2.3	ug/L			10/12/23 20:28	10
Trichloroethene	2.0	U	10	2.0	ug/L			10/12/23 20:28	10
Trichlorofluoromethane	3.3	U J3	10	3.3	ug/L			10/12/23 20:28	10
Vinyl chloride	**150**		10	4.0	ug/L			10/12/23 20:28	10
Xylenes, Total	2.3	U	10	2.3	ug/L			10/12/23 20:28	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 124*		*10/12/23 20:28*	*10*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*10/12/23 20:28*	*10*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*10/12/23 20:28*	*10*
Toluene-d8 (Surr)	*97*		*70 - 130*		*10/12/23 20:28*	*10*

Client Sample ID: LC34-DPT0968-038.0-20231006

Lab Sample ID: 670-28220-24

Date Collected: 10/06/23 11:55
Matrix: Water
Date Received: 10/07/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/12/23 18:08	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/12/23 18:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/12/23 18:08	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/12/23 18:08	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/12/23 18:08	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/12/23 18:08	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/12/23 18:08	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/12/23 18:08	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/12/23 18:08	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/12/23 18:08	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/12/23 18:08	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/12/23 18:08	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/12/23 18:08	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/12/23 18:08	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/12/23 18:08	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/12/23 18:08	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/12/23 18:08	1

Client Sample ID: LC34-DPT0968-038.0-20231006

Lab Sample ID: 670-28220-24

Date Collected: 10/06/23 11:55
Matrix: Water
Date Received: 10/07/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	3.7	U	10	3.7	ug/L			10/12/23 18:08	1
Benzene	0.27	U	1.0	0.27	ug/L			10/12/23 18:08	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/12/23 18:08	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/12/23 18:08	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/12/23 18:08	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/12/23 18:08	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/12/23 18:08	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/12/23 18:08	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/12/23 18:08	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/12/23 18:08	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/12/23 18:08	1
cis-1,2-Dichloroethene	**48**		1.0	0.25	ug/L			10/12/23 18:08	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/12/23 18:08	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/12/23 18:08	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/12/23 18:08	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/12/23 18:08	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/12/23 18:08	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/12/23 18:08	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/12/23 18:08	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/12/23 18:08	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/12/23 18:08	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/12/23 18:08	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/12/23 18:08	1
Styrene	0.27	U	1.0	0.27	ug/L			10/12/23 18:08	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/12/23 18:08	1
Toluene	0.25	U	1.0	0.25	ug/L			10/12/23 18:08	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/12/23 18:08	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/12/23 18:08	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/12/23 18:08	1
Trichlorofluoromethane	0.33	U J3	1.0	0.33	ug/L			10/12/23 18:08	1
Vinyl chloride	**2.9**		1.0	0.40	ug/L			10/12/23 18:08	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/12/23 18:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 124*		*10/12/23 18:08*	*1*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*		*10/12/23 18:08*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*10/12/23 18:08*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*10/12/23 18:08*	*1*

Client Sample ID: LC34-DPT0969-008.0-20231006

Lab Sample ID: 670-28220-25

Date Collected: 10/06/23 12:25
Matrix: Water
Date Received: 10/07/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/12/23 18:27	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/12/23 18:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/12/23 18:27	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/12/23 18:27	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/12/23 18:27	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28220-1
SDG: 670-28220

Client Sample ID: LC34-DPT0969-008.0-20231006
Date Collected: 10/06/23 12:25
Date Received: 10/07/23 08:00

Lab Sample ID: 670-28220-25
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/12/23 18:27	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/12/23 18:27	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/12/23 18:27	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/12/23 18:27	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/12/23 18:27	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/12/23 18:27	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/12/23 18:27	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/12/23 18:27	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/12/23 18:27	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/12/23 18:27	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/12/23 18:27	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/12/23 18:27	1
Acetone	3.7	U	10	3.7	ug/L			10/12/23 18:27	1
Benzene	0.27	U	1.0	0.27	ug/L			10/12/23 18:27	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/12/23 18:27	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/12/23 18:27	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/12/23 18:27	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/12/23 18:27	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/12/23 18:27	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/12/23 18:27	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/12/23 18:27	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/12/23 18:27	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/12/23 18:27	1
cis-1,2-Dichloroethene	**8.1**		1.0	0.25	ug/L			10/12/23 18:27	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/12/23 18:27	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/12/23 18:27	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/12/23 18:27	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/12/23 18:27	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/12/23 18:27	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/12/23 18:27	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/12/23 18:27	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/12/23 18:27	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/12/23 18:27	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/12/23 18:27	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/12/23 18:27	1
Styrene	0.27	U	1.0	0.27	ug/L			10/12/23 18:27	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/12/23 18:27	1
Toluene	0.25	U	1.0	0.25	ug/L			10/12/23 18:27	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/12/23 18:27	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/12/23 18:27	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/12/23 18:27	1
Trichlorofluoromethane	0.33	U J3	1.0	0.33	ug/L			10/12/23 18:27	1
Vinyl chloride	**9.1**		1.0	0.40	ug/L			10/12/23 18:27	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/12/23 18:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 124*		*10/12/23 18:27*	*1*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*		*10/12/23 18:27*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*10/12/23 18:27*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*10/12/23 18:27*	*1*

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28220-1
SDG: 670-28220

Client Sample ID: LC34-DPT0969-013.0-20231006
Date Collected: 10/06/23 12:40
Date Received: 10/07/23 08:00

Lab Sample ID: 670-28220-26
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/12/23 15:09	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/12/23 15:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/12/23 15:09	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/12/23 15:09	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/12/23 15:09	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/12/23 15:09	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/12/23 15:09	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/12/23 15:09	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/12/23 15:09	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/12/23 15:09	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/12/23 15:09	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/12/23 15:09	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/12/23 15:09	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/12/23 15:09	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/12/23 15:09	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/12/23 15:09	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/12/23 15:09	1
Acetone	3.7	U	10	3.7	ug/L			10/12/23 15:09	1
Benzene	0.27	U	1.0	0.27	ug/L			10/12/23 15:09	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/12/23 15:09	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/12/23 15:09	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/12/23 15:09	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/12/23 15:09	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/12/23 15:09	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/12/23 15:09	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/12/23 15:09	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/12/23 15:09	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/12/23 15:09	1
cis-1,2-Dichloroethene	**19**		1.0	0.25	ug/L			10/12/23 15:09	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/12/23 15:09	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/12/23 15:09	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/12/23 15:09	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/12/23 15:09	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/12/23 15:09	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/12/23 15:09	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/12/23 15:09	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/12/23 15:09	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/12/23 15:09	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/12/23 15:09	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/12/23 15:09	1
Styrene	0.27	U	1.0	0.27	ug/L			10/12/23 15:09	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/12/23 15:09	1
Toluene	0.25	U	1.0	0.25	ug/L			10/12/23 15:09	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/12/23 15:09	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/12/23 15:09	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/12/23 15:09	1
Trichlorofluoromethane	0.33	U J3	1.0	0.33	ug/L			10/12/23 15:09	1
Vinyl chloride	**27**		1.0	0.40	ug/L			10/12/23 15:09	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/12/23 15:09	1

Client Sample ID: LC34-DPT0969-013.0-20231006

Lab Sample ID: 670-28220-26

Date Collected: 10/06/23 12:40
Matrix: Water
Date Received: 10/07/23 08:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 124*		*10/12/23 15:09*	*1*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*		*10/12/23 15:09*	*1*
Dibromofluoromethane (Surr)	*129*		*70 - 130*		*10/12/23 15:09*	*1*
Toluene-d8 (Surr)	*122*		*70 - 130*		*10/12/23 15:09*	*1*

Client Sample ID: LC34-DPT0969-018.0-20231006

Lab Sample ID: 670-28220-27

Date Collected: 10/06/23 12:55
Matrix: Water
Date Received: 10/07/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/12/23 15:29	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/12/23 15:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/12/23 15:29	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/12/23 15:29	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/12/23 15:29	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/12/23 15:29	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/12/23 15:29	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/12/23 15:29	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/12/23 15:29	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/12/23 15:29	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/12/23 15:29	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/12/23 15:29	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/12/23 15:29	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/12/23 15:29	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/12/23 15:29	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/12/23 15:29	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/12/23 15:29	1
Acetone	3.7	U	10	3.7	ug/L			10/12/23 15:29	1
Benzene	0.27	U	1.0	0.27	ug/L			10/12/23 15:29	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/12/23 15:29	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/12/23 15:29	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/12/23 15:29	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/12/23 15:29	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/12/23 15:29	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/12/23 15:29	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/12/23 15:29	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/12/23 15:29	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/12/23 15:29	1
cis-1,2-Dichloroethene	**78**		1.0	0.25	ug/L			10/12/23 15:29	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/12/23 15:29	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/12/23 15:29	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/12/23 15:29	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/12/23 15:29	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/12/23 15:29	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/12/23 15:29	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/12/23 15:29	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/12/23 15:29	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/12/23 15:29	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/12/23 15:29	1

Client Sample ID: LC34-DPT0969-018.0-20231006

Lab Sample ID: 670-28220-27

Date Collected: 10/06/23 12:55
Matrix: Water
Date Received: 10/07/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	0.26	U	1.0	0.26	ug/L			10/12/23 15:29	1
Styrene	0.27	U	1.0	0.27	ug/L			10/12/23 15:29	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/12/23 15:29	1
Toluene	0.25	U	1.0	0.25	ug/L			10/12/23 15:29	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/12/23 15:29	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/12/23 15:29	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/12/23 15:29	1
Trichlorofluoromethane	0.33	U J3	1.0	0.33	ug/L			10/12/23 15:29	1
Vinyl chloride	**130**		1.0	0.40	ug/L			10/12/23 15:29	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/12/23 15:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*60 - 124*		*10/12/23 15:29*	*1*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*10/12/23 15:29*	*1*
Dibromofluoromethane (Surr)	*119*		*70 - 130*		*10/12/23 15:29*	*1*
Toluene-d8 (Surr)	*121*		*70 - 130*		*10/12/23 15:29*	*1*

Client Sample ID: LC34-DPT0969-025.0-20231006

Lab Sample ID: 670-28220-28

Date Collected: 10/06/23 13:15
Matrix: Water
Date Received: 10/07/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	11	U	50	11	ug/L			10/12/23 17:11	50
1,1,2,2-Tetrachloroethane	20	U	50	20	ug/L			10/12/23 17:11	50
1,1,2-Trichloro-1,2,2-trifluoroethane	12	U	50	12	ug/L			10/12/23 17:11	50
1,1,2-Trichloroethane	16	U	50	16	ug/L			10/12/23 17:11	50
1,1-Dichloroethane	17	U	50	17	ug/L			10/12/23 17:11	50
1,1-Dichloroethene	17	U	50	17	ug/L			10/12/23 17:11	50
1,2,4-Trichlorobenzene	27	U	250	27	ug/L			10/12/23 17:11	50
1,2-Dibromo-3-Chloropropane	90	U	250	90	ug/L			10/12/23 17:11	50
1,2-Dibromoethane (EDB)	17	U	50	17	ug/L			10/12/23 17:11	50
1,2-Dichlorobenzene	16	U	50	16	ug/L			10/12/23 17:11	50
1,2-Dichloroethane	13	U	50	13	ug/L			10/12/23 17:11	50
1,2-Dichloropropane	11	U	50	11	ug/L			10/12/23 17:11	50
1,3-Dichlorobenzene	16	U	50	16	ug/L			10/12/23 17:11	50
1,4-Dichlorobenzene	16	U	50	16	ug/L			10/12/23 17:11	50
2-Butanone (MEK)	320	U	500	320	ug/L			10/12/23 17:11	50
2-Hexanone	160	U	500	160	ug/L			10/12/23 17:11	50
4-Methyl-2-pentanone	140	U	500	140	ug/L			10/12/23 17:11	50
Acetone	190	U	500	190	ug/L			10/12/23 17:11	50
Benzene	14	U	50	14	ug/L			10/12/23 17:11	50
Bromodichloromethane	13	U	50	13	ug/L			10/12/23 17:11	50
Bromoform	30	U	50	30	ug/L			10/12/23 17:11	50
Bromomethane	190	U	250	190	ug/L			10/12/23 17:11	50
Carbon disulfide	22	U	100	22	ug/L			10/12/23 17:11	50
Carbon tetrachloride	15	U	50	15	ug/L			10/12/23 17:11	50
Chlorobenzene	7.5	U	50	7.5	ug/L			10/12/23 17:11	50
Chloroethane	230	U	250	230	ug/L			10/12/23 17:11	50
Chloroform	14	U	50	14	ug/L			10/12/23 17:11	50

Client Sample ID: LC34-DPT0969-025.0-20231006

Lab Sample ID: 670-28220-28

Date Collected: 10/06/23 13:15

Matrix: Water

Date Received: 10/07/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	27	U	50	27	ug/L			10/12/23 17:11	50
cis-1,2-Dichloroethene	**3500**		50	13	ug/L			10/12/23 17:11	50
cis-1,3-Dichloropropene	13	U	50	13	ug/L			10/12/23 17:11	50
Cyclohexane	14	U	50	14	ug/L			10/12/23 17:11	50
Dibromochloromethane	20	U	50	20	ug/L			10/12/23 17:11	50
Dichlorodifluoromethane	18	U	50	18	ug/L			10/12/23 17:11	50
Ethylbenzene	10	U	50	10	ug/L			10/12/23 17:11	50
Isopropylbenzene	13	U	50	13	ug/L			10/12/23 17:11	50
m,p-Xylenes	25	U	50	25	ug/L			10/12/23 17:11	50
Methyl acetate	160	U	250	160	ug/L			10/12/23 17:11	50
Methyl tert-butyl ether	41	U	250	41	ug/L			10/12/23 17:11	50
Methylene Chloride	160	U	250	160	ug/L			10/12/23 17:11	50
o-Xylene	13	U	50	13	ug/L			10/12/23 17:11	50
Styrene	14	U	50	14	ug/L			10/12/23 17:11	50
Tetrachloroethene	18	U	50	18	ug/L			10/12/23 17:11	50
Toluene	13	U	50	13	ug/L			10/12/23 17:11	50
trans-1,2-Dichloroethene	**130**		50	17	ug/L			10/12/23 17:11	50
trans-1,3-Dichloropropene	12	U	50	12	ug/L			10/12/23 17:11	50
Trichloroethene	10	U	50	10	ug/L			10/12/23 17:11	50
Trichlorofluoromethane	17	U J3	50	17	ug/L			10/12/23 17:11	50
Vinyl chloride	**820**		50	20	ug/L			10/12/23 17:11	50
Xylenes, Total	12	U	50	12	ug/L			10/12/23 17:11	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 124*		*10/12/23 17:11*	*50*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*10/12/23 17:11*	*50*
Dibromofluoromethane (Surr)	*123*		*70 - 130*		*10/12/23 17:11*	*50*
Toluene-d8 (Surr)	*123*		*70 - 130*		*10/12/23 17:11*	*50*

Client Sample ID: LC34-DPT0969-034.0-20231006

Lab Sample ID: 670-28220-29

Date Collected: 10/06/23 13:35

Matrix: Water

Date Received: 10/07/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	53	U	250	53	ug/L			10/12/23 16:29	250
1,1,2,2-Tetrachloroethane	100	U	250	100	ug/L			10/12/23 16:29	250
1,1,2-Trichloro-1,2,2-trifluoroethane	58	U	250	58	ug/L			10/12/23 16:29	250
1,1,2-Trichloroethane	80	U	250	80	ug/L			10/12/23 16:29	250
1,1-Dichloroethane	83	U	250	83	ug/L			10/12/23 16:29	250
1,1-Dichloroethene	83	U	250	83	ug/L			10/12/23 16:29	250
1,2,4-Trichlorobenzene	130	U	1300	130	ug/L			10/12/23 16:29	250
1,2-Dibromo-3-Chloropropane	450	U	1300	450	ug/L			10/12/23 16:29	250
1,2-Dibromoethane (EDB)	83	U	250	83	ug/L			10/12/23 16:29	250
1,2-Dichlorobenzene	78	U	250	78	ug/L			10/12/23 16:29	250
1,2-Dichloroethane	63	U	250	63	ug/L			10/12/23 16:29	250
1,2-Dichloropropane	55	U	250	55	ug/L			10/12/23 16:29	250
1,3-Dichlorobenzene	78	U	250	78	ug/L			10/12/23 16:29	250
1,4-Dichlorobenzene	78	U	250	78	ug/L			10/12/23 16:29	250
2-Butanone (MEK)	1600	U	2500	1600	ug/L			10/12/23 16:29	250

Client Sample ID: LC34-DPT0969-034.0-20231006
Date Collected: 10/06/23 13:35
Date Received: 10/07/23 08:00

Lab Sample ID: 670-28220-29
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	800	U	2500	800	ug/L			10/12/23 16:29	250
4-Methyl-2-pentanone	680	U	2500	680	ug/L			10/12/23 16:29	250
Acetone	930	U	2500	930	ug/L			10/12/23 16:29	250
Benzene	68	U	250	68	ug/L			10/12/23 16:29	250
Bromodichloromethane	63	U	250	63	ug/L			10/12/23 16:29	250
Bromoform	150	U	250	150	ug/L			10/12/23 16:29	250
Bromomethane	930	U	1300	930	ug/L			10/12/23 16:29	250
Carbon disulfide	110	U	500	110	ug/L			10/12/23 16:29	250
Carbon tetrachloride	75	U	250	75	ug/L			10/12/23 16:29	250
Chlorobenzene	38	U	250	38	ug/L			10/12/23 16:29	250
Chloroethane	1200	U	1300	1200	ug/L			10/12/23 16:29	250
Chloroform	68	U	250	68	ug/L			10/12/23 16:29	250
Chloromethane	140	U	250	140	ug/L			10/12/23 16:29	250
cis-1,3-Dichloropropene	65	U	250	65	ug/L			10/12/23 16:29	250
Cyclohexane	70	U	250	70	ug/L			10/12/23 16:29	250
Dibromochloromethane	98	U	250	98	ug/L			10/12/23 16:29	250
Dichlorodifluoromethane	90	U	250	90	ug/L			10/12/23 16:29	250
Ethylbenzene	50	U	250	50	ug/L			10/12/23 16:29	250
Isopropylbenzene	65	U	250	65	ug/L			10/12/23 16:29	250
m,p-Xylenes	120	U	250	120	ug/L			10/12/23 16:29	250
Methyl acetate	800	U	1300	800	ug/L			10/12/23 16:29	250
Methyl tert-butyl ether	200	U	1300	200	ug/L			10/12/23 16:29	250
Methylene Chloride	800	U	1300	800	ug/L			10/12/23 16:29	250
o-Xylene	65	U	250	65	ug/L			10/12/23 16:29	250
Styrene	68	U	250	68	ug/L			10/12/23 16:29	250
Tetrachloroethene	88	U	250	88	ug/L			10/12/23 16:29	250
Toluene	63	U	250	63	ug/L			10/12/23 16:29	250
trans-1,2-Dichloroethene	**2100**		250	85	ug/L			10/12/23 16:29	250
trans-1,3-Dichloropropene	58	U	250	58	ug/L			10/12/23 16:29	250
Trichloroethene	**470**		250	50	ug/L			10/12/23 16:29	250
Trichlorofluoromethane	83	U J3	250	83	ug/L			10/12/23 16:29	250
Vinyl chloride	**9600**		250	100	ug/L			10/12/23 16:29	250
Xylenes, Total	58	U	250	58	ug/L			10/12/23 16:29	250

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*60 - 124*		*10/12/23 16:29*	*250*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*		*10/12/23 16:29*	*250*
Dibromofluoromethane (Surr)	*116*		*70 - 130*		*10/12/23 16:29*	*250*
Toluene-d8 (Surr)	*120*		*70 - 130*		*10/12/23 16:29*	*250*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**58000**		500	130	ug/L			10/13/23 15:10	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*		*10/13/23 15:10*	*500*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*10/13/23 15:10*	*500*
Dibromofluoromethane (Surr)	*105*		*70 - 130*		*10/13/23 15:10*	*500*
Toluene-d8 (Surr)	*93*		*70 - 130*		*10/13/23 15:10*	*500*

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28220-1
SDG: 670-28220

Client Sample ID: LC34-DPT0969-038.0 -20231006
Date Collected: 10/06/23 13:55
Date Received: 10/07/23 08:00

Lab Sample ID: 670-28220-30
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	42	U	200	42	ug/L			10/12/23 16:49	200
1,1,2,2-Tetrachloroethane	80	U	200	80	ug/L			10/12/23 16:49	200
1,1,2-Trichloro-1,2,2-trifluoroethane	46	U	200	46	ug/L			10/12/23 16:49	200
1,1,2-Trichloroethane	64	U	200	64	ug/L			10/12/23 16:49	200
1,1-Dichloroethane	66	U	200	66	ug/L			10/12/23 16:49	200
1,1-Dichloroethene	66	U	200	66	ug/L			10/12/23 16:49	200
1,2,4-Trichlorobenzene	110	U	1000	110	ug/L			10/12/23 16:49	200
1,2-Dibromo-3-Chloropropane	360	U	1000	360	ug/L			10/12/23 16:49	200
1,2-Dibromoethane (EDB)	66	U	200	66	ug/L			10/12/23 16:49	200
1,2-Dichlorobenzene	62	U	200	62	ug/L			10/12/23 16:49	200
1,2-Dichloroethane	50	U	200	50	ug/L			10/12/23 16:49	200
1,2-Dichloropropane	44	U	200	44	ug/L			10/12/23 16:49	200
1,3-Dichlorobenzene	62	U	200	62	ug/L			10/12/23 16:49	200
1,4-Dichlorobenzene	62	U	200	62	ug/L			10/12/23 16:49	200
2-Butanone (MEK)	1300	U	2000	1300	ug/L			10/12/23 16:49	200
2-Hexanone	640	U	2000	640	ug/L			10/12/23 16:49	200
4-Methyl-2-pentanone	540	U	2000	540	ug/L			10/12/23 16:49	200
Acetone	740	U	2000	740	ug/L			10/12/23 16:49	200
Benzene	54	U	200	54	ug/L			10/12/23 16:49	200
Bromodichloromethane	50	U	200	50	ug/L			10/12/23 16:49	200
Bromoform	120	U	200	120	ug/L			10/12/23 16:49	200
Bromomethane	740	U	1000	740	ug/L			10/12/23 16:49	200
Carbon disulfide	86	U	400	86	ug/L			10/12/23 16:49	200
Carbon tetrachloride	60	U	200	60	ug/L			10/12/23 16:49	200
Chlorobenzene	30	U	200	30	ug/L			10/12/23 16:49	200
Chloroethane	920	U	1000	920	ug/L			10/12/23 16:49	200
Chloroform	54	U	200	54	ug/L			10/12/23 16:49	200
Chloromethane	110	U	200	110	ug/L			10/12/23 16:49	200
cis-1,2-Dichloroethene	**21000**		200	50	ug/L			10/12/23 16:49	200
cis-1,3-Dichloropropene	52	U	200	52	ug/L			10/12/23 16:49	200
Cyclohexane	56	U	200	56	ug/L			10/12/23 16:49	200
Dibromochloromethane	78	U	200	78	ug/L			10/12/23 16:49	200
Dichlorodifluoromethane	72	U	200	72	ug/L			10/12/23 16:49	200
Ethylbenzene	40	U	200	40	ug/L			10/12/23 16:49	200
Isopropylbenzene	52	U	200	52	ug/L			10/12/23 16:49	200
m,p-Xylenes	98	U	200	98	ug/L			10/12/23 16:49	200
Methyl acetate	640	U	1000	640	ug/L			10/12/23 16:49	200
Methyl tert-butyl ether	160	U	1000	160	ug/L			10/12/23 16:49	200
Methylene Chloride	640	U	1000	640	ug/L			10/12/23 16:49	200
o-Xylene	52	U	200	52	ug/L			10/12/23 16:49	200
Styrene	54	U	200	54	ug/L			10/12/23 16:49	200
Tetrachloroethene	70	U	200	70	ug/L			10/12/23 16:49	200
Toluene	50	U	200	50	ug/L			10/12/23 16:49	200
trans-1,2-Dichloroethene	**290**		200	68	ug/L			10/12/23 16:49	200
trans-1,3-Dichloropropene	46	U	200	46	ug/L			10/12/23 16:49	200
Trichloroethene	**50**	**I**	200	40	ug/L			10/12/23 16:49	200
Trichlorofluoromethane	66	U J3	200	66	ug/L			10/12/23 16:49	200
Vinyl chloride	**3700**		200	80	ug/L			10/12/23 16:49	200
Xylenes, Total	46	U	200	46	ug/L			10/12/23 16:49	200

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28220-1
SDG: 670-28220

Client Sample ID: LC34-DPT0969-038.0 -20231006
Date Collected: 10/06/23 13:55
Date Received: 10/07/23 08:00

Lab Sample ID: 670-28220-30
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		60 - 124		10/12/23 16:49	200
4-Bromofluorobenzene (Surr)	90		70 - 130		10/12/23 16:49	200
Dibromofluoromethane (Surr)	120		70 - 130		10/12/23 16:49	200
Toluene-d8 (Surr)	122		70 - 130		10/12/23 16:49	200

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28220-1
SDG: 670-28220

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(60-124)	(70-130)	(70-130)	(70-130)
670-28220-1	LC34-DPT0965-008.0-20231005	101	80	111	100
670-28220-2	LC34-DPT0965-013 -20231005	101	81	112	101
670-28220-3	LC34-DPT0965-018.0-20231005	101	80	109	101
670-28220-4	LC34-DPT0965-025.0-20231005	100	81	110	101
670-28220-5	LC34-DPT0965-034.0-20231005	99	81	110	100
670-28220-6	LC34-DPT0965-038.0-20231005	101	80	109	101
670-28220-7	LC34-DPT0966-008.0-20231005	102	78	112	100
670-28220-8	LC34-DPT0966-013.0-20231005	100	80	111	102
670-28220-9	LC34-DPT0966-018.0-20231005	101	79	112	100
670-28220-10	LC34-DPT0966-025.0-20231005	101	78	110	101
670-28220-11	LC34-DPT0966-034.0-20231005	100	102	102	99
670-28220-11 - DL	LC34-DPT0966-034.0-20231005	97	105	104	97
670-28220-12	LC34-DPT0966-038.0-20231005	98	104	101	98
670-28220-13	LC34-DPT0967-008.0-20231006	97	105	99	97
670-28220-14	LC34-DPT0967-013.0-20231006	98	104	102	97
670-28220-15	LC34-DPT0967-018.0-20231006	99	105	102	96
670-28220-16	LC34-DPT0967-025.0-20231006	101	102	104	97
670-28220-17	LC34-DPT0967-034.0-20231006	100	103	103	97
670-28220-18	LC34-DPT0967-038.0-20231006	100	103	104	99
670-28220-19	LC34-DPT0968-008.0-20231006	96	104	100	97
670-28220-20	LC34-DPT0968-013.0-20231006	98	105	102	96
670-28220-21	LC34-DPT0968-018.0-20231006	100	106	103	96
670-28220-22	LC34-DPT0968-025.0-20231006	99	105	103	99
670-28220-23	LC34-DPT0968-034.0-20231006	99	104	103	97
670-28220-24	LC34-DPT0968-038.0-20231006	99	106	102	97
670-28220-25	LC34-DPT0969-008.0-20231006	97	109	102	96
670-28220-26	LC34-DPT0969-013.0-20231006	99	91	129	122
670-28220-27	LC34-DPT0969-018.0-20231006	96	92	119	121
670-28220-28	LC34-DPT0969-025.0-20231006	101	96	123	123

Surrogate Summary

Client: Tetra Tech, Inc. Job ID: 670-28220-1
Project/Site: NASA KSC LC34 DPT SDG: 670-28220

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(60-124)	(70-130)	(70-130)	(70-130)
670-28220-29	LC34-DPT0969-034.0-20231006	96	91	116	120
670-28220-29 - DL	LC34-DPT0969-034.0-20231006	95	100	105	93
670-28220-30	LC34-DPT0969-038.0-20231006	98	90	120	122
LB 680-801695/1-A	Method Blank	100	91	129	121
LCS 680-802063/4	Lab Control Sample	112	93	114	103
LCS 680-802234/4	Lab Control Sample	98	98	107	121
LCS 680-802239/5	Lab Control Sample	112	86	115	101
LCS 680-802248/4	Lab Control Sample	111	106	103	97
LCS 680-802487/3	Lab Control Sample	98	101	105	95
LCS 680-802610/5	Lab Control Sample	101	100	101	95
LCSD 680-802063/5	Lab Control Sample Dup	114	94	118	103
LCSD 680-802234/5	Lab Control Sample Dup	99	99	110	120
LCSD 680-802239/6	Lab Control Sample Dup	105	89	111	103
LCSD 680-802248/5	Lab Control Sample Dup	105	109	106	99
LCSD 680-802487/4	Lab Control Sample Dup	99	100	102	94
LCSD 680-802610/6	Lab Control Sample Dup	100	101	100	93
MB 680-802063/10	Method Blank	101	78	111	101
MB 680-802234/8	Method Blank	97	91	128	121
MB 680-802239/9	Method Blank	102	77	108	102
MB 680-802248/8	Method Blank	96	107	99	97
MB 680-802487/7	Method Blank	90	100	105	91
MB 680-802610/9	Method Blank	96	103	100	99

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(60-124)	(70-130)	(70-130)	(70-130)
680-241324-A-2-B MS	Matrix Spike	100	115	101	135 J1
680-241324-A-2-B MSD	Matrix Spike Duplicate	94	105	93	120

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 680-802063/10
Matrix: Water
Analysis Batch: 802063

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/11/23 14:58	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/11/23 14:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/11/23 14:58	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/11/23 14:58	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/11/23 14:58	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/11/23 14:58	1
1,2,4-Trichlorobenzene	0.735	I	5.0	0.53	ug/L			10/11/23 14:58	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/11/23 14:58	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/11/23 14:58	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/11/23 14:58	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/11/23 14:58	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/11/23 14:58	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/11/23 14:58	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/11/23 14:58	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/11/23 14:58	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/11/23 14:58	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/11/23 14:58	1
Acetone	3.7	U	10	3.7	ug/L			10/11/23 14:58	1
Benzene	0.27	U	1.0	0.27	ug/L			10/11/23 14:58	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/11/23 14:58	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/11/23 14:58	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/11/23 14:58	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/11/23 14:58	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/11/23 14:58	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/11/23 14:58	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/11/23 14:58	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/11/23 14:58	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/11/23 14:58	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/11/23 14:58	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/11/23 14:58	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/11/23 14:58	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/11/23 14:58	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/11/23 14:58	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/11/23 14:58	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/11/23 14:58	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/11/23 14:58	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/11/23 14:58	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/11/23 14:58	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/11/23 14:58	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/11/23 14:58	1
Styrene	0.27	U	1.0	0.27	ug/L			10/11/23 14:58	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/11/23 14:58	1
Toluene	0.25	U	1.0	0.25	ug/L			10/11/23 14:58	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/11/23 14:58	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/11/23 14:58	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/11/23 14:58	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/11/23 14:58	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/11/23 14:58	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-802063/10
Matrix: Water
Analysis Batch: 802063

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/11/23 14:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 124*		*10/11/23 14:58*	*1*
4-Bromofluorobenzene (Surr)	*78*		*70 - 130*		*10/11/23 14:58*	*1*
Dibromofluoromethane (Surr)	*111*		*70 - 130*		*10/11/23 14:58*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/11/23 14:58*	*1*

Lab Sample ID: LCS 680-802063/4
Matrix: Water
Analysis Batch: 802063

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	51.0		ug/L		102	70 - 130
1,1,2,2-Tetrachloroethane	50.0	45.0		ug/L		90	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	54.4		ug/L		109	63 - 141
1,1,2-Trichloroethane	50.0	47.5		ug/L		95	70 - 130
1,1-Dichloroethane	50.0	45.9		ug/L		92	70 - 130
1,1-Dichloroethene	50.0	47.1		ug/L		94	70 - 130
1,2,4-Trichlorobenzene	50.0	45.5		ug/L		91	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	34.7	J3	ug/L		69	70 - 130
1,2-Dibromoethane (EDB)	50.0	50.5		ug/L		101	70 - 130
1,2-Dichlorobenzene	50.0	48.4		ug/L		97	70 - 130
1,2-Dichloroethane	50.0	52.7		ug/L		105	70 - 130
1,2-Dichloropropane	50.0	44.6		ug/L		89	70 - 130
1,3-Dichlorobenzene	50.0	48.2		ug/L		96	70 - 130
1,4-Dichlorobenzene	50.0	48.5		ug/L		97	70 - 130
2-Butanone (MEK)	250	208		ug/L		83	69 - 120
2-Hexanone	250	199		ug/L		79	70 - 130
4-Methyl-2-pentanone	250	212		ug/L		85	68 - 120
Acetone	250	185		ug/L		74	67 - 120
Benzene	50.0	47.5		ug/L		95	70 - 130
Bromodichloromethane	50.0	50.5		ug/L		101	70 - 130
Bromoform	50.0	53.0		ug/L		106	69 - 129
Bromomethane	50.0	96.5	J3	ug/L		193	28 - 192
Carbon disulfide	50.0	40.8		ug/L		82	70 - 130
Carbon tetrachloride	50.0	56.2		ug/L		112	70 - 130
Chlorobenzene	50.0	51.9		ug/L		104	70 - 130
Chloroethane	50.0	122	J3	ug/L		243	31 - 213
Chloroform	50.0	52.4		ug/L		105	70 - 130
Chloromethane	50.0	36.9		ug/L		74	59 - 127
cis-1,2-Dichloroethene	50.0	48.3		ug/L		97	70 - 130
cis-1,3-Dichloropropene	50.0	47.0		ug/L		94	70 - 130
Cyclohexane	50.0	45.2		ug/L		90	23 - 175
Dibromochloromethane	50.0	53.7		ug/L		107	70 - 130
Dichlorodifluoromethane	50.0	56.4		ug/L		113	70 - 130
Ethylbenzene	50.0	50.3		ug/L		101	70 - 130
Isopropylbenzene	50.0	50.2		ug/L		100	70 - 130

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-802063/4
Matrix: Water
Analysis Batch: 802063

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
m,p-Xylenes	50.0	49.7		ug/L		99	70 - 130
Methyl acetate	100	70.2		ug/L		70	67 - 120
Methyl tert-butyl ether	50.0	48.1		ug/L		96	70 - 130
Methylene Chloride	50.0	50.9		ug/L		102	70 - 130
o-Xylene	50.0	49.1		ug/L		98	70 - 130
Styrene	50.0	50.2		ug/L		100	70 - 130
Tetrachloroethene	50.0	55.4		ug/L		111	70 - 130
Toluene	50.0	47.7		ug/L		95	70 - 130
trans-1,2-Dichloroethene	50.0	48.6		ug/L		97	70 - 130
trans-1,3-Dichloropropene	50.0	49.0		ug/L		98	70 - 130
Trichloroethene	50.0	52.0		ug/L		104	70 - 130
Trichlorofluoromethane	50.0	110	J3	ug/L		219	63 - 142
Vinyl chloride	50.0	46.1		ug/L		92	66 - 129
Xylenes, Total	100	98.8		ug/L		99	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*112*		*60 - 124*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*
Dibromofluoromethane (Surr)	*114*		*70 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*

Lab Sample ID: LCSD 680-802063/5
Matrix: Water
Analysis Batch: 802063

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	50.0	51.8		ug/L		104	70 - 130	1	30
1,1,2,2-Tetrachloroethane	50.0	45.3		ug/L		91	70 - 130	1	30
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	54.6		ug/L		109	63 - 141	0	30
1,1,2-Trichloroethane	50.0	47.9		ug/L		96	70 - 130	1	30
1,1-Dichloroethane	50.0	46.1		ug/L		92	70 - 130	0	30
1,1-Dichloroethene	50.0	47.6		ug/L		95	70 - 130	1	20
1,2,4-Trichlorobenzene	50.0	45.5		ug/L		91	70 - 130	0	30
1,2-Dibromo-3-Chloropropane	50.0	33.7	J3	ug/L		67	70 - 130	3	30
1,2-Dibromoethane (EDB)	50.0	51.7		ug/L		103	70 - 130	2	30
1,2-Dichlorobenzene	50.0	48.1		ug/L		96	70 - 130	1	30
1,2-Dichloroethane	50.0	54.1		ug/L		108	70 - 130	3	50
1,2-Dichloropropane	50.0	45.6		ug/L		91	70 - 130	2	20
1,3-Dichlorobenzene	50.0	48.5		ug/L		97	70 - 130	1	30
1,4-Dichlorobenzene	50.0	49.4		ug/L		99	70 - 130	2	30
2-Butanone (MEK)	250	221		ug/L		89	69 - 120	6	30
2-Hexanone	250	205		ug/L		82	70 - 130	3	20
4-Methyl-2-pentanone	250	219		ug/L		88	68 - 120	3	30
Acetone	250	196		ug/L		78	67 - 120	6	30
Benzene	50.0	47.3		ug/L		95	70 - 130	1	30
Bromodichloromethane	50.0	51.3		ug/L		103	70 - 130	2	30
Bromoform	50.0	54.4		ug/L		109	69 - 129	3	30
Bromomethane	50.0	94.3		ug/L		189	28 - 192	2	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-802063/5
Matrix: Water
Analysis Batch: 802063

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon disulfide			50.0	43.3		ug/L		87	70 - 130	6	30
Carbon tetrachloride			50.0	56.9		ug/L		114	70 - 130	1	30
Chlorobenzene			50.0	52.4		ug/L		105	70 - 130	1	30
Chloroethane			50.0	123	J3	ug/L		247	31 - 213	1	30
Chloroform			50.0	52.5		ug/L		105	70 - 130	0	30
Chloromethane			50.0	37.0		ug/L		74	59 - 127	0	30
cis-1,2-Dichloroethene			50.0	48.6		ug/L		97	70 - 130	1	30
cis-1,3-Dichloropropene			50.0	47.3		ug/L		95	70 - 130	1	20
Cyclohexane			50.0	45.2		ug/L		90	23 - 175	0	30
Dibromochloromethane			50.0	55.0		ug/L		110	70 - 130	3	30
Dichlorodifluoromethane			50.0	56.5		ug/L		113	70 - 130	0	40
Ethylbenzene			50.0	50.6		ug/L		101	70 - 130	1	20
Isopropylbenzene			50.0	51.4		ug/L		103	70 - 130	2	30
m,p-Xylenes			50.0	49.6		ug/L		99	70 - 130	0	30
Methyl acetate			100	71.5		ug/L		71	67 - 120	2	30
Methyl tert-butyl ether			50.0	49.0		ug/L		98	70 - 130	2	30
Methylene Chloride			50.0	51.6		ug/L		103	70 - 130	1	30
o-Xylene			50.0	49.5		ug/L		99	70 - 130	1	30
Styrene			50.0	50.3		ug/L		101	70 - 130	0	30
Tetrachloroethene			50.0	55.7		ug/L		111	70 - 130	0	30
Toluene			50.0	48.6		ug/L		97	70 - 130	2	30
trans-1,2-Dichloroethene			50.0	49.0		ug/L		98	70 - 130	1	30
trans-1,3-Dichloropropene			50.0	50.1		ug/L		100	70 - 130	2	30
Trichloroethene			50.0	52.6		ug/L		105	70 - 130	1	30
Trichlorofluoromethane			50.0	110	J3	ug/L		220	63 - 142	1	30
Vinyl chloride			50.0	46.0		ug/L		92	66 - 129	0	30
Xylenes, Total			100	99.1		ug/L		99	70 - 130	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*114*		*60 - 124*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
Dibromofluoromethane (Surr)	*118*		*70 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*

Lab Sample ID: LB 680-801695/1-A
Matrix: Water
Analysis Batch: 802234

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	LB Result	LB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	4.2	U	20	4.2	ug/L			10/12/23 14:29	20
1,1,2,2-Tetrachloroethane	8.0	U	20	8.0	ug/L			10/12/23 14:29	20
1,1,2-Trichloro-1,2,2-trifluoroethane	4.6	U	20	4.6	ug/L			10/12/23 14:29	20
1,1,2-Trichloroethane	6.4	U	20	6.4	ug/L			10/12/23 14:29	20
1,1-Dichloroethane	6.6	U	20	6.6	ug/L			10/12/23 14:29	20
1,1-Dichloroethene	6.6	U	20	6.6	ug/L			10/12/23 14:29	20
1,2,4-Trichlorobenzene	11	U	100	11	ug/L			10/12/23 14:29	20
1,2-Dibromo-3-Chloropropane	36	U	100	36	ug/L			10/12/23 14:29	20
1,2-Dibromoethane (EDB)	6.6	U	20	6.6	ug/L			10/12/23 14:29	20

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LB 680-801695/1-A
Matrix: Water
Analysis Batch: 802234

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	LB Result	LB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	6.2	U	20	6.2	ug/L			10/12/23 14:29	20
1,2-Dichloroethane	5.0	U	20	5.0	ug/L			10/12/23 14:29	20
1,2-Dichloropropane	4.4	U	20	4.4	ug/L			10/12/23 14:29	20
1,3-Dichlorobenzene	6.2	U	20	6.2	ug/L			10/12/23 14:29	20
1,4-Dichlorobenzene	6.2	U	20	6.2	ug/L			10/12/23 14:29	20
2-Butanone (MEK)	130	U	200	130	ug/L			10/12/23 14:29	20
2-Hexanone	64	U	200	64	ug/L			10/12/23 14:29	20
4-Methyl-2-pentanone	54	U	200	54	ug/L			10/12/23 14:29	20
Acetone	74	U	200	74	ug/L			10/12/23 14:29	20
Benzene	5.4	U	20	5.4	ug/L			10/12/23 14:29	20
Bromodichloromethane	5.0	U	20	5.0	ug/L			10/12/23 14:29	20
Bromoform	12	U	20	12	ug/L			10/12/23 14:29	20
Bromomethane	74	U	100	74	ug/L			10/12/23 14:29	20
Carbon disulfide	8.6	U	40	8.6	ug/L			10/12/23 14:29	20
Carbon tetrachloride	6.0	U	20	6.0	ug/L			10/12/23 14:29	20
Chlorobenzene	3.0	U	20	3.0	ug/L			10/12/23 14:29	20
Chloroethane	92	U	100	92	ug/L			10/12/23 14:29	20
Chloroform	5.4	U	20	5.4	ug/L			10/12/23 14:29	20
Chloromethane	11	U	20	11	ug/L			10/12/23 14:29	20
cis-1,2-Dichloroethene	5.0	U	20	5.0	ug/L			10/12/23 14:29	20
cis-1,3-Dichloropropene	5.2	U	20	5.2	ug/L			10/12/23 14:29	20
Cyclohexane	5.6	U	20	5.6	ug/L			10/12/23 14:29	20
Dibromochloromethane	7.8	U	20	7.8	ug/L			10/12/23 14:29	20
Dichlorodifluoromethane	7.2	U	20	7.2	ug/L			10/12/23 14:29	20
Ethylbenzene	4.0	U	20	4.0	ug/L			10/12/23 14:29	20
Isopropylbenzene	5.2	U	20	5.2	ug/L			10/12/23 14:29	20
m,p-Xylenes	9.8	U	20	9.8	ug/L			10/12/23 14:29	20
Methyl acetate	64	U	100	64	ug/L			10/12/23 14:29	20
Methyl tert-butyl ether	16	U	100	16	ug/L			10/12/23 14:29	20
Methylene Chloride	64	U	100	64	ug/L			10/12/23 14:29	20
o-Xylene	5.2	U	20	5.2	ug/L			10/12/23 14:29	20
Styrene	5.4	U	20	5.4	ug/L			10/12/23 14:29	20
Tetrachloroethene	7.0	U	20	7.0	ug/L			10/12/23 14:29	20
Toluene	5.0	U	20	5.0	ug/L			10/12/23 14:29	20
trans-1,2-Dichloroethene	6.8	U	20	6.8	ug/L			10/12/23 14:29	20
trans-1,3-Dichloropropene	4.6	U	20	4.6	ug/L			10/12/23 14:29	20
Trichloroethene	4.0	U	20	4.0	ug/L			10/12/23 14:29	20
Trichlorofluoromethane	6.6	U	20	6.6	ug/L			10/12/23 14:29	20
Vinyl chloride	8.0	U	20	8.0	ug/L			10/12/23 14:29	20
Xylenes, Total	4.6	U	20	4.6	ug/L			10/12/23 14:29	20

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 124*		*10/12/23 14:29*	*20*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*		*10/12/23 14:29*	*20*
Dibromofluoromethane (Surr)	*129*		*70 - 130*		*10/12/23 14:29*	*20*
Toluene-d8 (Surr)	*121*		*70 - 130*		*10/12/23 14:29*	*20*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-802234/8
Matrix: Water
Analysis Batch: 802234

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/12/23 13:05	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/12/23 13:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/12/23 13:05	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/12/23 13:05	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/12/23 13:05	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/12/23 13:05	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/12/23 13:05	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/12/23 13:05	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/12/23 13:05	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/12/23 13:05	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/12/23 13:05	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/12/23 13:05	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/12/23 13:05	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/12/23 13:05	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/12/23 13:05	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/12/23 13:05	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/12/23 13:05	1
Acetone	3.7	U	10	3.7	ug/L			10/12/23 13:05	1
Benzene	0.27	U	1.0	0.27	ug/L			10/12/23 13:05	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/12/23 13:05	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/12/23 13:05	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/12/23 13:05	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/12/23 13:05	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/12/23 13:05	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/12/23 13:05	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/12/23 13:05	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/12/23 13:05	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/12/23 13:05	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/12/23 13:05	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/12/23 13:05	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/12/23 13:05	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/12/23 13:05	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/12/23 13:05	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/12/23 13:05	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/12/23 13:05	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/12/23 13:05	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/12/23 13:05	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/12/23 13:05	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/12/23 13:05	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/12/23 13:05	1
Styrene	0.27	U	1.0	0.27	ug/L			10/12/23 13:05	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/12/23 13:05	1
Toluene	0.25	U	1.0	0.25	ug/L			10/12/23 13:05	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/12/23 13:05	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/12/23 13:05	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/12/23 13:05	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/12/23 13:05	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/12/23 13:05	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-802234/8
Matrix: Water
Analysis Batch: 802234

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/12/23 13:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 124*		*10/12/23 13:05*	*1*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*		*10/12/23 13:05*	*1*
Dibromofluoromethane (Surr)	*128*		*70 - 130*		*10/12/23 13:05*	*1*
Toluene-d8 (Surr)	*121*		*70 - 130*		*10/12/23 13:05*	*1*

Lab Sample ID: LCS 680-802234/4
Matrix: Water
Analysis Batch: 802234

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	46.5		ug/L		93	70 - 130
1,1,2,2-Tetrachloroethane	50.0	42.8		ug/L		86	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	57.8		ug/L		116	63 - 141
1,1,2-Trichloroethane	50.0	44.4		ug/L		89	70 - 130
1,1-Dichloroethane	50.0	44.9		ug/L		90	70 - 130
1,1-Dichloroethene	50.0	51.1		ug/L		102	70 - 130
1,2,4-Trichlorobenzene	50.0	49.2		ug/L		98	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	45.5		ug/L		91	70 - 130
1,2-Dibromoethane (EDB)	50.0	51.5		ug/L		103	70 - 130
1,2-Dichlorobenzene	50.0	50.4		ug/L		101	70 - 130
1,2-Dichloroethane	50.0	44.6		ug/L		89	70 - 130
1,2-Dichloropropane	50.0	44.9		ug/L		90	70 - 130
1,3-Dichlorobenzene	50.0	49.2		ug/L		98	70 - 130
1,4-Dichlorobenzene	50.0	49.6		ug/L		99	70 - 130
2-Butanone (MEK)	250	234		ug/L		94	69 - 120
2-Hexanone	250	256		ug/L		103	70 - 130
4-Methyl-2-pentanone	250	224		ug/L		90	68 - 120
Acetone	250	234		ug/L		94	67 - 120
Benzene	50.0	44.2		ug/L		88	70 - 130
Bromodichloromethane	50.0	46.2		ug/L		92	70 - 130
Bromoform	50.0	54.4		ug/L		109	69 - 129
Bromomethane	50.0	64.4		ug/L		129	28 - 192
Carbon disulfide	50.0	43.2		ug/L		86	70 - 130
Carbon tetrachloride	50.0	48.9		ug/L		98	70 - 130
Chlorobenzene	50.0	54.0		ug/L		108	70 - 130
Chloroethane	50.0	56.8		ug/L		114	31 - 213
Chloroform	50.0	45.9		ug/L		92	70 - 130
Chloromethane	50.0	36.7		ug/L		73	59 - 127
cis-1,2-Dichloroethene	50.0	45.2		ug/L		90	70 - 130
cis-1,3-Dichloropropene	50.0	47.1		ug/L		94	70 - 130
Cyclohexane	50.0	45.2		ug/L		90	23 - 175
Dibromochloromethane	50.0	49.9		ug/L		100	70 - 130
Dichlorodifluoromethane	50.0	49.7		ug/L		99	70 - 130
Ethylbenzene	50.0	46.1		ug/L		92	70 - 130
Isopropylbenzene	50.0	48.2		ug/L		96	70 - 130

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-802234/4
Matrix: Water
Analysis Batch: 802234

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
m,p-Xylenes	50.0	53.3		ug/L		107	70 - 130
Methyl acetate	100	81.5		ug/L		81	67 - 120
Methyl tert-butyl ether	50.0	49.8		ug/L		100	70 - 130
Methylene Chloride	50.0	43.5		ug/L		87	70 - 130
o-Xylene	50.0	47.2		ug/L		94	70 - 130
Styrene	50.0	58.4		ug/L		117	70 - 130
Tetrachloroethene	50.0	51.3		ug/L		103	70 - 130
Toluene	50.0	50.1		ug/L		100	70 - 130
trans-1,2-Dichloroethene	50.0	48.7		ug/L		97	70 - 130
trans-1,3-Dichloropropene	50.0	45.8		ug/L		92	70 - 130
Trichloroethene	50.0	55.0		ug/L		110	70 - 130
Trichlorofluoromethane	50.0	79.6	J3	ug/L		159	63 - 142
Vinyl chloride	50.0	41.9		ug/L		84	66 - 129
Xylenes, Total	100	101		ug/L		101	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 124*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
Dibromofluoromethane (Surr)	*107*		*70 - 130*
Toluene-d8 (Surr)	*121*		*70 - 130*

Lab Sample ID: LCSD 680-802234/5
Matrix: Water
Analysis Batch: 802234

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	50.0	48.2		ug/L		96	70 - 130	4	30
1,1,2,2-Tetrachloroethane	50.0	42.0		ug/L		84	70 - 130	2	30
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	56.9		ug/L		114	63 - 141	2	30
1,1,2-Trichloroethane	50.0	45.4		ug/L		91	70 - 130	2	30
1,1-Dichloroethane	50.0	43.8		ug/L		88	70 - 130	3	30
1,1-Dichloroethene	50.0	52.9		ug/L		106	70 - 130	3	20
1,2,4-Trichlorobenzene	50.0	48.9		ug/L		98	70 - 130	1	30
1,2-Dibromo-3-Chloropropane	50.0	46.1		ug/L		92	70 - 130	1	30
1,2-Dibromoethane (EDB)	50.0	52.0		ug/L		104	70 - 130	1	30
1,2-Dichlorobenzene	50.0	50.9		ug/L		102	70 - 130	1	30
1,2-Dichloroethane	50.0	45.3		ug/L		91	70 - 130	2	50
1,2-Dichloropropane	50.0	45.5		ug/L		91	70 - 130	1	20
1,3-Dichlorobenzene	50.0	50.1		ug/L		100	70 - 130	2	30
1,4-Dichlorobenzene	50.0	50.1		ug/L		100	70 - 130	1	30
2-Butanone (MEK)	250	240		ug/L		96	69 - 120	3	30
2-Hexanone	250	259		ug/L		103	70 - 130	1	20
4-Methyl-2-pentanone	250	225		ug/L		90	68 - 120	0	30
Acetone	250	237		ug/L		95	67 - 120	1	30
Benzene	50.0	45.1		ug/L		90	70 - 130	2	30
Bromodichloromethane	50.0	47.6		ug/L		95	70 - 130	3	30
Bromoform	50.0	52.3		ug/L		105	69 - 129	4	30
Bromomethane	50.0	49.7		ug/L		99	28 - 192	26	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-802234/5
Matrix: Water
Analysis Batch: 802234

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon disulfide			50.0	43.2		ug/L		86	70 - 130	0	30
Carbon tetrachloride			50.0	49.0		ug/L		98	70 - 130	0	30
Chlorobenzene			50.0	53.9		ug/L		108	70 - 130	0	30
Chloroethane			50.0	60.0		ug/L		120	31 - 213	6	30
Chloroform			50.0	47.6		ug/L		95	70 - 130	4	30
Chloromethane			50.0	37.1		ug/L		74	59 - 127	1	30
cis-1,2-Dichloroethene			50.0	44.7		ug/L		89	70 - 130	1	30
cis-1,3-Dichloropropene			50.0	47.9		ug/L		96	70 - 130	2	20
Cyclohexane			50.0	45.5		ug/L		91	23 - 175	1	30
Dibromochloromethane			50.0	50.1		ug/L		100	70 - 130	0	30
Dichlorodifluoromethane			50.0	49.9		ug/L		100	70 - 130	0	40
Ethylbenzene			50.0	45.7		ug/L		91	70 - 130	1	20
Isopropylbenzene			50.0	47.3		ug/L		95	70 - 130	2	30
m,p-Xylenes			50.0	52.9		ug/L		106	70 - 130	1	30
Methyl acetate			100	82.0		ug/L		82	67 - 120	1	30
Methyl tert-butyl ether			50.0	50.2		ug/L		100	70 - 130	1	30
Methylene Chloride			50.0	46.2		ug/L		92	70 - 130	6	30
o-Xylene			50.0	46.4		ug/L		93	70 - 130	2	30
Styrene			50.0	58.3		ug/L		117	70 - 130	0	30
Tetrachloroethene			50.0	51.4		ug/L		103	70 - 130	0	30
Toluene			50.0	50.4		ug/L		101	70 - 130	1	30
trans-1,2-Dichloroethene			50.0	45.5		ug/L		91	70 - 130	7	30
trans-1,3-Dichloropropene			50.0	46.6		ug/L		93	70 - 130	2	30
Trichloroethene			50.0	57.9		ug/L		116	70 - 130	5	30
Trichlorofluoromethane			50.0	78.3	J3	ug/L		157	63 - 142	2	30
Vinyl chloride			50.0	41.9		ug/L		84	66 - 129	0	30
Xylenes, Total			100	99.3		ug/L		99	70 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 124*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*110*		*70 - 130*
Toluene-d8 (Surr)	*120*		*70 - 130*

Lab Sample ID: MB 680-802239/9
Matrix: Water
Analysis Batch: 802239

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/12/23 13:39	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/12/23 13:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/12/23 13:39	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/12/23 13:39	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/12/23 13:39	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/12/23 13:39	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/12/23 13:39	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/12/23 13:39	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/12/23 13:39	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-802239/9
Matrix: Water
Analysis Batch: 802239

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/12/23 13:39	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/12/23 13:39	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/12/23 13:39	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/12/23 13:39	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/12/23 13:39	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/12/23 13:39	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/12/23 13:39	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/12/23 13:39	1
Acetone	3.7	U	10	3.7	ug/L			10/12/23 13:39	1
Benzene	0.27	U	1.0	0.27	ug/L			10/12/23 13:39	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/12/23 13:39	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/12/23 13:39	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/12/23 13:39	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/12/23 13:39	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/12/23 13:39	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/12/23 13:39	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/12/23 13:39	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/12/23 13:39	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/12/23 13:39	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/12/23 13:39	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/12/23 13:39	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/12/23 13:39	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/12/23 13:39	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/12/23 13:39	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/12/23 13:39	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/12/23 13:39	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/12/23 13:39	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/12/23 13:39	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/12/23 13:39	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/12/23 13:39	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/12/23 13:39	1
Styrene	0.27	U	1.0	0.27	ug/L			10/12/23 13:39	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/12/23 13:39	1
Toluene	0.25	U	1.0	0.25	ug/L			10/12/23 13:39	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/12/23 13:39	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/12/23 13:39	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/12/23 13:39	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/12/23 13:39	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/12/23 13:39	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/12/23 13:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 124*		*10/12/23 13:39*	*1*
4-Bromofluorobenzene (Surr)	*77*		*70 - 130*		*10/12/23 13:39*	*1*
Dibromofluoromethane (Surr)	*108*		*70 - 130*		*10/12/23 13:39*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*10/12/23 13:39*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-802239/5
Matrix: Water
Analysis Batch: 802239

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	50.5		ug/L		101	70 - 130
1,1,2,2-Tetrachloroethane	50.0	42.3		ug/L		85	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	57.7		ug/L		115	63 - 141
1,1,2-Trichloroethane	50.0	46.7		ug/L		93	70 - 130
1,1-Dichloroethane	50.0	46.2		ug/L		92	70 - 130
1,1-Dichloroethene	50.0	47.3		ug/L		95	70 - 130
1,2,4-Trichlorobenzene	50.0	42.4		ug/L		85	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	30.0	J3	ug/L		60	70 - 130
1,2-Dibromoethane (EDB)	50.0	50.4		ug/L		101	70 - 130
1,2-Dichlorobenzene	50.0	44.9		ug/L		90	70 - 130
1,2-Dichloroethane	50.0	51.8		ug/L		104	70 - 130
1,2-Dichloropropane	50.0	44.6		ug/L		89	70 - 130
1,3-Dichlorobenzene	50.0	45.8		ug/L		92	70 - 130
1,4-Dichlorobenzene	50.0	46.4		ug/L		93	70 - 130
2-Butanone (MEK)	250	206		ug/L		82	69 - 120
2-Hexanone	250	199		ug/L		79	70 - 130
4-Methyl-2-pentanone	250	207		ug/L		83	68 - 120
Acetone	250	187		ug/L		75	67 - 120
Benzene	50.0	46.2		ug/L		92	70 - 130
Bromodichloromethane	50.0	50.0		ug/L		100	70 - 130
Bromoform	50.0	53.2		ug/L		106	69 - 129
Bromomethane	50.0	94.0		ug/L		188	28 - 192
Carbon disulfide	50.0	45.5		ug/L		91	70 - 130
Carbon tetrachloride	50.0	56.4		ug/L		113	70 - 130
Chlorobenzene	50.0	50.9		ug/L		102	70 - 130
Chloroethane	50.0	123	J3	ug/L		246	31 - 213
Chloroform	50.0	51.6		ug/L		103	70 - 130
Chloromethane	50.0	37.1		ug/L		74	59 - 127
cis-1,2-Dichloroethene	50.0	47.7		ug/L		95	70 - 130
cis-1,3-Dichloropropene	50.0	47.2		ug/L		94	70 - 130
Cyclohexane	50.0	44.9		ug/L		90	23 - 175
Dibromochloromethane	50.0	53.1		ug/L		106	70 - 130
Dichlorodifluoromethane	50.0	52.9		ug/L		106	70 - 130
Ethylbenzene	50.0	49.8		ug/L		100	70 - 130
Isopropylbenzene	50.0	50.4		ug/L		101	70 - 130
m,p-Xylenes	50.0	48.5		ug/L		97	70 - 130
Methyl acetate	100	68.6		ug/L		69	67 - 120
Methyl tert-butyl ether	50.0	47.8		ug/L		96	70 - 130
Methylene Chloride	50.0	51.9		ug/L		104	70 - 130
o-Xylene	50.0	48.5		ug/L		97	70 - 130
Styrene	50.0	49.5		ug/L		99	70 - 130
Tetrachloroethene	50.0	53.9		ug/L		108	70 - 130
Toluene	50.0	47.0		ug/L		94	70 - 130
trans-1,2-Dichloroethene	50.0	49.0		ug/L		98	70 - 130
trans-1,3-Dichloropropene	50.0	49.2		ug/L		98	70 - 130
Trichloroethene	50.0	51.7		ug/L		103	70 - 130
Trichlorofluoromethane	50.0	108	J3	ug/L		215	63 - 142
Vinyl chloride	50.0	44.7		ug/L		89	66 - 129

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-802239/5
Matrix: Water
Analysis Batch: 802239

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Xylenes, Total			100	97.0		ug/L		97	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*112*		*60 - 124*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*
Dibromofluoromethane (Surr)	*115*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 680-802239/6
Matrix: Water
Analysis Batch: 802239

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane			50.0	50.7		ug/L		101	70 - 130	0	30
1,1,2,2-Tetrachloroethane			50.0	41.6		ug/L		83	70 - 130	2	30
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	57.5		ug/L		115	63 - 141	0	30
1,1,2-Trichloroethane			50.0	43.9		ug/L		88	70 - 130	6	30
1,1-Dichloroethane			50.0	44.9		ug/L		90	70 - 130	3	30
1,1-Dichloroethene			50.0	47.4		ug/L		95	70 - 130	0	20
1,2,4-Trichlorobenzene			50.0	42.7		ug/L		85	70 - 130	1	30
1,2-Dibromo-3-Chloropropane			50.0	30.9	J3	ug/L		62	70 - 130	3	30
1,2-Dibromoethane (EDB)			50.0	47.1		ug/L		94	70 - 130	7	30
1,2-Dichlorobenzene			50.0	45.9		ug/L		92	70 - 130	2	30
1,2-Dichloroethane			50.0	48.7		ug/L		97	70 - 130	6	50
1,2-Dichloropropane			50.0	43.1		ug/L		86	70 - 130	3	20
1,3-Dichlorobenzene			50.0	46.8		ug/L		94	70 - 130	2	30
1,4-Dichlorobenzene			50.0	47.4		ug/L		95	70 - 130	2	30
2-Butanone (MEK)			250	180		ug/L		72	69 - 120	13	30
2-Hexanone			250	178		ug/L		71	70 - 130	11	20
4-Methyl-2-pentanone			250	190		ug/L		76	68 - 120	9	30
Acetone			250	168		ug/L		67	67 - 120	11	30
Benzene			50.0	46.0		ug/L		92	70 - 130	0	30
Bromodichloromethane			50.0	48.2		ug/L		96	70 - 130	4	30
Bromoform			50.0	51.7		ug/L		103	69 - 129	3	30
Bromomethane			50.0	96.8	J3	ug/L		194	28 - 192	3	30
Carbon disulfide			50.0	43.9		ug/L		88	70 - 130	4	30
Carbon tetrachloride			50.0	55.6		ug/L		111	70 - 130	1	30
Chlorobenzene			50.0	51.4		ug/L		103	70 - 130	1	30
Chloroethane			50.0	122	J3	ug/L		243	31 - 213	1	30
Chloroform			50.0	50.4		ug/L		101	70 - 130	2	30
Chloromethane			50.0	37.0		ug/L		74	59 - 127	0	30
cis-1,2-Dichloroethene			50.0	47.3		ug/L		95	70 - 130	1	30
cis-1,3-Dichloropropene			50.0	44.4		ug/L		89	70 - 130	6	20
Cyclohexane			50.0	44.3		ug/L		89	23 - 175	1	30
Dibromochloromethane			50.0	50.4		ug/L		101	70 - 130	5	30
Dichlorodifluoromethane			50.0	53.1		ug/L		106	70 - 130	0	40
Ethylbenzene			50.0	50.1		ug/L		100	70 - 130	0	20
Isopropylbenzene			50.0	50.3		ug/L		101	70 - 130	0	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-802239/6
Matrix: Water
Analysis Batch: 802239

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m,p-Xylenes			50.0	48.6		ug/L		97	70 - 130	0	30
Methyl acetate			100	62.7	J3	ug/L		63	67 - 120	9	30
Methyl tert-butyl ether			50.0	44.0		ug/L		88	70 - 130	8	30
Methylene Chloride			50.0	49.5		ug/L		99	70 - 130	5	30
o-Xylene			50.0	48.8		ug/L		98	70 - 130	1	30
Styrene			50.0	49.4		ug/L		99	70 - 130	0	30
Tetrachloroethene			50.0	54.9		ug/L		110	70 - 130	2	30
Toluene			50.0	46.4		ug/L		93	70 - 130	1	30
trans-1,2-Dichloroethene			50.0	48.8		ug/L		98	70 - 130	0	30
trans-1,3-Dichloropropene			50.0	46.7		ug/L		93	70 - 130	5	30
Trichloroethene			50.0	51.7		ug/L		103	70 - 130	0	30
Trichlorofluoromethane			50.0	106	J3	ug/L		212	63 - 142	1	30
Vinyl chloride			50.0	46.0		ug/L		92	66 - 129	3	30
Xylenes, Total			100	97.4		ug/L		97	70 - 130	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 124*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*
Dibromofluoromethane (Surr)	*111*		*70 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*

Lab Sample ID: MB 680-802248/8
Matrix: Water
Analysis Batch: 802248

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/12/23 14:25	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/12/23 14:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/12/23 14:25	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/12/23 14:25	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/12/23 14:25	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/12/23 14:25	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/12/23 14:25	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/12/23 14:25	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/12/23 14:25	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/12/23 14:25	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/12/23 14:25	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/12/23 14:25	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/12/23 14:25	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/12/23 14:25	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/12/23 14:25	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/12/23 14:25	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/12/23 14:25	1
Acetone	3.7	U	10	3.7	ug/L			10/12/23 14:25	1
Benzene	0.27	U	1.0	0.27	ug/L			10/12/23 14:25	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/12/23 14:25	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/12/23 14:25	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/12/23 14:25	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-802248/8
Matrix: Water
Analysis Batch: 802248

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/12/23 14:25	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/12/23 14:25	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/12/23 14:25	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/12/23 14:25	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/12/23 14:25	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/12/23 14:25	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/12/23 14:25	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/12/23 14:25	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/12/23 14:25	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/12/23 14:25	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/12/23 14:25	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/12/23 14:25	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/12/23 14:25	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/12/23 14:25	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/12/23 14:25	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/12/23 14:25	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/12/23 14:25	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/12/23 14:25	1
Styrene	0.27	U	1.0	0.27	ug/L			10/12/23 14:25	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/12/23 14:25	1
Toluene	0.25	U	1.0	0.25	ug/L			10/12/23 14:25	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/12/23 14:25	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/12/23 14:25	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/12/23 14:25	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/12/23 14:25	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/12/23 14:25	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/12/23 14:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*60 - 124*		*10/12/23 14:25*	*1*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*		*10/12/23 14:25*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*10/12/23 14:25*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*10/12/23 14:25*	*1*

Lab Sample ID: LCS 680-802248/4
Matrix: Water
Analysis Batch: 802248

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	52.7		ug/L		105	70 - 130
1,1,2,2-Tetrachloroethane	50.0	49.4		ug/L		99	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	52.1		ug/L		104	63 - 141
1,1,2-Trichloroethane	50.0	51.1		ug/L		102	70 - 130
1,1-Dichloroethane	50.0	51.8		ug/L		104	70 - 130
1,1-Dichloroethene	50.0	55.1		ug/L		110	70 - 130
1,2,4-Trichlorobenzene	50.0	41.8		ug/L		84	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	44.7		ug/L		89	70 - 130
1,2-Dibromoethane (EDB)	50.0	52.6		ug/L		105	70 - 130

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-802248/4
Matrix: Water
Analysis Batch: 802248

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichlorobenzene	50.0	49.7		ug/L		99	70 - 130
1,2-Dichloroethane	50.0	51.8		ug/L		104	70 - 130
1,2-Dichloropropane	50.0	50.1		ug/L		100	70 - 130
1,3-Dichlorobenzene	50.0	50.3		ug/L		101	70 - 130
1,4-Dichlorobenzene	50.0	51.4		ug/L		103	70 - 130
2-Butanone (MEK)	250	218		ug/L		87	69 - 120
2-Hexanone	250	247		ug/L		99	70 - 130
4-Methyl-2-pentanone	250	214		ug/L		86	68 - 120
Acetone	250	235		ug/L		94	67 - 120
Benzene	50.0	51.3		ug/L		103	70 - 130
Bromodichloromethane	50.0	52.4		ug/L		105	70 - 130
Bromoform	50.0	43.3		ug/L		87	69 - 129
Bromomethane	50.0	64.5		ug/L		129	28 - 192
Carbon disulfide	50.0	53.0		ug/L		106	70 - 130
Carbon tetrachloride	50.0	49.3		ug/L		99	70 - 130
Chlorobenzene	50.0	50.4		ug/L		101	70 - 130
Chloroethane	50.0	56.7		ug/L		113	31 - 213
Chloroform	50.0	52.4		ug/L		105	70 - 130
Chloromethane	50.0	54.4		ug/L		109	59 - 127
cis-1,2-Dichloroethene	50.0	52.3		ug/L		105	70 - 130
cis-1,3-Dichloropropene	50.0	52.4		ug/L		105	70 - 130
Cyclohexane	50.0	51.4		ug/L		103	23 - 175
Dibromochloromethane	50.0	45.4		ug/L		91	70 - 130
Dichlorodifluoromethane	50.0	60.5		ug/L		121	70 - 130
Ethylbenzene	50.0	50.6		ug/L		101	70 - 130
Isopropylbenzene	50.0	50.2		ug/L		100	70 - 130
m,p-Xylenes	50.0	52.0		ug/L		104	70 - 130
Methyl acetate	100	102		ug/L		102	67 - 120
Methyl tert-butyl ether	50.0	46.6		ug/L		93	70 - 130
Methylene Chloride	50.0	50.5		ug/L		101	70 - 130
o-Xylene	50.0	50.7		ug/L		101	70 - 130
Styrene	50.0	51.3		ug/L		103	70 - 130
Tetrachloroethene	50.0	49.7		ug/L		99	70 - 130
Toluene	50.0	49.9		ug/L		100	70 - 130
trans-1,2-Dichloroethene	50.0	52.6		ug/L		105	70 - 130
trans-1,3-Dichloropropene	50.0	47.9		ug/L		96	70 - 130
Trichloroethene	50.0	49.6		ug/L		99	70 - 130
Trichlorofluoromethane	50.0	95.8	J3	ug/L		192	63 - 142
Vinyl chloride	50.0	57.6		ug/L		115	66 - 129
Xylenes, Total	100	103		ug/L		103	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*111*		*60 - 124*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
Dibromofluoromethane (Surr)	*103*		*70 - 130*
Toluene-d8 (Surr)	*97*		*70 - 130*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-802248/5
Matrix: Water
Analysis Batch: 802248

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	50.0	54.0		ug/L		108	70 - 130	2	30
1,1,2,2-Tetrachloroethane	50.0	49.6		ug/L		99	70 - 130	0	30
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	53.4		ug/L		107	63 - 141	2	30
1,1,2-Trichloroethane	50.0	52.1		ug/L		104	70 - 130	2	30
1,1-Dichloroethane	50.0	53.0		ug/L		106	70 - 130	2	30
1,1-Dichloroethene	50.0	56.0		ug/L		112	70 - 130	2	20
1,2,4-Trichlorobenzene	50.0	42.7		ug/L		85	70 - 130	2	30
1,2-Dibromo-3-Chloropropane	50.0	44.7		ug/L		89	70 - 130	0	30
1,2-Dibromoethane (EDB)	50.0	54.2		ug/L		108	70 - 130	3	30
1,2-Dichlorobenzene	50.0	51.5		ug/L		103	70 - 130	4	30
1,2-Dichloroethane	50.0	53.2		ug/L		106	70 - 130	3	50
1,2-Dichloropropane	50.0	51.6		ug/L		103	70 - 130	3	20
1,3-Dichlorobenzene	50.0	51.9		ug/L		104	70 - 130	3	30
1,4-Dichlorobenzene	50.0	52.3		ug/L		105	70 - 130	2	30
2-Butanone (MEK)	250	226		ug/L		90	69 - 120	3	30
2-Hexanone	250	258		ug/L		103	70 - 130	4	20
4-Methyl-2-pentanone	250	225		ug/L		90	68 - 120	5	30
Acetone	250	240		ug/L		96	67 - 120	2	30
Benzene	50.0	52.1		ug/L		104	70 - 130	2	30
Bromodichloromethane	50.0	53.5		ug/L		107	70 - 130	2	30
Bromoform	50.0	43.9		ug/L		88	69 - 129	1	30
Bromomethane	50.0	63.5		ug/L		127	28 - 192	2	30
Carbon disulfide	50.0	53.6		ug/L		107	70 - 130	1	30
Carbon tetrachloride	50.0	50.7		ug/L		101	70 - 130	3	30
Chlorobenzene	50.0	51.2		ug/L		102	70 - 130	2	30
Chloroethane	50.0	57.1		ug/L		114	31 - 213	1	30
Chloroform	50.0	52.8		ug/L		106	70 - 130	1	30
Chloromethane	50.0	53.9		ug/L		108	59 - 127	1	30
cis-1,2-Dichloroethene	50.0	52.2		ug/L		104	70 - 130	0	30
cis-1,3-Dichloropropene	50.0	54.4		ug/L		109	70 - 130	4	20
Cyclohexane	50.0	52.7		ug/L		105	23 - 175	2	30
Dibromochloromethane	50.0	47.3		ug/L		95	70 - 130	4	30
Dichlorodifluoromethane	50.0	61.7		ug/L		123	70 - 130	2	40
Ethylbenzene	50.0	50.9		ug/L		102	70 - 130	0	20
Isopropylbenzene	50.0	50.0		ug/L		100	70 - 130	0	30
m,p-Xylenes	50.0	51.8		ug/L		104	70 - 130	0	30
Methyl acetate	100	106		ug/L		106	67 - 120	4	30
Methyl tert-butyl ether	50.0	47.2		ug/L		94	70 - 130	1	30
Methylene Chloride	50.0	51.0		ug/L		102	70 - 130	1	30
o-Xylene	50.0	51.2		ug/L		102	70 - 130	1	30
Styrene	50.0	51.4		ug/L		103	70 - 130	0	30
Tetrachloroethene	50.0	51.8		ug/L		104	70 - 130	4	30
Toluene	50.0	51.1		ug/L		102	70 - 130	2	30
trans-1,2-Dichloroethene	50.0	54.0		ug/L		108	70 - 130	3	30
trans-1,3-Dichloropropene	50.0	49.6		ug/L		99	70 - 130	4	30
Trichloroethene	50.0	51.7		ug/L		103	70 - 130	4	30
Trichlorofluoromethane	50.0	94.7	J3	ug/L		189	63 - 142	1	30
Vinyl chloride	50.0	57.8		ug/L		116	66 - 129	0	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-802248/5
Matrix: Water
Analysis Batch: 802248

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Xylenes, Total			100	103		ug/L		103	70 - 130	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 124*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
Dibromofluoromethane (Surr)	*106*		*70 - 130*
Toluene-d8 (Surr)	*99*		*70 - 130*

Lab Sample ID: MB 680-802487/7
Matrix: Water
Analysis Batch: 802487

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/13/23 12:47	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/13/23 12:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/13/23 12:47	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/13/23 12:47	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/13/23 12:47	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/13/23 12:47	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/13/23 12:47	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/13/23 12:47	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/13/23 12:47	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/13/23 12:47	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/13/23 12:47	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/13/23 12:47	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/13/23 12:47	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/13/23 12:47	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/13/23 12:47	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/13/23 12:47	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/13/23 12:47	1
Acetone	3.7	U	10	3.7	ug/L			10/13/23 12:47	1
Benzene	0.27	U	1.0	0.27	ug/L			10/13/23 12:47	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/13/23 12:47	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/13/23 12:47	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/13/23 12:47	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/13/23 12:47	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/13/23 12:47	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/13/23 12:47	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/13/23 12:47	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/13/23 12:47	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/13/23 12:47	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/13/23 12:47	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/13/23 12:47	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/13/23 12:47	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/13/23 12:47	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/13/23 12:47	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/13/23 12:47	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/13/23 12:47	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-802487/7
Matrix: Water
Analysis Batch: 802487

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/13/23 12:47	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/13/23 12:47	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/13/23 12:47	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/13/23 12:47	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/13/23 12:47	1
Styrene	0.27	U	1.0	0.27	ug/L			10/13/23 12:47	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/13/23 12:47	1
Toluene	0.25	U	1.0	0.25	ug/L			10/13/23 12:47	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/13/23 12:47	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/13/23 12:47	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/13/23 12:47	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/13/23 12:47	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/13/23 12:47	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/13/23 12:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*60 - 124*		*10/13/23 12:47*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*10/13/23 12:47*	*1*
Dibromofluoromethane (Surr)	*105*		*70 - 130*		*10/13/23 12:47*	*1*
Toluene-d8 (Surr)	*91*		*70 - 130*		*10/13/23 12:47*	*1*

Lab Sample ID: LCS 680-802487/3
Matrix: Water
Analysis Batch: 802487

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	54.0		ug/L		108	70 - 130
1,1,2,2-Tetrachloroethane	50.0	53.8		ug/L		108	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	52.4		ug/L		105	63 - 141
1,1,2-Trichloroethane	50.0	47.8		ug/L		96	70 - 130
1,1-Dichloroethane	50.0	54.0		ug/L		108	70 - 130
1,1-Dichloroethene	50.0	50.9		ug/L		102	70 - 130
1,2,4-Trichlorobenzene	50.0	51.1		ug/L		102	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	54.4		ug/L		109	70 - 130
1,2-Dibromoethane (EDB)	50.0	49.6		ug/L		99	70 - 130
1,2-Dichlorobenzene	50.0	51.4		ug/L		103	70 - 130
1,2-Dichloroethane	50.0	52.8		ug/L		106	70 - 130
1,2-Dichloropropane	50.0	48.4		ug/L		97	70 - 130
1,3-Dichlorobenzene	50.0	50.8		ug/L		102	70 - 130
1,4-Dichlorobenzene	50.0	50.0		ug/L		100	70 - 130
2-Butanone (MEK)	250	324	J3	ug/L		129	69 - 120
2-Hexanone	250	302		ug/L		121	70 - 130
4-Methyl-2-pentanone	250	279		ug/L		112	68 - 120
Acetone	250	380	J3	ug/L		152	67 - 120
Benzene	50.0	51.2		ug/L		102	70 - 130
Bromodichloromethane	50.0	50.6		ug/L		101	70 - 130
Bromoform	50.0	46.0		ug/L		92	69 - 129
Bromomethane	50.0	39.1		ug/L		78	28 - 192

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-802487/3
Matrix: Water
Analysis Batch: 802487

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Carbon disulfide	50.0	51.4		ug/L		103	70 - 130
Carbon tetrachloride	50.0	53.1		ug/L		106	70 - 130
Chlorobenzene	50.0	50.2		ug/L		100	70 - 130
Chloroethane	50.0	33.1		ug/L		66	31 - 213
Chloroform	50.0	48.7		ug/L		97	70 - 130
Chloromethane	50.0	53.5		ug/L		107	59 - 127
cis-1,2-Dichloroethene	50.0	53.1		ug/L		106	70 - 130
cis-1,3-Dichloropropene	50.0	47.2		ug/L		94	70 - 130
Cyclohexane	50.0	48.9		ug/L		98	23 - 175
Dibromochloromethane	50.0	46.8		ug/L		94	70 - 130
Dichlorodifluoromethane	50.0	44.7		ug/L		89	70 - 130
Ethylbenzene	50.0	51.3		ug/L		103	70 - 130
Isopropylbenzene	50.0	53.0		ug/L		106	70 - 130
m,p-Xylenes	50.0	50.0		ug/L		100	70 - 130
Methyl acetate	100	93.9		ug/L		94	67 - 120
Methyl tert-butyl ether	50.0	51.0		ug/L		102	70 - 130
Methylene Chloride	50.0	55.1		ug/L		110	70 - 130
o-Xylene	50.0	52.0		ug/L		104	70 - 130
Styrene	50.0	53.3		ug/L		107	70 - 130
Tetrachloroethene	50.0	51.9		ug/L		104	70 - 130
Toluene	50.0	55.2		ug/L		110	70 - 130
trans-1,2-Dichloroethene	50.0	55.0		ug/L		110	70 - 130
trans-1,3-Dichloropropene	50.0	46.6		ug/L		93	70 - 130
Trichloroethene	50.0	49.3		ug/L		99	70 - 130
Trichlorofluoromethane	50.0	47.6		ug/L		95	63 - 142
Vinyl chloride	50.0	50.9		ug/L		102	66 - 129
Xylenes, Total	100	102		ug/L		102	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 124*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
Dibromofluoromethane (Surr)	*105*		*70 - 130*
Toluene-d8 (Surr)	*95*		*70 - 130*

Lab Sample ID: LCSD 680-802487/4
Matrix: Water
Analysis Batch: 802487

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	50.0	53.3		ug/L		107	70 - 130	1	30
1,1,2,2-Tetrachloroethane	50.0	55.0		ug/L		110	70 - 130	2	30
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	51.2		ug/L		102	63 - 141	2	30
1,1,2-Trichloroethane	50.0	49.6		ug/L		99	70 - 130	4	30
1,1-Dichloroethane	50.0	53.8		ug/L		108	70 - 130	0	30
1,1-Dichloroethene	50.0	42.5		ug/L		85	70 - 130	18	20
1,2,4-Trichlorobenzene	50.0	49.8		ug/L		100	70 - 130	3	30
1,2-Dibromo-3-Chloropropane	50.0	56.9		ug/L		114	70 - 130	4	30
1,2-Dibromoethane (EDB)	50.0	51.3		ug/L		103	70 - 130	3	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-802487/4
Matrix: Water
Analysis Batch: 802487

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dichlorobenzene			50.0	50.8		ug/L		102	70 - 130	1	30
1,2-Dichloroethane			50.0	52.7		ug/L		105	70 - 130	0	50
1,2-Dichloropropane			50.0	48.4		ug/L		97	70 - 130	0	20
1,3-Dichlorobenzene			50.0	51.3		ug/L		103	70 - 130	1	30
1,4-Dichlorobenzene			50.0	50.2		ug/L		100	70 - 130	0	30
2-Butanone (MEK)			250	343	J3	ug/L		137	69 - 120	6	30
2-Hexanone			250	316		ug/L		126	70 - 130	5	20
4-Methyl-2-pentanone			250	291		ug/L		116	68 - 120	4	30
Acetone			250	387	J3	ug/L		155	67 - 120	2	30
Benzene			50.0	50.8		ug/L		102	70 - 130	1	30
Bromodichloromethane			50.0	50.7		ug/L		101	70 - 130	0	30
Bromoform			50.0	47.4		ug/L		95	69 - 129	3	30
Bromomethane			50.0	39.1		ug/L		78	28 - 192	0	30
Carbon disulfide			50.0	50.5		ug/L		101	70 - 130	2	30
Carbon tetrachloride			50.0	50.3		ug/L		101	70 - 130	5	30
Chlorobenzene			50.0	50.3		ug/L		101	70 - 130	0	30
Chloroethane			50.0	31.9		ug/L		64	31 - 213	4	30
Chloroform			50.0	48.6		ug/L		97	70 - 130	0	30
Chloromethane			50.0	52.3		ug/L		105	59 - 127	2	30
cis-1,2-Dichloroethene			50.0	53.5		ug/L		107	70 - 130	1	30
cis-1,3-Dichloropropene			50.0	47.4		ug/L		95	70 - 130	0	20
Cyclohexane			50.0	48.4		ug/L		97	23 - 175	1	30
Dibromochloromethane			50.0	47.8		ug/L		96	70 - 130	2	30
Dichlorodifluoromethane			50.0	44.1		ug/L		88	70 - 130	1	40
Ethylbenzene			50.0	50.7		ug/L		101	70 - 130	1	20
Isopropylbenzene			50.0	52.1		ug/L		104	70 - 130	2	30
m,p-Xylenes			50.0	50.7		ug/L		101	70 - 130	1	30
Methyl acetate			100	95.7		ug/L		96	67 - 120	2	30
Methyl tert-butyl ether			50.0	52.0		ug/L		104	70 - 130	2	30
Methylene Chloride			50.0	56.4		ug/L		113	70 - 130	2	30
o-Xylene			50.0	51.8		ug/L		104	70 - 130	0	30
Styrene			50.0	53.7		ug/L		107	70 - 130	1	30
Tetrachloroethene			50.0	52.1		ug/L		104	70 - 130	0	30
Toluene			50.0	55.5		ug/L		111	70 - 130	0	30
trans-1,2-Dichloroethene			50.0	54.6		ug/L		109	70 - 130	1	30
trans-1,3-Dichloropropene			50.0	47.9		ug/L		96	70 - 130	3	30
Trichloroethene			50.0	49.3		ug/L		99	70 - 130	0	30
Trichlorofluoromethane			50.0	51.4		ug/L		103	63 - 142	8	30
Vinyl chloride			50.0	48.1		ug/L		96	66 - 129	6	30
Xylenes, Total			100	103		ug/L		103	70 - 130	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 124*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
Dibromofluoromethane (Surr)	*102*		*70 - 130*
Toluene-d8 (Surr)	*94*		*70 - 130*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-802610/9
Matrix: Water
Analysis Batch: 802610

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/14/23 15:12	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/14/23 15:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/14/23 15:12	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/14/23 15:12	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/14/23 15:12	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/14/23 15:12	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/14/23 15:12	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/14/23 15:12	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/14/23 15:12	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/14/23 15:12	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/14/23 15:12	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/14/23 15:12	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/14/23 15:12	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/14/23 15:12	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/14/23 15:12	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/14/23 15:12	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/14/23 15:12	1
Acetone	3.7	U	10	3.7	ug/L			10/14/23 15:12	1
Benzene	0.27	U	1.0	0.27	ug/L			10/14/23 15:12	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/14/23 15:12	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/14/23 15:12	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/14/23 15:12	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/14/23 15:12	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/14/23 15:12	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/14/23 15:12	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/14/23 15:12	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/14/23 15:12	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/14/23 15:12	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/14/23 15:12	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/14/23 15:12	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/14/23 15:12	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/14/23 15:12	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/14/23 15:12	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/14/23 15:12	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/14/23 15:12	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/14/23 15:12	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/14/23 15:12	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/14/23 15:12	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/14/23 15:12	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/14/23 15:12	1
Styrene	0.27	U	1.0	0.27	ug/L			10/14/23 15:12	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/14/23 15:12	1
Toluene	0.25	U	1.0	0.25	ug/L			10/14/23 15:12	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/14/23 15:12	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/14/23 15:12	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/14/23 15:12	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/14/23 15:12	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/14/23 15:12	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-802610/9
Matrix: Water
Analysis Batch: 802610

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/14/23 15:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*60 - 124*		*10/14/23 15:12*	*1*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*10/14/23 15:12*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*10/14/23 15:12*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*10/14/23 15:12*	*1*

Lab Sample ID: LCS 680-802610/5
Matrix: Water
Analysis Batch: 802610

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	50.5		ug/L		101	70 - 130
1,1,2,2-Tetrachloroethane	50.0	47.0		ug/L		94	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	51.6		ug/L		103	63 - 141
1,1,2-Trichloroethane	50.0	49.6		ug/L		99	70 - 130
1,1-Dichloroethane	50.0	50.3		ug/L		101	70 - 130
1,1-Dichloroethene	50.0	53.2		ug/L		106	70 - 130
1,2,4-Trichlorobenzene	50.0	40.9		ug/L		82	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	38.8		ug/L		78	70 - 130
1,2-Dibromoethane (EDB)	50.0	51.2		ug/L		102	70 - 130
1,2-Dichlorobenzene	50.0	47.9		ug/L		96	70 - 130
1,2-Dichloroethane	50.0	50.5		ug/L		101	70 - 130
1,2-Dichloropropane	50.0	49.3		ug/L		99	70 - 130
1,3-Dichlorobenzene	50.0	48.6		ug/L		97	70 - 130
1,4-Dichlorobenzene	50.0	49.4		ug/L		99	70 - 130
2-Butanone (MEK)	250	205		ug/L		82	69 - 120
2-Hexanone	250	236		ug/L		94	70 - 130
4-Methyl-2-pentanone	250	208		ug/L		83	68 - 120
Acetone	250	218		ug/L		87	67 - 120
Benzene	50.0	49.6		ug/L		99	70 - 130
Bromodichloromethane	50.0	51.3		ug/L		103	70 - 130
Bromoform	50.0	41.7		ug/L		83	69 - 129
Bromomethane	50.0	56.3		ug/L		113	28 - 192
Carbon disulfide	50.0	51.1		ug/L		102	70 - 130
Carbon tetrachloride	50.0	47.6		ug/L		95	70 - 130
Chlorobenzene	50.0	50.1		ug/L		100	70 - 130
Chloroethane	50.0	50.9		ug/L		102	31 - 213
Chloroform	50.0	50.6		ug/L		101	70 - 130
Chloromethane	50.0	57.0		ug/L		114	59 - 127
cis-1,2-Dichloroethene	50.0	50.1		ug/L		100	70 - 130
cis-1,3-Dichloropropene	50.0	51.9		ug/L		104	70 - 130
Cyclohexane	50.0	50.3		ug/L		101	23 - 175
Dibromochloromethane	50.0	45.2		ug/L		90	70 - 130
Dichlorodifluoromethane	50.0	47.3		ug/L		95	70 - 130
Ethylbenzene	50.0	49.7		ug/L		99	70 - 130
Isopropylbenzene	50.0	49.6		ug/L		99	70 - 130

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-802610/5
Matrix: Water
Analysis Batch: 802610

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
m,p-Xylenes			50.0	51.0		ug/L		102	70 - 130		
Methyl acetate			100	95.2		ug/L		95	67 - 120		
Methyl tert-butyl ether			50.0	45.8		ug/L		92	70 - 130		
Methylene Chloride			50.0	48.7		ug/L		97	70 - 130		
o-Xylene			50.0	50.5		ug/L		101	70 - 130		
Styrene			50.0	50.5		ug/L		101	70 - 130		
Tetrachloroethene			50.0	48.0		ug/L		96	70 - 130		
Toluene			50.0	48.1		ug/L		96	70 - 130		
trans-1,2-Dichloroethene			50.0	50.3		ug/L		101	70 - 130		
trans-1,3-Dichloropropene			50.0	46.5		ug/L		93	70 - 130		
Trichloroethene			50.0	49.2		ug/L		98	70 - 130		
Trichlorofluoromethane			50.0	81.3	J3	ug/L		163	63 - 142		
Vinyl chloride			50.0	47.0		ug/L		94	66 - 129		
Xylenes, Total			100	102		ug/L		102	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 124*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*95*		*70 - 130*

Lab Sample ID: LCSD 680-802610/6
Matrix: Water
Analysis Batch: 802610

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane			50.0	49.7		ug/L		99	70 - 130	2	30
1,1,2,2-Tetrachloroethane			50.0	45.6		ug/L		91	70 - 130	3	30
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	50.9		ug/L		102	63 - 141	1	30
1,1,2-Trichloroethane			50.0	48.4		ug/L		97	70 - 130	2	30
1,1-Dichloroethane			50.0	50.1		ug/L		100	70 - 130	0	30
1,1-Dichloroethene			50.0	52.9		ug/L		106	70 - 130	1	20
1,2,4-Trichlorobenzene			50.0	39.4		ug/L		79	70 - 130	4	30
1,2-Dibromo-3-Chloropropane			50.0	38.5		ug/L		77	70 - 130	1	30
1,2-Dibromoethane (EDB)			50.0	49.5		ug/L		99	70 - 130	3	30
1,2-Dichlorobenzene			50.0	48.1		ug/L		96	70 - 130	0	30
1,2-Dichloroethane			50.0	49.9		ug/L		100	70 - 130	1	50
1,2-Dichloropropane			50.0	48.7		ug/L		97	70 - 130	1	20
1,3-Dichlorobenzene			50.0	48.1		ug/L		96	70 - 130	1	30
1,4-Dichlorobenzene			50.0	49.0		ug/L		98	70 - 130	1	30
2-Butanone (MEK)			250	198		ug/L		79	69 - 120	3	30
2-Hexanone			250	231		ug/L		92	70 - 130	2	20
4-Methyl-2-pentanone			250	203		ug/L		81	68 - 120	2	30
Acetone			250	215		ug/L		86	67 - 120	1	30
Benzene			50.0	49.0		ug/L		98	70 - 130	1	30
Bromodichloromethane			50.0	50.6		ug/L		101	70 - 130	1	30
Bromoform			50.0	40.8		ug/L		82	69 - 129	2	30
Bromomethane			50.0	56.1		ug/L		112	28 - 192	0	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-802610/6
Matrix: Water
Analysis Batch: 802610

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon disulfide			50.0	50.6		ug/L		101	70 - 130	1	30
Carbon tetrachloride			50.0	47.5		ug/L		95	70 - 130	0	30
Chlorobenzene			50.0	49.3		ug/L		99	70 - 130	2	30
Chloroethane			50.0	50.8		ug/L		102	31 - 213	0	30
Chloroform			50.0	49.7		ug/L		99	70 - 130	2	30
Chloromethane			50.0	43.2		ug/L		86	59 - 127	28	30
cis-1,2-Dichloroethene			50.0	49.9		ug/L		100	70 - 130	0	30
cis-1,3-Dichloropropene			50.0	50.1		ug/L		100	70 - 130	3	20
Cyclohexane			50.0	49.2		ug/L		98	23 - 175	2	30
Dibromochloromethane			50.0	43.7		ug/L		87	70 - 130	3	30
Dichlorodifluoromethane			50.0	47.8		ug/L		96	70 - 130	1	40
Ethylbenzene			50.0	48.7		ug/L		97	70 - 130	2	20
Isopropylbenzene			50.0	48.9		ug/L		98	70 - 130	1	30
m,p-Xylenes			50.0	50.0		ug/L		100	70 - 130	2	30
Methyl acetate			100	95.0		ug/L		95	67 - 120	0	30
Methyl tert-butyl ether			50.0	43.5		ug/L		87	70 - 130	5	30
Methylene Chloride			50.0	48.7		ug/L		97	70 - 130	0	30
o-Xylene			50.0	49.4		ug/L		99	70 - 130	2	30
Styrene			50.0	49.3		ug/L		99	70 - 130	2	30
Tetrachloroethene			50.0	48.0		ug/L		96	70 - 130	0	30
Toluene			50.0	47.8		ug/L		96	70 - 130	0	30
trans-1,2-Dichloroethene			50.0	50.1		ug/L		100	70 - 130	0	30
trans-1,3-Dichloropropene			50.0	46.3		ug/L		93	70 - 130	0	30
Trichloroethene			50.0	49.1		ug/L		98	70 - 130	0	30
Trichlorofluoromethane			50.0	82.5	J3	ug/L		165	63 - 142	2	30
Vinyl chloride			50.0	47.7		ug/L		95	66 - 129	2	30
Xylenes, Total			100	99.4		ug/L		99	70 - 130	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 124*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
Dibromofluoromethane (Surr)	*100*		*70 - 130*
Toluene-d8 (Surr)	*93*		*70 - 130*

Lab Sample ID: 680-241324-A-2-B MS
Matrix: Water
Analysis Batch: 802234

Client Sample ID: Matrix Spike
Prep Type: TCLP

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	4.2	U	1000	995		ug/L		99	70 - 130
1,1,2,2-Tetrachloroethane	8.0	U	1000	1010		ug/L		101	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	4.6	U	1000	1280		ug/L		128	63 - 141
1,1,2-Trichloroethane	6.4	U	1000	933		ug/L		93	70 - 130
1,1-Dichloroethane	6.6	U	1000	876		ug/L		88	70 - 130
1,1-Dichloroethene	6.6	U	1000	1040		ug/L		104	70 - 130
1,2,4-Trichlorobenzene	11	U	1000	988		ug/L		99	70 - 130
1,2-Dibromo-3-Chloropropane	36	U	1000	894		ug/L		89	70 - 130
1,2-Dibromoethane (EDB)	6.6	U	1000	1030		ug/L		103	70 - 130

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 680-241324-A-2-B MS
Matrix: Water
Analysis Batch: 802234

Client Sample ID: Matrix Spike
Prep Type: TCLP

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichlorobenzene	6.2	U	1000	1110		ug/L		111	70 - 130
1,2-Dichloroethane	5.0	U	1000	955		ug/L		96	70 - 130
1,2-Dichloropropane	4.4	U	1000	974		ug/L		97	70 - 130
1,3-Dichlorobenzene	6.2	U	1000	1090		ug/L		109	70 - 130
1,4-Dichlorobenzene	110		1000	1250		ug/L		114	70 - 130
2-Butanone (MEK)	15000	J3	5000	23600	L J3	ug/L		177	69 - 120
2-Hexanone	64	U	5000	5140		ug/L		103	70 - 130
4-Methyl-2-pentanone	1400		5000	5800		ug/L		89	68 - 120
Acetone	13000	J3	5000	20600	L J3	ug/L		146	67 - 120
Benzene	5.4	U	1000	974		ug/L		97	70 - 130
Bromodichloromethane	5.0	U	1000	971		ug/L		97	70 - 130
Bromoform	12	U	1000	1120		ug/L		112	69 - 129
Bromomethane	74	U J3	1000	1040		ug/L		104	28 - 192
Carbon disulfide	8.6	U	1000	871		ug/L		87	70 - 130
Carbon tetrachloride	6.0	U	1000	1070		ug/L		107	70 - 130
Chlorobenzene	3.0	U	1000	1190		ug/L		119	70 - 130
Chloroethane	92	U	1000	1310		ug/L		131	31 - 213
Chloroform	5.4	U	1000	878		ug/L		88	70 - 130
Chloromethane	11	U	1000	754		ug/L		75	59 - 127
cis-1,2-Dichloroethene	5.0	U	1000	1030		ug/L		103	70 - 130
cis-1,3-Dichloropropene	5.2	U	1000	1040		ug/L		104	70 - 130
Cyclohexane	5.6	U	1000	1000		ug/L		100	23 - 175
Dibromochloromethane	7.8	U	1000	1000		ug/L		100	70 - 130
Dichlorodifluoromethane	7.2	U	1000	1010		ug/L		101	70 - 130
Ethylbenzene	210	J3	1000	1290		ug/L		108	70 - 130
Isopropylbenzene	30		1000	1110		ug/L		108	70 - 130
m,p-Xylenes	760	J3	1000	2070	L	ug/L		130	70 - 130
Methyl acetate	780	J3	2000	3730	J3	ug/L		147	67 - 120
Methyl tert-butyl ether	16	U	1000	1100		ug/L		110	70 - 130
Methylene Chloride	64	U	1000	841		ug/L		84	70 - 130
o-Xylene	370		1000	1390		ug/L		102	70 - 130
Styrene	5.4	U	1000	1260		ug/L		126	70 - 130
Tetrachloroethene	7.0	U	1000	1000		ug/L		100	70 - 130
Toluene	170		1000	1190		ug/L		102	70 - 130
trans-1,2-Dichloroethene	6.8	U	1000	968		ug/L		97	70 - 130
trans-1,3-Dichloropropene	4.6	U	1000	990		ug/L		99	70 - 130
Trichloroethene	44		1000	1170		ug/L		113	70 - 130
Trichlorofluoromethane	6.6	U J3	1000	1760	J3	ug/L		176	63 - 142
Vinyl chloride	8.0	U	1000	905		ug/L		90	66 - 129
Xylenes, Total	1100		2000	3460	L	ug/L		117	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 124*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*135*	*J1*	*70 - 130*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 680-241324-A-2-B MSD
Matrix: Water
Analysis Batch: 802234

Client Sample ID: Matrix Spike Duplicate
Prep Type: TCLP

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	4.2	U	1000	962		ug/L		96	70 - 130	3	30
1,1,2,2-Tetrachloroethane	8.0	U	1000	915		ug/L		91	70 - 130	10	30
1,1,2-Trichloro-1,2,2-trifluoroethane	4.6	U	1000	1200		ug/L		120	63 - 141	7	30
1,1,2-Trichloroethane	6.4	U	1000	870		ug/L		87	70 - 130	7	30
1,1-Dichloroethane	6.6	U	1000	836		ug/L		84	70 - 130	5	30
1,1-Dichloroethene	6.6	U	1000	884		ug/L		88	70 - 130	17	20
1,2,4-Trichlorobenzene	11	U	1000	909		ug/L		91	70 - 130	8	30
1,2-Dibromo-3-Chloropropane	36	U	1000	886		ug/L		89	70 - 130	1	30
1,2-Dibromoethane (EDB)	6.6	U	1000	992		ug/L		99	70 - 130	4	30
1,2-Dichlorobenzene	6.2	U	1000	1020		ug/L		102	70 - 130	8	30
1,2-Dichloroethane	5.0	U	1000	870		ug/L		87	70 - 130	9	50
1,2-Dichloropropane	4.4	U	1000	917		ug/L		92	70 - 130	6	20
1,3-Dichlorobenzene	6.2	U	1000	998		ug/L		100	70 - 130	9	30
1,4-Dichlorobenzene	110		1000	1090		ug/L		98	70 - 130	13	30
2-Butanone (MEK)	15000	J3	5000	15400	J3	ug/L		14	69 - 120	42	30
2-Hexanone	64	U	5000	4760		ug/L		95	70 - 130	8	20
4-Methyl-2-pentanone	1400		5000	4890		ug/L		71	68 - 120	17	30
Acetone	13000	J3	5000	13800	J3	ug/L		10	67 - 120	40	30
Benzene	5.4	U	1000	906		ug/L		91	70 - 130	7	30
Bromodichloromethane	5.0	U	1000	905		ug/L		90	70 - 130	7	30
Bromoform	12	U	1000	1120		ug/L		112	69 - 129	0	30
Bromomethane	74	U J3	1000	760	J3	ug/L		76	28 - 192	31	30
Carbon disulfide	8.6	U	1000	812		ug/L		81	70 - 130	7	30
Carbon tetrachloride	6.0	U	1000	1030		ug/L		103	70 - 130	4	30
Chlorobenzene	3.0	U	1000	1070		ug/L		107	70 - 130	11	30
Chloroethane	92	U	1000	1100		ug/L		110	31 - 213	17	30
Chloroform	5.4	U	1000	886		ug/L		89	70 - 130	1	30
Chloromethane	11	U	1000	671		ug/L		67	59 - 127	12	30
cis-1,2-Dichloroethene	5.0	U	1000	971		ug/L		97	70 - 130	5	30
cis-1,3-Dichloropropene	5.2	U	1000	974		ug/L		97	70 - 130	7	20
Cyclohexane	5.6	U	1000	953		ug/L		95	23 - 175	5	30
Dibromochloromethane	7.8	U	1000	948		ug/L		95	70 - 130	6	30
Dichlorodifluoromethane	7.2	U	1000	911		ug/L		91	70 - 130	11	40
Ethylbenzene	210	J3	1000	1030	J3	ug/L		83	70 - 130	22	20
Isopropylbenzene	30		1000	980		ug/L		95	70 - 130	13	30
m,p-Xylenes	760	J3	1000	1510	J3	ug/L		75	70 - 130	31	30
Methyl acetate	780	J3	2000	6850	J3	ug/L		304	67 - 120	59	30
Methyl tert-butyl ether	16	U	1000	1030		ug/L		103	70 - 130	7	30
Methylene Chloride	64	U	1000	786		ug/L		79	70 - 130	7	30
o-Xylene	370		1000	1090		ug/L		73	70 - 130	24	30
Styrene	5.4	U	1000	1120		ug/L		112	70 - 130	11	30
Tetrachloroethene	7.0	U	1000	926		ug/L		93	70 - 130	8	30
Toluene	170		1000	998		ug/L		83	70 - 130	18	30
trans-1,2-Dichloroethene	6.8	U	1000	911		ug/L		91	70 - 130	6	30
trans-1,3-Dichloropropene	4.6	U	1000	905		ug/L		91	70 - 130	9	30
Trichloroethene	44		1000	1130		ug/L		108	70 - 130	4	30
Trichlorofluoromethane	6.6	U J3	1000	1440	J3	ug/L		144	63 - 142	20	30
Vinyl chloride	8.0	U	1000	793		ug/L		79	66 - 129	13	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 680-241324-A-2-B MSD
Matrix: Water
Analysis Batch: 802234

Client Sample ID: Matrix Spike Duplicate
Prep Type: TCLP

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Xylenes, Total	1100		2000	2600		ug/L		74	70 - 130	28	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
Dibromofluoromethane (Surr)	*93*		*70 - 130*
Toluene-d8 (Surr)	*120*		*70 - 130*

GC/MS VOA

Leach Batch: 801695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 680-801695/1-A	Method Blank	Total/NA	Water	1311	
680-241324-A-2-B MS	Matrix Spike	TCLP	Water	1311	
680-241324-A-2-B MSD	Matrix Spike Duplicate	TCLP	Water	1311	

Analysis Batch: 802063

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-28220-1	LC34-DPT0965-008.0-20231005	Total/NA	Water	8260D	
670-28220-2	LC34-DPT0965-013 -20231005	Total/NA	Water	8260D	
670-28220-3	LC34-DPT0965-018.0-20231005	Total/NA	Water	8260D	
670-28220-4	LC34-DPT0965-025.0-20231005	Total/NA	Water	8260D	
670-28220-5	LC34-DPT0965-034.0-20231005	Total/NA	Water	8260D	
MB 680-802063/10	Method Blank	Total/NA	Water	8260D	
LCS 680-802063/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-802063/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 802234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-28220-26	LC34-DPT0969-013.0-20231006	Total/NA	Water	8260D	
670-28220-27	LC34-DPT0969-018.0-20231006	Total/NA	Water	8260D	
670-28220-28	LC34-DPT0969-025.0-20231006	Total/NA	Water	8260D	
670-28220-29	LC34-DPT0969-034.0-20231006	Total/NA	Water	8260D	
670-28220-30	LC34-DPT0969-038.0 -20231006	Total/NA	Water	8260D	
LB 680-801695/1-A	Method Blank	Total/NA	Water	8260D	801695
MB 680-802234/8	Method Blank	Total/NA	Water	8260D	
LCS 680-802234/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-802234/5	Lab Control Sample Dup	Total/NA	Water	8260D	
680-241324-A-2-B MS	Matrix Spike	TCLP	Water	8260D	801695
680-241324-A-2-B MSD	Matrix Spike Duplicate	TCLP	Water	8260D	801695

Analysis Batch: 802239

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-28220-6	LC34-DPT0965-038.0-20231005	Total/NA	Water	8260D	
670-28220-7	LC34-DPT0966-008.0-20231005	Total/NA	Water	8260D	
670-28220-8	LC34-DPT0966-013.0-20231005	Total/NA	Water	8260D	
670-28220-9	LC34-DPT0966-018.0-20231005	Total/NA	Water	8260D	
670-28220-10	LC34-DPT0966-025.0-20231005	Total/NA	Water	8260D	
MB 680-802239/9	Method Blank	Total/NA	Water	8260D	
LCS 680-802239/5	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-802239/6	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 802248

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-28220-12	LC34-DPT0966-038.0-20231005	Total/NA	Water	8260D	
670-28220-13	LC34-DPT0967-008.0-20231006	Total/NA	Water	8260D	
670-28220-14	LC34-DPT0967-013.0-20231006	Total/NA	Water	8260D	
670-28220-15	LC34-DPT0967-018.0-20231006	Total/NA	Water	8260D	
670-28220-16	LC34-DPT0967-025.0-20231006	Total/NA	Water	8260D	
670-28220-17	LC34-DPT0967-034.0-20231006	Total/NA	Water	8260D	
670-28220-18	LC34-DPT0967-038.0-20231006	Total/NA	Water	8260D	
670-28220-19	LC34-DPT0968-008.0-20231006	Total/NA	Water	8260D	
670-28220-20	LC34-DPT0968-013.0-20231006	Total/NA	Water	8260D	

GC/MS VOA (Continued)

Analysis Batch: 802248 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-28220-21	LC34-DPT0968-018.0-20231006	Total/NA	Water	8260D	
670-28220-22	LC34-DPT0968-025.0-20231006	Total/NA	Water	8260D	
670-28220-23	LC34-DPT0968-034.0-20231006	Total/NA	Water	8260D	
670-28220-24	LC34-DPT0968-038.0-20231006	Total/NA	Water	8260D	
670-28220-25	LC34-DPT0969-008.0-20231006	Total/NA	Water	8260D	
MB 680-802248/8	Method Blank	Total/NA	Water	8260D	
LCS 680-802248/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-802248/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 802487

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-28220-29 - DL	LC34-DPT0969-034.0-20231006	Total/NA	Water	8260D	
MB 680-802487/7	Method Blank	Total/NA	Water	8260D	
LCS 680-802487/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-802487/4	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 802610

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-28220-11	LC34-DPT0966-034.0-20231005	Total/NA	Water	8260D	
670-28220-11 - DL	LC34-DPT0966-034.0-20231005	Total/NA	Water	8260D	
MB 680-802610/9	Method Blank	Total/NA	Water	8260D	
LCS 680-802610/5	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-802610/6	Lab Control Sample Dup	Total/NA	Water	8260D	

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28220-1
SDG: 670-28220

Client Sample ID: LC34-DPT0965-008.0-20231005
Lab Sample ID: 670-28220-1
Date Collected: 10/05/23 13:15
Matrix: Water
Date Received: 10/07/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	802063	Y1S	EET SAV	10/11/23 21:11

Client Sample ID: LC34-DPT0965-013 -20231005
Lab Sample ID: 670-28220-2
Date Collected: 10/05/23 13:30
Matrix: Water
Date Received: 10/07/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	802063	Y1S	EET SAV	10/11/23 21:34

Client Sample ID: LC34-DPT0965-018.0-20231005
Lab Sample ID: 670-28220-3
Date Collected: 10/05/23 13:45
Matrix: Water
Date Received: 10/07/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		20	802063	Y1S	EET SAV	10/11/23 22:44

Client Sample ID: LC34-DPT0965-025.0-20231005
Lab Sample ID: 670-28220-4
Date Collected: 10/05/23 14:05
Matrix: Water
Date Received: 10/07/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		50	802063	Y1S	EET SAV	10/11/23 22:21

Client Sample ID: LC34-DPT0965-034.0-20231005
Lab Sample ID: 670-28220-5
Date Collected: 10/05/23 14:25
Matrix: Water
Date Received: 10/07/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		50	802063	Y1S	EET SAV	10/11/23 21:57

Client Sample ID: LC34-DPT0965-038.0-20231005
Lab Sample ID: 670-28220-6
Date Collected: 10/05/23 14:45
Matrix: Water
Date Received: 10/07/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		20	802239	MLL	EET SAV	10/12/23 17:55

Client Sample ID: LC34-DPT0966-008.0-20231005
Lab Sample ID: 670-28220-7
Date Collected: 10/05/23 15:30
Matrix: Water
Date Received: 10/07/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	802239	MLL	EET SAV	10/12/23 15:12

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28220-1
SDG: 670-28220

Client Sample ID: LC34-DPT0966-013.0-20231005
Lab Sample ID: 670-28220-8
Date Collected: 10/05/23 15:45
Matrix: Water
Date Received: 10/07/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	802239	MLL	EET SAV	10/12/23 15:36

Client Sample ID: LC34-DPT0966-018.0-20231005
Lab Sample ID: 670-28220-9
Date Collected: 10/05/23 16:00
Matrix: Water
Date Received: 10/07/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	802239	MLL	EET SAV	10/12/23 15:59

Client Sample ID: LC34-DPT0966-025.0-20231005
Lab Sample ID: 670-28220-10
Date Collected: 10/05/23 16:20
Matrix: Water
Date Received: 10/07/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		20	802239	MLL	EET SAV	10/12/23 18:18

Client Sample ID: LC34-DPT0966-034.0-20231005
Lab Sample ID: 670-28220-11
Date Collected: 10/05/23 16:40
Matrix: Water
Date Received: 10/07/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		2	802610	P1C	EET SAV	10/14/23 16:29
Total/NA	Analysis	8260D	DL	50	802610	P1C	EET SAV	10/14/23 18:44

Client Sample ID: LC34-DPT0966-038.0-20231005
Lab Sample ID: 670-28220-12
Date Collected: 10/05/23 17:00
Matrix: Water
Date Received: 10/07/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		25	802248	MLL	EET SAV	10/12/23 14:59

Client Sample ID: LC34-DPT0967-008.0-20231006
Lab Sample ID: 670-28220-13
Date Collected: 10/06/23 08:15
Matrix: Water
Date Received: 10/07/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	802248	MLL	EET SAV	10/12/23 16:15

Client Sample ID: LC34-DPT0967-013.0-20231006
Lab Sample ID: 670-28220-14
Date Collected: 10/06/23 08:30
Matrix: Water
Date Received: 10/07/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	802248	MLL	EET SAV	10/12/23 16:34

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28220-1
SDG: 670-28220

Client Sample ID: LC34-DPT0967-018.0-20231006 — Lab Sample ID: 670-28220-15

Date Collected: 10/06/23 08:45 — **Matrix: Water**
Date Received: 10/07/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	802248	MLL	EET SAV	10/12/23 16:53

Client Sample ID: LC34-DPT0967-025.0-20231006 — Lab Sample ID: 670-28220-16

Date Collected: 10/06/23 09:00 — **Matrix: Water**
Date Received: 10/07/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		10	802248	MLL	EET SAV	10/12/23 20:49

Client Sample ID: LC34-DPT0967-034.0-20231006 — Lab Sample ID: 670-28220-17

Date Collected: 10/06/23 09:20 — **Matrix: Water**
Date Received: 10/07/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		25	802248	MLL	EET SAV	10/12/23 20:06

Client Sample ID: LC34-DPT0967-038.0-20231006 — Lab Sample ID: 670-28220-18

Date Collected: 10/06/23 09:40 — **Matrix: Water**
Date Received: 10/07/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		5	802248	MLL	EET SAV	10/12/23 21:10

Client Sample ID: LC34-DPT0968-008.0-20231006 — Lab Sample ID: 670-28220-19

Date Collected: 10/06/23 10:35 — **Matrix: Water**
Date Received: 10/07/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	802248	MLL	EET SAV	10/12/23 17:12

Client Sample ID: LC34-DPT0968-013.0-20231006 — Lab Sample ID: 670-28220-20

Date Collected: 10/06/23 10:50 — **Matrix: Water**
Date Received: 10/07/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	802248	MLL	EET SAV	10/12/23 17:30

Client Sample ID: LC34-DPT0968-018.0-20231006 — Lab Sample ID: 670-28220-21

Date Collected: 10/06/23 11:05 — **Matrix: Water**
Date Received: 10/07/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	802248	MLL	EET SAV	10/12/23 17:49

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28220-1
SDG: 670-28220

Client Sample ID: LC34-DPT0968-025.0-20231006
Lab Sample ID: 670-28220-22
Date Collected: 10/06/23 11:20
Matrix: Water
Date Received: 10/07/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		25	802248	MLL	EET SAV	10/12/23 19:45

Client Sample ID: LC34-DPT0968-034.0-20231006
Lab Sample ID: 670-28220-23
Date Collected: 10/06/23 11:35
Matrix: Water
Date Received: 10/07/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		10	802248	MLL	EET SAV	10/12/23 20:28

Client Sample ID: LC34-DPT0968-038.0-20231006
Lab Sample ID: 670-28220-24
Date Collected: 10/06/23 11:55
Matrix: Water
Date Received: 10/07/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	802248	MLL	EET SAV	10/12/23 18:08

Client Sample ID: LC34-DPT0969-008.0-20231006
Lab Sample ID: 670-28220-25
Date Collected: 10/06/23 12:25
Matrix: Water
Date Received: 10/07/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	802248	MLL	EET SAV	10/12/23 18:27

Client Sample ID: LC34-DPT0969-013.0-20231006
Lab Sample ID: 670-28220-26
Date Collected: 10/06/23 12:40
Matrix: Water
Date Received: 10/07/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	802234	Y1S	EET SAV	10/12/23 15:09

Client Sample ID: LC34-DPT0969-018.0-20231006
Lab Sample ID: 670-28220-27
Date Collected: 10/06/23 12:55
Matrix: Water
Date Received: 10/07/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	802234	Y1S	EET SAV	10/12/23 15:29

Client Sample ID: LC34-DPT0969-025.0-20231006
Lab Sample ID: 670-28220-28
Date Collected: 10/06/23 13:15
Matrix: Water
Date Received: 10/07/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		50	802234	Y1S	EET SAV	10/12/23 17:11

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28220-1
SDG: 670-28220

Client Sample ID: LC34-DPT0969-034.0-20231006

Lab Sample ID: 670-28220-29

Date Collected: 10/06/23 13:35
Matrix: Water
Date Received: 10/07/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D	DL	500	802487	MLL	EET SAV	10/13/23 15:10
Total/NA	Analysis	8260D		250	802234	Y1S	EET SAV	10/12/23 16:29

Client Sample ID: LC34-DPT0969-038.0 -20231006

Lab Sample ID: 670-28220-30

Date Collected: 10/06/23 13:55
Matrix: Water
Date Received: 10/07/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		200	802234	Y1S	EET SAV	10/12/23 16:49

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28220-1
SDG: 670-28220

Laboratory: Eurofins Savannah

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
	AFCEE	SAVLAB	
Alabama	State	41450	06-30-24
ANAB	Dept. of Defense ELAP	L2463	09-22-24
Arkansas DEQ	State	19-015-0	02-01-24
California	State	2939	06-30-24
Florida	NELAP	E87052	06-30-24
Georgia	State	E87052	06-30-24
Georgia (DW)	State	803	06-30-24
Guam	State	19-007R	04-17-24
Hawaii	State	<cert No.>	06-30-24
Illinois	NELAP	200022	11-30-23
Indiana	State	C-GA-02	06-30-24
Iowa	State	353	07-01-25
Kentucky (UST)	State	NA	06-30-24
Louisiana	NELAP	30690	06-30-24
Louisiana (All)	NELAP	30690	06-30-24
Louisiana (DW)	State	LA009	12-31-23
Maine	State	GA00006	09-25-24
Maryland	State	250	12-31-23
Massachusetts	State	M-GA006	06-30-24
Michigan	State	9925	06-30-24
Mississippi	State	<cert No.>	06-30-24
Nebraska	State	NE-OS-7-04	06-30-24
New Jersey	NELAP	GA769	06-30-24
New Mexico	State	GA00006	06-30-24
North Carolina (DW)	State	13701	07-31-24
North Carolina (WW/SW)	State	269	12-31-23
Pennsylvania	NELAP	68-00474	06-30-24
Puerto Rico	State	GA00006	01-01-24
South Carolina	State	98001	06-30-23 *
Tennessee	State	TN02961	06-30-24
Texas	NELAP	T1047004185	11-30-23
Texas	TCEQ Water Supply	T104704185	06-30-24
USDA	US Federal Programs	P330-18-00313	09-03-24
Virginia	NELAP	460161	06-14-24
Wyoming	State	8TMS-L	06-30-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28220-1
SDG: 670-28220

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET SAV
5030B	Purge and Trap	SW846	EET SAV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Sample Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28220-1
SDG: 670-28220

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
670-28220-1	LC34-DPT0965-008.0-20231005	Water	10/05/23 13:15	10/07/23 08:00
670-28220-2	LC34-DPT0965-013 -20231005	Water	10/05/23 13:30	10/07/23 08:00
670-28220-3	LC34-DPT0965-018.0-20231005	Water	10/05/23 13:45	10/07/23 08:00
670-28220-4	LC34-DPT0965-025.0-20231005	Water	10/05/23 14:05	10/07/23 08:00
670-28220-5	LC34-DPT0965-034.0-20231005	Water	10/05/23 14:25	10/07/23 08:00
670-28220-6	LC34-DPT0965-038.0-20231005	Water	10/05/23 14:45	10/07/23 08:00
670-28220-7	LC34-DPT0966-008.0-20231005	Water	10/05/23 15:30	10/07/23 08:00
670-28220-8	LC34-DPT0966-013.0-20231005	Water	10/05/23 15:45	10/07/23 08:00
670-28220-9	LC34-DPT0966-018.0-20231005	Water	10/05/23 16:00	10/07/23 08:00
670-28220-10	LC34-DPT0966-025.0-20231005	Water	10/05/23 16:20	10/07/23 08:00
670-28220-11	LC34-DPT0966-034.0-20231005	Water	10/05/23 16:40	10/07/23 08:00
670-28220-12	LC34-DPT0966-038.0-20231005	Water	10/05/23 17:00	10/07/23 08:00
670-28220-13	LC34-DPT0967-008.0-20231006	Water	10/06/23 08:15	10/07/23 08:00
670-28220-14	LC34-DPT0967-013.0-20231006	Water	10/06/23 08:30	10/07/23 08:00
670-28220-15	LC34-DPT0967-018.0-20231006	Water	10/06/23 08:45	10/07/23 08:00
670-28220-16	LC34-DPT0967-025.0-20231006	Water	10/06/23 09:00	10/07/23 08:00
670-28220-17	LC34-DPT0967-034.0-20231006	Water	10/06/23 09:20	10/07/23 08:00
670-28220-18	LC34-DPT0967-038.0-20231006	Water	10/06/23 09:40	10/07/23 08:00
670-28220-19	LC34-DPT0968-008.0-20231006	Water	10/06/23 10:35	10/07/23 08:00
670-28220-20	LC34-DPT0968-013.0-20231006	Water	10/06/23 10:50	10/07/23 08:00
670-28220-21	LC34-DPT0968-018.0-20231006	Water	10/06/23 11:05	10/07/23 08:00
670-28220-22	LC34-DPT0968-025.0-20231006	Water	10/06/23 11:20	10/07/23 08:00
670-28220-23	LC34-DPT0968-034.0-20231006	Water	10/06/23 11:35	10/07/23 08:00
670-28220-24	LC34-DPT0968-038.0-20231006	Water	10/06/23 11:55	10/07/23 08:00
670-28220-25	LC34-DPT0969-008.0-20231006	Water	10/06/23 12:25	10/07/23 08:00
670-28220-26	LC34-DPT0969-013.0-20231006	Water	10/06/23 12:40	10/07/23 08:00
670-28220-27	LC34-DPT0969-018.0-20231006	Water	10/06/23 12:55	10/07/23 08:00
670-28220-28	LC34-DPT0969-025.0-20231006	Water	10/06/23 13:15	10/07/23 08:00
670-28220-29	LC34-DPT0969-034.0-20231006	Water	10/06/23 13:35	10/07/23 08:00
670-28220-30	LC34-DPT0969-038.0 -20231006	Water	10/06/23 13:55	10/07/23 08:00

Tetra Tech, Inc.

CHAIN OF CUSTODY | NUMBER No. 3760 | PAGE 1 OF 3

PROJECT NO: 112G08985	FACILITY: KSC-LC34	PROJECT MANAGER Mark Jonnet	PHONE NUMBER (412) 921-8622	LABORATORY NAME AND CONTACT: Eurofins – Kaitlin Dylnicki
SAMPLERS (SIGNATURE) – Chuck Sorden		FIELD OPERATIONS LEADER Chuck Sorden	PHONE NUMBER (321) 591-7580	ADDRESS 481 Newburyport Ave
		CARRIER/WAYBILL NUMBER		CITY, STATE Altamonte Springs, FL

STANDARD TAT ☒
RUSH TAT ☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE (YEAR 2023)	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)										COMMENTS
									G	G									
									HCl/4°C	4°C									
									PRESERVATIVE USED										
									TYPE OF ANALYSIS: 8260D-(MOD) NASA LC34 Custom List	8260D-(MOD) NASA LC34 Custom List									
10/05	1315	LC34-DPT0965-008.0-20231005	36	6	10	GW	G	4	X	X									
	1330	LC34-DPT0965-013.0-20231005		11	15														
	1345	LC34-DPT0965-018.0-20231005		16	20														
	1405	LC34-DPT0965-025.0-20231005		23	27														
	1425	LC34-DPT0965-034.0-20231005		32	36														
	1445	LC34-DPT0965-038.0-20231005	36	36	40														
	1530	LC34-DPT0966-008.0-20231005	30	6	10														
	1545	LC34-DPT0966-013.0-20231005		11	15														
	1600 ~~1600~~	LC34-DPT0966-018.0-20231005		16	20														
	CS 1620	LC34-DPT0966-025.0-20231005		23	27														
	1640	LC34-DPT0966-034.0-20231005		32	36														
10/05	1700	LC34-DPT0966-038.0-20231005	30	36	40														
10/06	0815	LC34-DPT0967-008.0-20231006	24	6	10	GW	G	4	X	X									

670-28220 Chain of Custody

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	10/06/23	1415	1. RECEIVED BY MC	10/7/23	8:00
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS 4.3 / 3.8

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY) 4/02R

FORM NO. TT-NS-001

Tetra Tech, Inc.

CHAIN OF CUSTODY | NUMBER No. 3761 | PAGE 2 OF 3

PROJECT NO: 112G08985	FACILITY: KSC-LC34	PROJECT MANAGER Mark Jonnet	PHONE NUMBER (412) 921-8622	LABORATORY NAME AND CONTACT: Eurofins — Kaitlin Dylnicki
SAMPLERS (SIGNATURE) -Chuck Sorden		FIELD OPERATIONS LEADER Chuck Sorden	PHONE NUMBER (321) 591-7580	ADDRESS 481 Newburyport Ave.
		CARRIER/WAYBILL NUMBER		CITY, STATE Altamonte Springs, FL

STANDARD TAT ☒
RUSH TAT ☐ ☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2023	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)									
									G	G								
									PRESERVATIVE USED		4C/4°C	4°C						
									TYPE OF ANALYSIS		8260D-(MOD) NASA LC34 Custom List	8260D-(MOD) NASA LC34 Custom List						COMMENTS
10/06	0830	LC34-DPT0967-013.0-20231006	24	11	15	GW	G	4	X	X								
	0845	LC34-DPT0967-018.0-20231006		16	20													
	0900	LC34-DPT0967-025.0-20231006		23	27													
	0920	LC34-DPT0967-034.0-20231006		32	36													
	0940	LC34-DPT0967-038.0-20231006	24	36	40													
	1035	LC34-DPT0968-008.0-20231006	17	6	10													
	1050	LC34-DPT0968-013.0-20231006		11	15													
	1105	LC34-DPT0968-018.0-20231006		16	20													
	1120	LC34-DPT0968-025.0-20231006		23	27													
	1135	LC34-DPT0968-034.0-20231006		32	36													
	1155	LC34-DPT0968-038.0-20231006	24"	36	40													
	1225	LC34-DPT0969-008.0-20231006	10	6	10													
10/06	1240	LC34-DPT0969-013.0-20231006	10	11	15	GW	G	4	X	X								

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	10/06/23	1415	1. RECEIVED BY MC	10/7/23	8:00
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY) 4/02R

FORM NO. TtNUS-001

Tetra Tech, Inc.

CHAIN OF CUSTODY | NUMBER No. 3762 | PAGE 3 OF 3

PROJECT NO: 112G08985	FACILITY: KSC-LC34	PROJECT MANAGER Mark Jonnet	PHONE NUMBER (412) 921-8622	LABORATORY NAME AND CONTACT: Eurofins — Kaitlin Dylnicki
SAMPLERS (SIGNATURE) - Chuck Sorden		FIELD OPERATIONS LEADER Chuck Sorden	PHONE NUMBER (321) 591-7580	ADDRESS 481 Newburyport Ave.
		CARRIER/WAYBILL NUMBER		CITY, STATE Altamonte Springs, FL

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

| DATE YEAR 2023 | TIME | SAMPLE ID | LOCATION ID | TOP DEPTH (FT) | BOTTOM DEPTH (FT) | MATRIX (GW, SO, SW, SD, QC, ETC.) | COLLECTION METHOD GRAB (G) COMP (C) | No. OF CONTAINERS | CONTAINER TYPE PLASTIC (P) or GLASS (G) | | | |

Eurofins Orlando
481 Newburyport Avenue
Altamonte Springs, FL 32701
Phone: 407-339-5984 Fax: 407-260-6110

Chain of Custody Record

eurofins

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Dylnicki, Kaitlin	Carrier Tracking No(s):	COC No: 670-16538.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: kaitlin.dylnicki@et.eurofinsus.com	State of Origin: Florida	Page: Page 1 of 4
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP - Florida		Job #: 670-28220-1
Address: 5102 LaRoche Avenue, .	Due Date Requested: 10/18/2023			
City: Savannah	TAT Requested (days):			
State, Zip: GA, 31404				
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	PO #:			
Email:	WO #:			
Project Name: NASA KSC LC34 DPT	Project #: 67001156			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D/5030B (MOD) NASA LC34 Custom	8260D/5030B_UP (MOD) NASA LC34 Custom	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
LC34-DPT0965-008.0-20231005 (670-28220-1)	10/5/23	13:15 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0965-013 -20231005 (670-28220-2)	10/5/23	13:30 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0965-018.0-20231005 (670-28220-3)	10/5/23	13:45 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0965-025.0-20231005 (670-28220-4)	10/5/23	14:05 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0965-034.0-20231005 (670-28220-5)	10/5/23	14:25 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0965-038.0-20231005 (670-28220-6)	10/5/23	14:45 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0966-008.0-20231005 (670-28220-7)	10/5/23	15:30 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0966-013.0-20231005 (670-28220-8)	10/5/23	15:45 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0966-018.0-20231005 (670-28220-9)	10/5/23	16:00 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	10/9 1200			10-10-23	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 16:07	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.3- 2.6

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 670-28220-1
SDG Number: 670-28220

Login Number: 28220
List Number: 1
Creator: Clerisier, Meline

List Source: Eurofins Orlando

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 670-28220-1
SDG Number: 670-28220

Login Number: 28220
List Number: 2
Creator: Harley, Tynisha

List Source: Eurofins Savannah
List Creation: 10/10/23 12:08 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Mark Jonnet
Tetra Tech, Inc.
Foster Plaza 7
661 Anderson Drive
Suite 200
Pittsburgh, Pennsylvania 15220-2745

Generated 10/25/2023 2:59:24 AM

JOB DESCRIPTION

NASA KSC LC34 DPT

JOB NUMBER

670-28390-1

Eurofins Orlando
481 Newburyport Avenue
Altamonte Springs FL 32701

See page two for job notes and contact information.

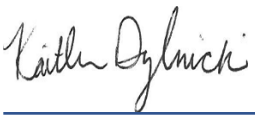
my EOL

Job Notes

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The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization



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Definitions/Glossary

Client: Tetra Tech, Inc.
Job ID: 670-28390-1
Project/Site: NASA KSC LC34 DPT

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
Q	Sample held beyond the accepted holding time.
U	Indicates that the compound was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 670-28390-1

Laboratory: Eurofins Orlando

Narrative

Job Narrative
670-28390-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Client: Tetra Tech
Client PM: Mark Jonnet
Project: NASA KSC LC34
Project Number: 112G08985
Job: 670-

Receipt
The samples were received on 10/11/2023 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.5°C

GC/MS VOA
Method 8260D: The continuing calibration verification (CCV) associated with batch 680-802973 recovered outside acceptance criteria, low biased, for 1,1,2-Trichloroethane, 2-Butanone (MEK) and Acetone. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

Method 8260D: The laboratory control sample (LCS) for analytical batch 680-802973 recovered outside control limits for the following analytes: 1,2,4-Trichlorobenzene. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-802973.

Method 8260D: The continuing calibration verification (CCV) associated with batch 680-802997 recovered above the upper control limit for 1,1,2,2-Tetrachloroethane, 1,2-Dibromo-3-Chloropropane, 2-Hexanone, 4-Methyl-2-pentanone and Acetone. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260D: The laboratory control sample (LCS) for analytical batch 680-802997 recovered outside control limits for the following analytes: 1,2-Dibromo-3-Chloropropane, 2-Butanone (MEK), 4-Methyl-2-pentanone and Acetone. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D: The laboratory control sample duplicate (LCSD) for analytical batch 680-802997 recovered outside control limits for the following analytes: 1,1,2,2-Tetrachloroethane, 1,2-Dibromo-3-Chloropropane, 2-Butanone (MEK), 2-Hexanone, 4-Methyl-2-pentanone and Acetone. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-802997.

Job ID: 670-28390-1 (Continued)

Laboratory: Eurofins Orlando (Continued)

Method 8260D: The continuing calibration verification (CCV) associated with batch 680-803189 recovered above the upper control limit for 1,1,2,2-Tetrachloroethane, 1,2-Dibromo-3-Chloropropane, 2-Hexanone, 4-Methyl-2-pentanone and Acetone. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260D: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 680-803189 recovered outside control limits for the following analytes: 1,2-Dibromo-3-Chloropropane, 2-Butanone (MEK), 2-Hexanone, 4-Methyl-2-pentanone and Acetone. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D: The following samples were diluted to bring the concentration of target analytes within the calibration range: LC34-DPT0970-025.0-20231009 (670-28390-4), LC34-DPT0970-034.0-20231009 (670-28390-5) and LC34-DPT0971-025.0-20231009 (670-28390-10). Elevated reporting limits (RLs) are provided.

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-803189.

Method 8260D: The continuing calibration verification (CCV) analyzed in batch 680-803294 was outside the method criteria for the following analyte(s): 2-Butanone (MEK) and Trichlorofluoromethane. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8260D: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 680-803294 recovered outside control limits for the following analytes: Trichlorofluoromethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D: The following samples were diluted to bring the concentration of target analytes within the calibration range: LC34-DPT0970-038.0-20231009 (670-28390-6), LC34-DPT0971-018.0-20231009 (670-28390-9), LC34-DPT0971-034.0-20231009 (670-28390-11) and LC34-DPT0972-008.0-20231009 (670-28390-13). Elevated reporting limits (RLs) are provided.

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-803294.

Method 8260D: The following samples were received outside of the method holding time: LC34-DPT0970-008.0-20231009 (670-28390-1), LC34-DPT0970-013.0-20231009 (670-28390-2), LC34-DPT0970-018.0-20231009 (670-28390-3), LC34-DPT0971-008.0-20231009 (670-28390-7), LC34-DPT0971-013.0-20231009 (670-28390-8), LC34-DPT0971-038.0-20231009 (670-28390-12), LC34-DPT0972-013.0-20231009 (670-28390-14), LC34-DPT0972-018.0-20231009 (670-28390-15), LC34-DPT0972-025.0-20231009 (670-28390-16), LC34-DPT0972-034.0-20231009 (670-28390-17) and LC34-DPT0972-038.0-20231009 (670-28390-18).

Method 8260D: The continuing calibration verification (CCV) associated with batch 680-803472 recovered above the upper control limit for Chloroethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-803472.

Method 8260D: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 680-803472 recovered outside control limits for the following analytes: Chloromethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D: The continuing calibration verification (CCV) analyzed in batch 680-803455 was outside the method criteria for the following analyte(s): 2-Butanone (MEK) and Trichlorofluoromethane. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. Analytes were ND in the samples.

Job ID: 670-28390-1 (Continued)

Laboratory: Eurofins Orlando (Continued)

Method 8260D: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 680-803455 recovered outside control limits for the following analytes: Trichlorofluoromethane.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28390-1

Client Sample ID: LC34-DPT0970-008.0-20231009 — Lab Sample ID: 670-28390-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	14	Q	1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	21	Q	1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0970-013.0-20231009 — Lab Sample ID: 670-28390-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	72	Q	1.0	0.25	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	0.91	I Q	1.0	0.34	ug/L	1		8260D	Total/NA
Vinyl chloride	150	Q	1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0970-018.0-20231009 — Lab Sample ID: 670-28390-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	22	Q	1.0	0.33	ug/L	1		8260D	Total/NA
Benzene	0.28	I Q	1.0	0.27	ug/L	1		8260D	Total/NA
Dichlorodifluoromethane	4.2	Q	1.0	0.36	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene - DL	8800	Q	100	25	ug/L	100		8260D	Total/NA
trans-1,2-Dichloroethene - DL	200	Q	100	34	ug/L	100		8260D	Total/NA
Vinyl chloride - DL	2200	Q	100	40	ug/L	100		8260D	Total/NA

Client Sample ID: LC34-DPT0970-025.0-20231009 — Lab Sample ID: 670-28390-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	42000	Q	250	63	ug/L	250		8260D	Total/NA
trans-1,2-Dichloroethene	1700	Q	100	34	ug/L	100		8260D	Total/NA
Vinyl chloride	12000	Q	100	40	ug/L	100		8260D	Total/NA

Client Sample ID: LC34-DPT0970-034.0-20231009 — Lab Sample ID: 670-28390-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	27000	Q	200	50	ug/L	200		8260D	Total/NA
trans-1,2-Dichloroethene	380	Q	200	68	ug/L	200		8260D	Total/NA
Vinyl chloride	8800	Q	200	80	ug/L	200		8260D	Total/NA

Client Sample ID: LC34-DPT0970-038.0-20231009 — Lab Sample ID: 670-28390-6

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2300	Q	50	13	ug/L	50		8260D	Total/NA
Trichloroethene	16	I Q	50	10	ug/L	50		8260D	Total/NA

Client Sample ID: LC34-DPT0971-008.0-20231009 — Lab Sample ID: 670-28390-7

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	3.9	Q	1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	5.7	Q	1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0971-013.0-20231009 — Lab Sample ID: 670-28390-8

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.96	I	2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	7.2		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	47		1.0	0.40	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28390-1

Client Sample ID: LC34-DPT0971-018.0-20231009 — Lab Sample ID: 670-28390-9

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroethane	40	Q	25	23	ug/L	5		8260D	Total/NA
cis-1,2-Dichloroethene	400	Q	5.0	1.3	ug/L	5		8260D	Total/NA
Vinyl chloride	380	Q	5.0	2.0	ug/L	5		8260D	Total/NA

Client Sample ID: LC34-DPT0971-025.0-20231009 — Lab Sample ID: 670-28390-10

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	29000	Q	250	63	ug/L	250		8260D	Total/NA
trans-1,2-Dichloroethene	500	Q	250	85	ug/L	250		8260D	Total/NA
Vinyl chloride	5800	Q	250	100	ug/L	250		8260D	Total/NA

Client Sample ID: LC34-DPT0971-034.0-20231009 — Lab Sample ID: 670-28390-11

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	370		25	6.8	ug/L	25		8260D	Total/NA
cis-1,2-Dichloroethene	17	I	25	6.3	ug/L	25		8260D	Total/NA
Cyclohexane	1500		25	7.0	ug/L	25		8260D	Total/NA
Ethylbenzene	83		25	5.0	ug/L	25		8260D	Total/NA
Isopropylbenzene	230		25	6.5	ug/L	25		8260D	Total/NA
m,p-Xylenes	890		25	12	ug/L	25		8260D	Total/NA
o-Xylene	32		25	6.5	ug/L	25		8260D	Total/NA
Xylenes, Total	920		25	5.8	ug/L	25		8260D	Total/NA

Client Sample ID: LC34-DPT0971-038.0-20231009 — Lab Sample ID: 670-28390-12

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	7.3	Q	1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	1.0	Q	1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0972-008.0-20231009 — Lab Sample ID: 670-28390-13

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	23		20	7.4	ug/L	2		8260D	Total/NA
cis-1,2-Dichloroethene	0.79	I	2.0	0.50	ug/L	2		8260D	Total/NA

Client Sample ID: LC34-DPT0972-013.0-20231009 — Lab Sample ID: 670-28390-14

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	24	Q	1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	68	Q	1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0972-018.0-20231009 — Lab Sample ID: 670-28390-15

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	16	Q	1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	38	Q	1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0972-025.0-20231009 — Lab Sample ID: 670-28390-16

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.2	Q	1.0	0.25	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	1.0	Q	1.0	0.34	ug/L	1		8260D	Total/NA
Vinyl chloride	29	Q	1.0	0.40	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Orlando

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28390-1

Client Sample ID: LC34-DPT0972-034.0-20231009 — Lab Sample ID: 670-28390-17

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	28		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	49		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0972-038.0-20231009 — Lab Sample ID: 670-28390-18

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.28	I Q	1.0	0.25	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0973-008.0-20231010 — Lab Sample ID: 670-28390-19

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.1		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	2.2		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0973-013.0-20231010 — Lab Sample ID: 670-28390-20

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	13		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	20		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0973-018.0-20231010 — Lab Sample ID: 670-28390-21

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	200		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	72		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0973-025.0-20231010 — Lab Sample ID: 670-28390-22

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	66		1.0	0.25	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	1.8		1.0	0.34	ug/L	1		8260D	Total/NA
Vinyl chloride	31		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0973-034.0-20231010 — Lab Sample ID: 670-28390-23

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.98	I	2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	5.9		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	6.5		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0973-038.0-20231010 — Lab Sample ID: 670-28390-24

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.95	I	2.0	0.43	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0974-008.0-20231010 — Lab Sample ID: 670-28390-25

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.0		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	5.3		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0974-013.0-20231010 — Lab Sample ID: 670-28390-26

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	16		1.0	0.25	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: LC34-DPT0974-013.0-20231010 (Continued) — Lab Sample ID: 670-28390-26

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	0.23	I	1.0	0.20	ug/L	1		8260D	Total/NA
Vinyl chloride	25		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0974-018.0-20231010 — Lab Sample ID: 670-28390-27

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
trans-1,2-Dichloroethene	0.38	I	1.0	0.34	ug/L	1		8260D	Total/NA
Vinyl chloride	82		1.0	0.40	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene - DL	290		2.0	0.50	ug/L	2		8260D	Total/NA

Client Sample ID: LC34-DPT0974-025.0-20231010 — Lab Sample ID: 670-28390-28

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	1.3	I	2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	1.8		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	2.7		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0974-034.0-20231010 — Lab Sample ID: 670-28390-29

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.73	I	2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	3.5		1.0	0.25	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0974-038.0-20231010 — Lab Sample ID: 670-28390-30

No Detections.

Client Sample ID: LC34-DPT0975-008.0-20231010 — Lab Sample ID: 670-28390-31

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	14		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	21		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0975-013.0-20231010 — Lab Sample ID: 670-28390-32

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	31		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	43		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0975-018.0-20231010 — Lab Sample ID: 670-28390-33

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	4.3		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	8.2		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0975-025.0-20231010 — Lab Sample ID: 670-28390-34

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.4		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	61		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0975-034.0-20231010 — Lab Sample ID: 670-28390-35

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.61	I	1.0	0.25	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Tetra Tech, Inc.
Job ID: 670-28390-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT0975-038.0-20231010
Lab Sample ID: 670-28390-36

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28390-1

Client Sample ID: LC34-DPT0970-008.0-20231009
Date Collected: 10/09/23 09:20
Date Received: 10/11/23 08:00

Lab Sample ID: 670-28390-1
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U Q	1.0	0.21	ug/L			10/18/23 13:07	1
1,1,2,2-Tetrachloroethane	0.40	U Q	1.0	0.40	ug/L			10/18/23 13:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U Q	1.0	0.23	ug/L			10/18/23 13:07	1
1,1,2-Trichloroethane	0.32	U Q	1.0	0.32	ug/L			10/18/23 13:07	1
1,1-Dichloroethane	0.33	U Q	1.0	0.33	ug/L			10/18/23 13:07	1
1,1-Dichloroethene	0.33	U Q	1.0	0.33	ug/L			10/18/23 13:07	1
1,2,4-Trichlorobenzene	0.53	U Q	5.0	0.53	ug/L			10/18/23 13:07	1
1,2-Dibromo-3-Chloropropane	1.8	U Q J3	5.0	1.8	ug/L			10/18/23 13:07	1
1,2-Dibromoethane (EDB)	0.33	U Q	1.0	0.33	ug/L			10/18/23 13:07	1
1,2-Dichlorobenzene	0.31	U Q	1.0	0.31	ug/L			10/18/23 13:07	1
1,2-Dichloroethane	0.25	U Q	1.0	0.25	ug/L			10/18/23 13:07	1
1,2-Dichloropropane	0.22	U Q	1.0	0.22	ug/L			10/18/23 13:07	1
1,3-Dichlorobenzene	0.31	U Q	1.0	0.31	ug/L			10/18/23 13:07	1
1,4-Dichlorobenzene	0.31	U Q	1.0	0.31	ug/L			10/18/23 13:07	1
2-Butanone (MEK)	6.4	U Q J3	10	6.4	ug/L			10/18/23 13:07	1
2-Hexanone	3.2	U Q J3	10	3.2	ug/L			10/18/23 13:07	1
4-Methyl-2-pentanone	2.7	U Q J3	10	2.7	ug/L			10/18/23 13:07	1
Acetone	3.7	U Q J3	10	3.7	ug/L			10/18/23 13:07	1
Benzene	0.27	U Q	1.0	0.27	ug/L			10/18/23 13:07	1
Bromodichloromethane	0.25	U Q	1.0	0.25	ug/L			10/18/23 13:07	1
Bromoform	0.59	U Q	1.0	0.59	ug/L			10/18/23 13:07	1
Bromomethane	3.7	U Q	5.0	3.7	ug/L			10/18/23 13:07	1
Carbon disulfide	0.43	U Q	2.0	0.43	ug/L			10/18/23 13:07	1
Carbon tetrachloride	0.30	U Q	1.0	0.30	ug/L			10/18/23 13:07	1
Chlorobenzene	0.15	U Q	1.0	0.15	ug/L			10/18/23 13:07	1
Chloroethane	4.6	U Q	5.0	4.6	ug/L			10/18/23 13:07	1
Chloroform	0.27	U Q	1.0	0.27	ug/L			10/18/23 13:07	1
Chloromethane	0.54	U Q	1.0	0.54	ug/L			10/18/23 13:07	1
cis-1,2-Dichloroethene	**14**	**Q**	1.0	0.25	ug/L			10/18/23 13:07	1
cis-1,3-Dichloropropene	0.26	U Q	1.0	0.26	ug/L			10/18/23 13:07	1
Cyclohexane	0.28	U Q	1.0	0.28	ug/L			10/18/23 13:07	1
Dibromochloromethane	0.39	U Q	1.0	0.39	ug/L			10/18/23 13:07	1
Dichlorodifluoromethane	0.36	U Q	1.0	0.36	ug/L			10/18/23 13:07	1
Ethylbenzene	0.20	U Q	1.0	0.20	ug/L			10/18/23 13:07	1
Isopropylbenzene	0.26	U Q	1.0	0.26	ug/L			10/18/23 13:07	1
m,p-Xylenes	0.49	U Q	1.0	0.49	ug/L			10/18/23 13:07	1
Methyl acetate	3.2	U Q	5.0	3.2	ug/L			10/18/23 13:07	1
Methyl tert-butyl ether	0.81	U Q	5.0	0.81	ug/L			10/18/23 13:07	1
Methylene Chloride	3.2	U Q	5.0	3.2	ug/L			10/18/23 13:07	1
o-Xylene	0.26	U Q	1.0	0.26	ug/L			10/18/23 13:07	1
Styrene	0.27	U Q	1.0	0.27	ug/L			10/18/23 13:07	1
Tetrachloroethene	0.35	U Q	1.0	0.35	ug/L			10/18/23 13:07	1
Toluene	0.25	U Q	1.0	0.25	ug/L			10/18/23 13:07	1
trans-1,2-Dichloroethene	0.34	U Q	1.0	0.34	ug/L			10/18/23 13:07	1
trans-1,3-Dichloropropene	0.23	U Q	1.0	0.23	ug/L			10/18/23 13:07	1
Trichloroethene	0.20	U Q	1.0	0.20	ug/L			10/18/23 13:07	1
Trichlorofluoromethane	0.33	U Q	1.0	0.33	ug/L			10/18/23 13:07	1
Vinyl chloride	**21**	**Q**	1.0	0.40	ug/L			10/18/23 13:07	1
Xylenes, Total	0.23	U Q	1.0	0.23	ug/L			10/18/23 13:07	1

Client Sample ID: LC34-DPT0970-008.0-20231009
Lab Sample ID: 670-28390-1

Date Collected: 10/09/23 09:20
Matrix: Water
Date Received: 10/11/23 08:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 124*		*10/18/23 13:07*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/18/23 13:07*	*1*
Dibromofluoromethane (Surr)	*106*		*70 - 130*		*10/18/23 13:07*	*1*
Toluene-d8 (Surr)	*109*		*70 - 130*		*10/18/23 13:07*	*1*

Client Sample ID: LC34-DPT0970-013.0-20231009
Lab Sample ID: 670-28390-2

Date Collected: 10/09/23 09:35
Matrix: Water
Date Received: 10/11/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U Q	1.0	0.21	ug/L			10/18/23 13:26	1
1,1,2,2-Tetrachloroethane	0.40	U Q	1.0	0.40	ug/L			10/18/23 13:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U Q	1.0	0.23	ug/L			10/18/23 13:26	1
1,1,2-Trichloroethane	0.32	U Q	1.0	0.32	ug/L			10/18/23 13:26	1
1,1-Dichloroethane	0.33	U Q	1.0	0.33	ug/L			10/18/23 13:26	1
1,1-Dichloroethene	0.33	U Q	1.0	0.33	ug/L			10/18/23 13:26	1
1,2,4-Trichlorobenzene	0.53	U Q	5.0	0.53	ug/L			10/18/23 13:26	1
1,2-Dibromo-3-Chloropropane	1.8	U Q J3	5.0	1.8	ug/L			10/18/23 13:26	1
1,2-Dibromoethane (EDB)	0.33	U Q	1.0	0.33	ug/L			10/18/23 13:26	1
1,2-Dichlorobenzene	0.31	U Q	1.0	0.31	ug/L			10/18/23 13:26	1
1,2-Dichloroethane	0.25	U Q	1.0	0.25	ug/L			10/18/23 13:26	1
1,2-Dichloropropane	0.22	U Q	1.0	0.22	ug/L			10/18/23 13:26	1
1,3-Dichlorobenzene	0.31	U Q	1.0	0.31	ug/L			10/18/23 13:26	1
1,4-Dichlorobenzene	0.31	U Q	1.0	0.31	ug/L			10/18/23 13:26	1
2-Butanone (MEK)	6.4	U Q J3	10	6.4	ug/L			10/18/23 13:26	1
2-Hexanone	3.2	U Q J3	10	3.2	ug/L			10/18/23 13:26	1
4-Methyl-2-pentanone	2.7	U Q J3	10	2.7	ug/L			10/18/23 13:26	1
Acetone	3.7	U Q J3	10	3.7	ug/L			10/18/23 13:26	1
Benzene	0.27	U Q	1.0	0.27	ug/L			10/18/23 13:26	1
Bromodichloromethane	0.25	U Q	1.0	0.25	ug/L			10/18/23 13:26	1
Bromoform	0.59	U Q	1.0	0.59	ug/L			10/18/23 13:26	1
Bromomethane	3.7	U Q	5.0	3.7	ug/L			10/18/23 13:26	1
Carbon disulfide	0.43	U Q	2.0	0.43	ug/L			10/18/23 13:26	1
Carbon tetrachloride	0.30	U Q	1.0	0.30	ug/L			10/18/23 13:26	1
Chlorobenzene	0.15	U Q	1.0	0.15	ug/L			10/18/23 13:26	1
Chloroethane	4.6	U Q	5.0	4.6	ug/L			10/18/23 13:26	1
Chloroform	0.27	U Q	1.0	0.27	ug/L			10/18/23 13:26	1
Chloromethane	0.54	U Q	1.0	0.54	ug/L			10/18/23 13:26	1
cis-1,2-Dichloroethene	**72**	**Q**	1.0	0.25	ug/L			10/18/23 13:26	1
cis-1,3-Dichloropropene	0.26	U Q	1.0	0.26	ug/L			10/18/23 13:26	1
Cyclohexane	0.28	U Q	1.0	0.28	ug/L			10/18/23 13:26	1
Dibromochloromethane	0.39	U Q	1.0	0.39	ug/L			10/18/23 13:26	1
Dichlorodifluoromethane	0.36	U Q	1.0	0.36	ug/L			10/18/23 13:26	1
Ethylbenzene	0.20	U Q	1.0	0.20	ug/L			10/18/23 13:26	1
Isopropylbenzene	0.26	U Q	1.0	0.26	ug/L			10/18/23 13:26	1
m,p-Xylenes	0.49	U Q	1.0	0.49	ug/L			10/18/23 13:26	1
Methyl acetate	3.2	U Q	5.0	3.2	ug/L			10/18/23 13:26	1
Methyl tert-butyl ether	0.81	U Q	5.0	0.81	ug/L			10/18/23 13:26	1
Methylene Chloride	3.2	U Q	5.0	3.2	ug/L			10/18/23 13:26	1

Client Sample ID: LC34-DPT0970-013.0-20231009
Lab Sample ID: 670-28390-2

Date Collected: 10/09/23 09:35
Matrix: Water
Date Received: 10/11/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	0.26	U Q	1.0	0.26	ug/L			10/18/23 13:26	1
Styrene	0.27	U Q	1.0	0.27	ug/L			10/18/23 13:26	1
Tetrachloroethene	0.35	U Q	1.0	0.35	ug/L			10/18/23 13:26	1
Toluene	0.25	U Q	1.0	0.25	ug/L			10/18/23 13:26	1
trans-1,2-Dichloroethene	**0.91**	**I Q**	1.0	0.34	ug/L			10/18/23 13:26	1
trans-1,3-Dichloropropene	0.23	U Q	1.0	0.23	ug/L			10/18/23 13:26	1
Trichloroethene	0.20	U Q	1.0	0.20	ug/L			10/18/23 13:26	1
Trichlorofluoromethane	0.33	U Q	1.0	0.33	ug/L			10/18/23 13:26	1
Vinyl chloride	**150**	**Q**	1.0	0.40	ug/L			10/18/23 13:26	1
Xylenes, Total	0.23	U Q	1.0	0.23	ug/L			10/18/23 13:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 124*		*10/18/23 13:26*	*1*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*10/18/23 13:26*	*1*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*10/18/23 13:26*	*1*
Toluene-d8 (Surr)	*109*		*70 - 130*		*10/18/23 13:26*	*1*

Client Sample ID: LC34-DPT0970-018.0-20231009
Lab Sample ID: 670-28390-3

Date Collected: 10/09/23 09:50
Matrix: Water
Date Received: 10/11/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U Q	1.0	0.21	ug/L			10/18/23 13:45	1
1,1,2,2-Tetrachloroethane	0.40	U Q	1.0	0.40	ug/L			10/18/23 13:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U Q	1.0	0.23	ug/L			10/18/23 13:45	1
1,1,2-Trichloroethane	0.32	U Q	1.0	0.32	ug/L			10/18/23 13:45	1
1,1-Dichloroethane	0.33	U Q	1.0	0.33	ug/L			10/18/23 13:45	1
1,1-Dichloroethene	**22**	**Q**	1.0	0.33	ug/L			10/18/23 13:45	1
1,2,4-Trichlorobenzene	0.53	U Q	5.0	0.53	ug/L			10/18/23 13:45	1
1,2-Dibromo-3-Chloropropane	1.8	U Q J3	5.0	1.8	ug/L			10/18/23 13:45	1
1,2-Dibromoethane (EDB)	0.33	U Q	1.0	0.33	ug/L			10/18/23 13:45	1
1,2-Dichlorobenzene	0.31	U Q	1.0	0.31	ug/L			10/18/23 13:45	1
1,2-Dichloroethane	0.25	U Q	1.0	0.25	ug/L			10/18/23 13:45	1
1,2-Dichloropropane	0.22	U Q	1.0	0.22	ug/L			10/18/23 13:45	1
1,3-Dichlorobenzene	0.31	U Q	1.0	0.31	ug/L			10/18/23 13:45	1
1,4-Dichlorobenzene	0.31	U Q	1.0	0.31	ug/L			10/18/23 13:45	1
2-Butanone (MEK)	6.4	U Q J3	10	6.4	ug/L			10/18/23 13:45	1
2-Hexanone	3.2	U Q J3	10	3.2	ug/L			10/18/23 13:45	1
4-Methyl-2-pentanone	2.7	U Q J3	10	2.7	ug/L			10/18/23 13:45	1
Acetone	3.7	U Q J3	10	3.7	ug/L			10/18/23 13:45	1
Benzene	**0.28**	**I Q**	1.0	0.27	ug/L			10/18/23 13:45	1
Bromodichloromethane	0.25	U Q	1.0	0.25	ug/L			10/18/23 13:45	1
Bromoform	0.59	U Q	1.0	0.59	ug/L			10/18/23 13:45	1
Bromomethane	3.7	U Q	5.0	3.7	ug/L			10/18/23 13:45	1
Carbon disulfide	0.43	U Q	2.0	0.43	ug/L			10/18/23 13:45	1
Carbon tetrachloride	0.30	U Q	1.0	0.30	ug/L			10/18/23 13:45	1
Chlorobenzene	0.15	U Q	1.0	0.15	ug/L			10/18/23 13:45	1
Chloroethane	4.6	U Q	5.0	4.6	ug/L			10/18/23 13:45	1
Chloroform	0.27	U Q	1.0	0.27	ug/L			10/18/23 13:45	1

Client Sample ID: LC34-DPT0970-018.0-20231009
Lab Sample ID: 670-28390-3

Date Collected: 10/09/23 09:50
Matrix: Water
Date Received: 10/11/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	0.54	U Q	1.0	0.54	ug/L			10/18/23 13:45	1
cis-1,3-Dichloropropene	0.26	U Q	1.0	0.26	ug/L			10/18/23 13:45	1
Cyclohexane	0.28	U Q	1.0	0.28	ug/L			10/18/23 13:45	1
Dibromochloromethane	0.39	U Q	1.0	0.39	ug/L			10/18/23 13:45	1
Dichlorodifluoromethane	**4.2**	**Q**	1.0	0.36	ug/L			10/18/23 13:45	1
Ethylbenzene	0.20	U Q	1.0	0.20	ug/L			10/18/23 13:45	1
Isopropylbenzene	0.26	U Q	1.0	0.26	ug/L			10/18/23 13:45	1
m,p-Xylenes	0.49	U Q	1.0	0.49	ug/L			10/18/23 13:45	1
Methyl acetate	3.2	U Q	5.0	3.2	ug/L			10/18/23 13:45	1
Methyl tert-butyl ether	0.81	U Q	5.0	0.81	ug/L			10/18/23 13:45	1
Methylene Chloride	3.2	U Q	5.0	3.2	ug/L			10/18/23 13:45	1
o-Xylene	0.26	U Q	1.0	0.26	ug/L			10/18/23 13:45	1
Styrene	0.27	U Q	1.0	0.27	ug/L			10/18/23 13:45	1
Tetrachloroethene	0.35	U Q	1.0	0.35	ug/L			10/18/23 13:45	1
Toluene	0.25	U Q	1.0	0.25	ug/L			10/18/23 13:45	1
trans-1,3-Dichloropropene	0.23	U Q	1.0	0.23	ug/L			10/18/23 13:45	1
Trichloroethene	0.20	U Q	1.0	0.20	ug/L			10/18/23 13:45	1
Trichlorofluoromethane	0.33	U Q	1.0	0.33	ug/L			10/18/23 13:45	1
Xylenes, Total	0.23	U Q	1.0	0.23	ug/L			10/18/23 13:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 124*		*10/18/23 13:45*	*1*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*10/18/23 13:45*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*10/18/23 13:45*	*1*
Toluene-d8 (Surr)	*108*		*70 - 130*		*10/18/23 13:45*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**8800**	**Q**	100	25	ug/L			10/18/23 18:28	100
trans-1,2-Dichloroethene	**200**	**Q**	100	34	ug/L			10/18/23 18:28	100
Vinyl chloride	**2200**	**Q**	100	40	ug/L			10/18/23 18:28	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 124*		*10/18/23 18:28*	*100*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/18/23 18:28*	*100*
Dibromofluoromethane (Surr)	*107*		*70 - 130*		*10/18/23 18:28*	*100*
Toluene-d8 (Surr)	*107*		*70 - 130*		*10/18/23 18:28*	*100*

Client Sample ID: LC34-DPT0970-025.0-20231009
Lab Sample ID: 670-28390-4

Date Collected: 10/09/23 10:05
Matrix: Water
Date Received: 10/11/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	21	U Q	100	21	ug/L			10/18/23 18:47	100
1,1,2,2-Tetrachloroethane	40	U Q	100	40	ug/L			10/18/23 18:47	100
1,1,2-Trichloro-1,2,2-trifluoroethane	23	U Q	100	23	ug/L			10/18/23 18:47	100
1,1,2-Trichloroethane	32	U Q	100	32	ug/L			10/18/23 18:47	100
1,1-Dichloroethane	33	U Q	100	33	ug/L			10/18/23 18:47	100
1,1-Dichloroethene	33	U Q	100	33	ug/L			10/18/23 18:47	100
1,2,4-Trichlorobenzene	53	U Q	500	53	ug/L			10/18/23 18:47	100

Client: Tetra Tech, Inc.
Job ID: 670-28390-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT0970-025.0-20231009
Lab Sample ID: 670-28390-4
Date Collected: 10/09/23 10:05
Matrix: Water
Date Received: 10/11/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	180	U Q J3	500	180	ug/L			10/18/23 18:47	100
1,2-Dibromoethane (EDB)	33	U Q	100	33	ug/L			10/18/23 18:47	100
1,2-Dichlorobenzene	31	U Q	100	31	ug/L			10/18/23 18:47	100
1,2-Dichloroethane	25	U Q	100	25	ug/L			10/18/23 18:47	100
1,2-Dichloropropane	22	U Q	100	22	ug/L			10/18/23 18:47	100
1,3-Dichlorobenzene	31	U Q	100	31	ug/L			10/18/23 18:47	100
1,4-Dichlorobenzene	31	U Q	100	31	ug/L			10/18/23 18:47	100
2-Butanone (MEK)	640	U Q J3	1000	640	ug/L			10/18/23 18:47	100
2-Hexanone	320	U Q J3	1000	320	ug/L			10/18/23 18:47	100
4-Methyl-2-pentanone	270	U Q J3	1000	270	ug/L			10/18/23 18:47	100
Acetone	370	U Q J3	1000	370	ug/L			10/18/23 18:47	100
Benzene	27	U Q	100	27	ug/L			10/18/23 18:47	100
Bromodichloromethane	25	U Q	100	25	ug/L			10/18/23 18:47	100
Bromoform	59	U Q	100	59	ug/L			10/18/23 18:47	100
Bromomethane	370	U Q	500	370	ug/L			10/18/23 18:47	100
Carbon disulfide	43	U Q	200	43	ug/L			10/18/23 18:47	100
Carbon tetrachloride	30	U Q	100	30	ug/L			10/18/23 18:47	100
Chlorobenzene	15	U Q	100	15	ug/L			10/18/23 18:47	100
Chloroethane	460	U Q	500	460	ug/L			10/18/23 18:47	100
Chloroform	27	U Q	100	27	ug/L			10/18/23 18:47	100
Chloromethane	54	U Q	100	54	ug/L			10/18/23 18:47	100
cis-1,2-Dichloroethene	**42000**	**Q**	250	63	ug/L			10/19/23 15:59	250
cis-1,3-Dichloropropene	26	U Q	100	26	ug/L			10/18/23 18:47	100
Cyclohexane	28	U Q	100	28	ug/L			10/18/23 18:47	100
Dibromochloromethane	39	U Q	100	39	ug/L			10/18/23 18:47	100
Dichlorodifluoromethane	36	U Q	100	36	ug/L			10/18/23 18:47	100
Ethylbenzene	20	U Q	100	20	ug/L			10/18/23 18:47	100
Isopropylbenzene	26	U Q	100	26	ug/L			10/18/23 18:47	100
m,p-Xylenes	49	U Q	100	49	ug/L			10/18/23 18:47	100
Methyl acetate	320	U Q	500	320	ug/L			10/18/23 18:47	100
Methyl tert-butyl ether	81	U Q	500	81	ug/L			10/18/23 18:47	100
Methylene Chloride	320	U Q	500	320	ug/L			10/18/23 18:47	100
o-Xylene	26	U Q	100	26	ug/L			10/18/23 18:47	100
Styrene	27	U Q	100	27	ug/L			10/18/23 18:47	100
Tetrachloroethene	35	U Q	100	35	ug/L			10/18/23 18:47	100
Toluene	25	U Q	100	25	ug/L			10/18/23 18:47	100
trans-1,2-Dichloroethene	**1700**	**Q**	100	34	ug/L			10/18/23 18:47	100
trans-1,3-Dichloropropene	23	U Q	100	23	ug/L			10/18/23 18:47	100
Trichloroethene	20	U Q	100	20	ug/L			10/18/23 18:47	100
Trichlorofluoromethane	33	U Q	100	33	ug/L			10/18/23 18:47	100
Vinyl chloride	**12000**	**Q**	100	40	ug/L			10/18/23 18:47	100
Xylenes, Total	23	U Q	100	23	ug/L			10/18/23 18:47	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 124*		*10/18/23 18:47*	*100*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 124*		*10/19/23 15:59*	*250*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*10/18/23 18:47*	*100*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*10/19/23 15:59*	*250*
Dibromofluoromethane (Surr)	*110*		*70 - 130*		*10/18/23 18:47*	*100*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*10/19/23 15:59*	*250*

Client Sample ID: LC34-DPT0970-025.0-20231009
Lab Sample ID: 670-28390-4

Date Collected: 10/09/23 10:05
Matrix: Water
Date Received: 10/11/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*109*		*70 - 130*		*10/18/23 18:47*	*100*
Toluene-d8 (Surr)	*103*		*70 - 130*		*10/19/23 15:59*	*250*

Client Sample ID: LC34-DPT0970-034.0-20231009
Lab Sample ID: 670-28390-5

Date Collected: 10/09/23 10:25
Matrix: Water
Date Received: 10/11/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	42	U Q	200	42	ug/L			10/18/23 18:09	200
1,1,2,2-Tetrachloroethane	80	U Q	200	80	ug/L			10/18/23 18:09	200
1,1,2-Trichloro-1,2,2-trifluoroethane	46	U Q	200	46	ug/L			10/18/23 18:09	200
1,1,2-Trichloroethane	64	U Q	200	64	ug/L			10/18/23 18:09	200
1,1-Dichloroethane	66	U Q	200	66	ug/L			10/18/23 18:09	200
1,1-Dichloroethene	66	U Q	200	66	ug/L			10/18/23 18:09	200
1,2,4-Trichlorobenzene	110	U Q	1000	110	ug/L			10/18/23 18:09	200
1,2-Dibromo-3-Chloropropane	360	U Q J3	1000	360	ug/L			10/18/23 18:09	200
1,2-Dibromoethane (EDB)	66	U Q	200	66	ug/L			10/18/23 18:09	200
1,2-Dichlorobenzene	62	U Q	200	62	ug/L			10/18/23 18:09	200
1,2-Dichloroethane	50	U Q	200	50	ug/L			10/18/23 18:09	200
1,2-Dichloropropane	44	U Q	200	44	ug/L			10/18/23 18:09	200
1,3-Dichlorobenzene	62	U Q	200	62	ug/L			10/18/23 18:09	200
1,4-Dichlorobenzene	62	U Q	200	62	ug/L			10/18/23 18:09	200
2-Butanone (MEK)	1300	U Q J3	2000	1300	ug/L			10/18/23 18:09	200
2-Hexanone	640	U Q J3	2000	640	ug/L			10/18/23 18:09	200
4-Methyl-2-pentanone	540	U Q J3	2000	540	ug/L			10/18/23 18:09	200
Acetone	740	U Q J3	2000	740	ug/L			10/18/23 18:09	200
Benzene	54	U Q	200	54	ug/L			10/18/23 18:09	200
Bromodichloromethane	50	U Q	200	50	ug/L			10/18/23 18:09	200
Bromoform	120	U Q	200	120	ug/L			10/18/23 18:09	200
Bromomethane	740	U Q	1000	740	ug/L			10/18/23 18:09	200
Carbon disulfide	86	U Q	400	86	ug/L			10/18/23 18:09	200
Carbon tetrachloride	60	U Q	200	60	ug/L			10/18/23 18:09	200
Chlorobenzene	30	U Q	200	30	ug/L			10/18/23 18:09	200
Chloroethane	920	U Q	1000	920	ug/L			10/18/23 18:09	200
Chloroform	54	U Q	200	54	ug/L			10/18/23 18:09	200
Chloromethane	110	U Q	200	110	ug/L			10/18/23 18:09	200
cis-1,2-Dichloroethene	**27000**	**Q**	200	50	ug/L			10/18/23 18:09	200
cis-1,3-Dichloropropene	52	U Q	200	52	ug/L			10/18/23 18:09	200
Cyclohexane	56	U Q	200	56	ug/L			10/18/23 18:09	200
Dibromochloromethane	78	U Q	200	78	ug/L			10/18/23 18:09	200
Dichlorodifluoromethane	72	U Q	200	72	ug/L			10/18/23 18:09	200
Ethylbenzene	40	U Q	200	40	ug/L			10/18/23 18:09	200
Isopropylbenzene	52	U Q	200	52	ug/L			10/18/23 18:09	200
m,p-Xylenes	98	U Q	200	98	ug/L			10/18/23 18:09	200
Methyl acetate	640	U Q	1000	640	ug/L			10/18/23 18:09	200
Methyl tert-butyl ether	160	U Q	1000	160	ug/L			10/18/23 18:09	200
Methylene Chloride	640	U Q	1000	640	ug/L			10/18/23 18:09	200
o-Xylene	52	U Q	200	52	ug/L			10/18/23 18:09	200

Client Sample ID: LC34-DPT0970-034.0-20231009
Lab Sample ID: 670-28390-5

Date Collected: 10/09/23 10:25
Matrix: Water
Date Received: 10/11/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	54	U Q	200	54	ug/L			10/18/23 18:09	200
Tetrachloroethene	70	U Q	200	70	ug/L			10/18/23 18:09	200
Toluene	50	U Q	200	50	ug/L			10/18/23 18:09	200
trans-1,2-Dichloroethene	**380**	**Q**	200	68	ug/L			10/18/23 18:09	200
trans-1,3-Dichloropropene	46	U Q	200	46	ug/L			10/18/23 18:09	200
Trichloroethene	40	U Q	200	40	ug/L			10/18/23 18:09	200
Trichlorofluoromethane	66	U Q	200	66	ug/L			10/18/23 18:09	200
Vinyl chloride	**8800**	**Q**	200	80	ug/L			10/18/23 18:09	200
Xylenes, Total	46	U Q	200	46	ug/L			10/18/23 18:09	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 124*		*10/18/23 18:09*	*200*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*10/18/23 18:09*	*200*
Dibromofluoromethane (Surr)	*108*		*70 - 130*		*10/18/23 18:09*	*200*
Toluene-d8 (Surr)	*111*		*70 - 130*		*10/18/23 18:09*	*200*

Client Sample ID: LC34-DPT0970-038.0-20231009
Lab Sample ID: 670-28390-6

Date Collected: 10/09/23 10:45
Matrix: Water
Date Received: 10/11/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	11	U Q	50	11	ug/L			10/18/23 19:37	50
1,1,2,2-Tetrachloroethane	20	U Q	50	20	ug/L			10/18/23 19:37	50
1,1,2-Trichloro-1,2,2-trifluoroethane	12	U Q	50	12	ug/L			10/18/23 19:37	50
1,1,2-Trichloroethane	16	U Q	50	16	ug/L			10/18/23 19:37	50
1,1-Dichloroethane	17	U Q	50	17	ug/L			10/18/23 19:37	50
1,1-Dichloroethene	17	U Q	50	17	ug/L			10/18/23 19:37	50
1,2,4-Trichlorobenzene	27	U Q	250	27	ug/L			10/18/23 19:37	50
1,2-Dibromo-3-Chloropropane	90	U Q	250	90	ug/L			10/18/23 19:37	50
1,2-Dibromoethane (EDB)	17	U Q	50	17	ug/L			10/18/23 19:37	50
1,2-Dichlorobenzene	16	U Q	50	16	ug/L			10/18/23 19:37	50
1,2-Dichloroethane	13	U Q	50	13	ug/L			10/18/23 19:37	50
1,2-Dichloropropane	11	U Q	50	11	ug/L			10/18/23 19:37	50
1,3-Dichlorobenzene	16	U Q	50	16	ug/L			10/18/23 19:37	50
1,4-Dichlorobenzene	16	U Q	50	16	ug/L			10/18/23 19:37	50
2-Butanone (MEK)	320	U Q	500	320	ug/L			10/18/23 19:37	50
2-Hexanone	160	U Q	500	160	ug/L			10/18/23 19:37	50
4-Methyl-2-pentanone	140	U Q	500	140	ug/L			10/18/23 19:37	50
Acetone	190	U Q	500	190	ug/L			10/18/23 19:37	50
Benzene	14	U Q	50	14	ug/L			10/18/23 19:37	50
Bromodichloromethane	13	U Q	50	13	ug/L			10/18/23 19:37	50
Bromoform	30	U Q	50	30	ug/L			10/18/23 19:37	50
Bromomethane	190	U Q	250	190	ug/L			10/18/23 19:37	50
Carbon disulfide	22	U Q	100	22	ug/L			10/18/23 19:37	50
Carbon tetrachloride	15	U Q	50	15	ug/L			10/18/23 19:37	50
Chlorobenzene	7.5	U Q	50	7.5	ug/L			10/18/23 19:37	50
Chloroethane	230	U Q	250	230	ug/L			10/18/23 19:37	50
Chloroform	14	U Q	50	14	ug/L			10/18/23 19:37	50
Chloromethane	27	U Q	50	27	ug/L			10/18/23 19:37	50

Client Sample ID: LC34-DPT0970-038.0-20231009
Lab Sample ID: 670-28390-6

Date Collected: 10/09/23 10:45
Matrix: Water
Date Received: 10/11/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**2300**	**Q**	50	13	ug/L			10/18/23 19:37	50
cis-1,3-Dichloropropene	13	U Q	50	13	ug/L			10/18/23 19:37	50
Cyclohexane	14	U Q	50	14	ug/L			10/18/23 19:37	50
Dibromochloromethane	20	U Q	50	20	ug/L			10/18/23 19:37	50
Dichlorodifluoromethane	18	U Q	50	18	ug/L			10/18/23 19:37	50
Ethylbenzene	10	U Q	50	10	ug/L			10/18/23 19:37	50
Isopropylbenzene	13	U Q	50	13	ug/L			10/18/23 19:37	50
m,p-Xylenes	25	U Q	50	25	ug/L			10/18/23 19:37	50
Methyl acetate	160	U Q	250	160	ug/L			10/18/23 19:37	50
Methyl tert-butyl ether	41	U Q	250	41	ug/L			10/18/23 19:37	50
Methylene Chloride	160	U Q	250	160	ug/L			10/18/23 19:37	50
o-Xylene	13	U Q	50	13	ug/L			10/18/23 19:37	50
Styrene	14	U Q	50	14	ug/L			10/18/23 19:37	50
Tetrachloroethene	18	U Q	50	18	ug/L			10/18/23 19:37	50
Toluene	13	U Q	50	13	ug/L			10/18/23 19:37	50
trans-1,2-Dichloroethene	17	U Q	50	17	ug/L			10/18/23 19:37	50
trans-1,3-Dichloropropene	12	U Q	50	12	ug/L			10/18/23 19:37	50
Trichloroethene	**16**	**I Q**	50	10	ug/L			10/18/23 19:37	50
Trichlorofluoromethane	17	U Q J3	50	17	ug/L			10/18/23 19:37	50
Vinyl chloride	20	U Q	50	20	ug/L			10/18/23 19:37	50
Xylenes, Total	12	U Q	50	12	ug/L			10/18/23 19:37	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 124*		*10/18/23 19:37*	*50*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*10/18/23 19:37*	*50*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*10/18/23 19:37*	*50*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/18/23 19:37*	*50*

Client Sample ID: LC34-DPT0971-008.0-20231009
Lab Sample ID: 670-28390-7

Date Collected: 10/09/23 11:20
Matrix: Water
Date Received: 10/11/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U Q	1.0	0.21	ug/L			10/18/23 15:18	1
1,1,2,2-Tetrachloroethane	0.40	U Q	1.0	0.40	ug/L			10/18/23 15:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U Q	1.0	0.23	ug/L			10/18/23 15:18	1
1,1,2-Trichloroethane	0.32	U Q	1.0	0.32	ug/L			10/18/23 15:18	1
1,1-Dichloroethane	0.33	U Q	1.0	0.33	ug/L			10/18/23 15:18	1
1,1-Dichloroethene	0.33	U Q	1.0	0.33	ug/L			10/18/23 15:18	1
1,2,4-Trichlorobenzene	0.53	U Q	5.0	0.53	ug/L			10/18/23 15:18	1
1,2-Dibromo-3-Chloropropane	1.8	U Q J3	5.0	1.8	ug/L			10/18/23 15:18	1
1,2-Dibromoethane (EDB)	0.33	U Q	1.0	0.33	ug/L			10/18/23 15:18	1
1,2-Dichlorobenzene	0.31	U Q	1.0	0.31	ug/L			10/18/23 15:18	1
1,2-Dichloroethane	0.25	U Q	1.0	0.25	ug/L			10/18/23 15:18	1
1,2-Dichloropropane	0.22	U Q	1.0	0.22	ug/L			10/18/23 15:18	1
1,3-Dichlorobenzene	0.31	U Q	1.0	0.31	ug/L			10/18/23 15:18	1
1,4-Dichlorobenzene	0.31	U Q	1.0	0.31	ug/L			10/18/23 15:18	1
2-Butanone (MEK)	6.4	U Q J3	10	6.4	ug/L			10/18/23 15:18	1
2-Hexanone	3.2	U Q J3	10	3.2	ug/L			10/18/23 15:18	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28390-1

Client Sample ID: LC34-DPT0971-008.0-20231009
Date Collected: 10/09/23 11:20
Date Received: 10/11/23 08:00

Lab Sample ID: 670-28390-7
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone	2.7	U Q J3	10	2.7	ug/L			10/18/23 15:18	1
Acetone	3.7	U Q J3	10	3.7	ug/L			10/18/23 15:18	1
Benzene	0.27	U Q	1.0	0.27	ug/L			10/18/23 15:18	1
Bromodichloromethane	0.25	U Q	1.0	0.25	ug/L			10/18/23 15:18	1
Bromoform	0.59	U Q	1.0	0.59	ug/L			10/18/23 15:18	1
Bromomethane	3.7	U Q	5.0	3.7	ug/L			10/18/23 15:18	1
Carbon disulfide	0.43	U Q	2.0	0.43	ug/L			10/18/23 15:18	1
Carbon tetrachloride	0.30	U Q	1.0	0.30	ug/L			10/18/23 15:18	1
Chlorobenzene	0.15	U Q	1.0	0.15	ug/L			10/18/23 15:18	1
Chloroethane	4.6	U Q	5.0	4.6	ug/L			10/18/23 15:18	1
Chloroform	0.27	U Q	1.0	0.27	ug/L			10/18/23 15:18	1
Chloromethane	0.54	U Q	1.0	0.54	ug/L			10/18/23 15:18	1
cis-1,2-Dichloroethene	**3.9**	**Q**	1.0	0.25	ug/L			10/19/23 12:50	1
cis-1,3-Dichloropropene	0.26	U Q	1.0	0.26	ug/L			10/18/23 15:18	1
Cyclohexane	0.28	U Q	1.0	0.28	ug/L			10/18/23 15:18	1
Dibromochloromethane	0.39	U Q	1.0	0.39	ug/L			10/18/23 15:18	1
Dichlorodifluoromethane	0.36	U Q	1.0	0.36	ug/L			10/18/23 15:18	1
Ethylbenzene	0.20	U Q	1.0	0.20	ug/L			10/18/23 15:18	1
Isopropylbenzene	0.26	U Q	1.0	0.26	ug/L			10/18/23 15:18	1
m,p-Xylenes	0.49	U Q	1.0	0.49	ug/L			10/18/23 15:18	1
Methyl acetate	3.2	U Q	5.0	3.2	ug/L			10/18/23 15:18	1
Methyl tert-butyl ether	0.81	U Q	5.0	0.81	ug/L			10/18/23 15:18	1
Methylene Chloride	3.2	U Q	5.0	3.2	ug/L			10/18/23 15:18	1
o-Xylene	0.26	U Q	1.0	0.26	ug/L			10/18/23 15:18	1
Styrene	0.27	U Q	1.0	0.27	ug/L			10/18/23 15:18	1
Tetrachloroethene	0.35	U Q	1.0	0.35	ug/L			10/18/23 15:18	1
Toluene	0.25	U Q	1.0	0.25	ug/L			10/18/23 15:18	1
trans-1,2-Dichloroethene	0.34	U Q	1.0	0.34	ug/L			10/18/23 15:18	1
trans-1,3-Dichloropropene	0.23	U Q	1.0	0.23	ug/L			10/18/23 15:18	1
Trichloroethene	0.20	U Q	1.0	0.20	ug/L			10/18/23 15:18	1
Trichlorofluoromethane	0.33	U Q	1.0	0.33	ug/L			10/18/23 15:18	1
Vinyl chloride	**5.7**	**Q**	1.0	0.40	ug/L			10/18/23 15:18	1
Xylenes, Total	0.23	U Q	1.0	0.23	ug/L			10/18/23 15:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 124*		*10/18/23 15:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*		*10/19/23 12:50*	*1*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*10/18/23 15:18*	*1*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*10/19/23 12:50*	*1*
Dibromofluoromethane (Surr)	*107*		*70 - 130*		*10/18/23 15:18*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*10/19/23 12:50*	*1*
Toluene-d8 (Surr)	*108*		*70 - 130*		*10/18/23 15:18*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*10/19/23 12:50*	*1*

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28390-1

Client Sample ID: LC34-DPT0971-013.0-20231009
Date Collected: 10/09/23 11:35
Date Received: 10/11/23 08:00

Lab Sample ID: 670-28390-8
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/19/23 13:28	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/19/23 13:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/19/23 13:28	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/19/23 13:28	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/19/23 13:28	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/19/23 13:28	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/19/23 13:28	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/19/23 13:28	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/19/23 13:28	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/19/23 13:28	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/19/23 13:28	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/19/23 13:28	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/19/23 13:28	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/19/23 13:28	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/19/23 13:28	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/19/23 13:28	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/19/23 13:28	1
Acetone	3.7	U	10	3.7	ug/L			10/19/23 13:28	1
Benzene	0.27	U	1.0	0.27	ug/L			10/19/23 13:28	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/19/23 13:28	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/19/23 13:28	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/19/23 13:28	1
Carbon disulfide	**0.96**	**I**	2.0	0.43	ug/L			10/19/23 13:28	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/19/23 13:28	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/19/23 13:28	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/19/23 13:28	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/19/23 13:28	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/19/23 13:28	1
cis-1,2-Dichloroethene	**7.2**		1.0	0.25	ug/L			10/19/23 13:28	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/19/23 13:28	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/19/23 13:28	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/19/23 13:28	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/19/23 13:28	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/19/23 13:28	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/19/23 13:28	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/19/23 13:28	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/19/23 13:28	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/19/23 13:28	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/19/23 13:28	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/19/23 13:28	1
Styrene	0.27	U	1.0	0.27	ug/L			10/19/23 13:28	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/19/23 13:28	1
Toluene	0.25	U	1.0	0.25	ug/L			10/19/23 13:28	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/19/23 13:28	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/19/23 13:28	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/19/23 13:28	1
Trichlorofluoromethane	0.33	U J3	1.0	0.33	ug/L			10/19/23 13:28	1
Vinyl chloride	**47**		1.0	0.40	ug/L			10/19/23 13:28	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/19/23 13:28	1

Client Sample ID: LC34-DPT0971-013.0-20231009
Lab Sample ID: 670-28390-8

Date Collected: 10/09/23 11:35
Matrix: Water
Date Received: 10/11/23 08:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 124*		*10/19/23 13:28*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/19/23 13:28*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*10/19/23 13:28*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*10/19/23 13:28*	*1*

Client Sample ID: LC34-DPT0971-018.0-20231009
Lab Sample ID: 670-28390-9

Date Collected: 10/09/23 11:50
Matrix: Water
Date Received: 10/11/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U Q	5.0	1.1	ug/L			10/18/23 20:20	5
1,1,2,2-Tetrachloroethane	2.0	U Q	5.0	2.0	ug/L			10/18/23 20:20	5
1,1,2-Trichloro-1,2,2-trifluoroethane	1.2	U Q	5.0	1.2	ug/L			10/18/23 20:20	5
1,1,2-Trichloroethane	1.6	U Q	5.0	1.6	ug/L			10/18/23 20:20	5
1,1-Dichloroethane	1.7	U Q	5.0	1.7	ug/L			10/18/23 20:20	5
1,1-Dichloroethene	1.7	U Q	5.0	1.7	ug/L			10/18/23 20:20	5
1,2,4-Trichlorobenzene	2.7	U Q	25	2.7	ug/L			10/18/23 20:20	5
1,2-Dibromo-3-Chloropropane	9.0	U Q	25	9.0	ug/L			10/18/23 20:20	5
1,2-Dibromoethane (EDB)	1.7	U Q	5.0	1.7	ug/L			10/18/23 20:20	5
1,2-Dichlorobenzene	1.6	U Q	5.0	1.6	ug/L			10/18/23 20:20	5
1,2-Dichloroethane	1.3	U Q	5.0	1.3	ug/L			10/18/23 20:20	5
1,2-Dichloropropane	1.1	U Q	5.0	1.1	ug/L			10/18/23 20:20	5
1,3-Dichlorobenzene	1.6	U Q	5.0	1.6	ug/L			10/18/23 20:20	5
1,4-Dichlorobenzene	1.6	U Q	5.0	1.6	ug/L			10/18/23 20:20	5
2-Butanone (MEK)	32	U Q	50	32	ug/L			10/18/23 20:20	5
2-Hexanone	16	U Q	50	16	ug/L			10/18/23 20:20	5
4-Methyl-2-pentanone	14	U Q	50	14	ug/L			10/18/23 20:20	5
Acetone	19	U Q	50	19	ug/L			10/18/23 20:20	5
Benzene	1.4	U Q	5.0	1.4	ug/L			10/18/23 20:20	5
Bromodichloromethane	1.3	U Q	5.0	1.3	ug/L			10/18/23 20:20	5
Bromoform	3.0	U Q	5.0	3.0	ug/L			10/18/23 20:20	5
Bromomethane	19	U Q	25	19	ug/L			10/18/23 20:20	5
Carbon disulfide	2.2	U Q	10	2.2	ug/L			10/18/23 20:20	5
Carbon tetrachloride	1.5	U Q	5.0	1.5	ug/L			10/18/23 20:20	5
Chlorobenzene	0.75	U Q	5.0	0.75	ug/L			10/18/23 20:20	5
Chloroethane	**40**	**Q**	25	23	ug/L			10/18/23 20:20	5
Chloroform	1.4	U Q	5.0	1.4	ug/L			10/18/23 20:20	5
Chloromethane	2.7	U Q	5.0	2.7	ug/L			10/18/23 20:20	5
cis-1,2-Dichloroethene	**400**	**Q**	5.0	1.3	ug/L			10/18/23 20:20	5
cis-1,3-Dichloropropene	1.3	U Q	5.0	1.3	ug/L			10/18/23 20:20	5
Cyclohexane	1.4	U Q	5.0	1.4	ug/L			10/18/23 20:20	5
Dibromochloromethane	2.0	U Q	5.0	2.0	ug/L			10/18/23 20:20	5
Dichlorodifluoromethane	1.8	U Q	5.0	1.8	ug/L			10/18/23 20:20	5
Ethylbenzene	1.0	U Q	5.0	1.0	ug/L			10/18/23 20:20	5
Isopropylbenzene	1.3	U Q	5.0	1.3	ug/L			10/18/23 20:20	5
m,p-Xylenes	2.5	U Q	5.0	2.5	ug/L			10/18/23 20:20	5
Methyl acetate	16	U Q	25	16	ug/L			10/18/23 20:20	5
Methyl tert-butyl ether	4.1	U Q	25	4.1	ug/L			10/18/23 20:20	5
Methylene Chloride	16	U Q	25	16	ug/L			10/18/23 20:20	5

Client Sample ID: LC34-DPT0971-018.0-20231009
Lab Sample ID: 670-28390-9

Date Collected: 10/09/23 11:50
Matrix: Water
Date Received: 10/11/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	1.3	U Q	5.0	1.3	ug/L			10/18/23 20:20	5
Styrene	1.4	U Q	5.0	1.4	ug/L			10/18/23 20:20	5
Tetrachloroethene	1.8	U Q	5.0	1.8	ug/L			10/18/23 20:20	5
Toluene	1.3	U Q	5.0	1.3	ug/L			10/18/23 20:20	5
trans-1,2-Dichloroethene	1.7	U Q	5.0	1.7	ug/L			10/18/23 20:20	5
trans-1,3-Dichloropropene	1.2	U Q	5.0	1.2	ug/L			10/18/23 20:20	5
Trichloroethene	1.0	U Q	5.0	1.0	ug/L			10/18/23 20:20	5
Trichlorofluoromethane	1.7	U Q J3	5.0	1.7	ug/L			10/18/23 20:20	5
Vinyl chloride	**380**	**Q**	5.0	2.0	ug/L			10/18/23 20:20	5
Xylenes, Total	1.2	U Q	5.0	1.2	ug/L			10/18/23 20:20	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 124*		*10/18/23 20:20*	*5*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/18/23 20:20*	*5*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*10/18/23 20:20*	*5*
Toluene-d8 (Surr)	*102*		*70 - 130*		*10/18/23 20:20*	*5*

Client Sample ID: LC34-DPT0971-025.0-20231009
Lab Sample ID: 670-28390-10

Date Collected: 10/09/23 12:10
Matrix: Water
Date Received: 10/11/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	53	U Q	250	53	ug/L			10/18/23 17:50	250
1,1,2,2-Tetrachloroethane	100	U Q	250	100	ug/L			10/18/23 17:50	250
1,1,2-Trichloro-1,2,2-trifluoroethane	58	U Q	250	58	ug/L			10/18/23 17:50	250
1,1,2-Trichloroethane	80	U Q	250	80	ug/L			10/18/23 17:50	250
1,1-Dichloroethane	83	U Q	250	83	ug/L			10/18/23 17:50	250
1,1-Dichloroethene	83	U Q	250	83	ug/L			10/18/23 17:50	250
1,2,4-Trichlorobenzene	130	U Q	1300	130	ug/L			10/18/23 17:50	250
1,2-Dibromo-3-Chloropropane	450	U Q J3	1300	450	ug/L			10/18/23 17:50	250
1,2-Dibromoethane (EDB)	83	U Q	250	83	ug/L			10/18/23 17:50	250
1,2-Dichlorobenzene	78	U Q	250	78	ug/L			10/18/23 17:50	250
1,2-Dichloroethane	63	U Q	250	63	ug/L			10/18/23 17:50	250
1,2-Dichloropropane	55	U Q	250	55	ug/L			10/18/23 17:50	250
1,3-Dichlorobenzene	78	U Q	250	78	ug/L			10/18/23 17:50	250
1,4-Dichlorobenzene	78	U Q	250	78	ug/L			10/18/23 17:50	250
2-Butanone (MEK)	1600	U Q J3	2500	1600	ug/L			10/18/23 17:50	250
2-Hexanone	800	U Q J3	2500	800	ug/L			10/18/23 17:50	250
4-Methyl-2-pentanone	680	U Q J3	2500	680	ug/L			10/18/23 17:50	250
Acetone	930	U Q J3	2500	930	ug/L			10/18/23 17:50	250
Benzene	68	U Q	250	68	ug/L			10/18/23 17:50	250
Bromodichloromethane	63	U Q	250	63	ug/L			10/18/23 17:50	250
Bromoform	150	U Q	250	150	ug/L			10/18/23 17:50	250
Bromomethane	930	U Q	1300	930	ug/L			10/18/23 17:50	250
Carbon disulfide	110	U Q	500	110	ug/L			10/18/23 17:50	250
Carbon tetrachloride	75	U Q	250	75	ug/L			10/18/23 17:50	250
Chlorobenzene	38	U Q	250	38	ug/L			10/18/23 17:50	250
Chloroethane	1200	U Q	1300	1200	ug/L			10/18/23 17:50	250
Chloroform	68	U Q	250	68	ug/L			10/18/23 17:50	250

Client Sample ID: LC34-DPT0971-025.0-20231009
Lab Sample ID: 670-28390-10

Date Collected: 10/09/23 12:10
Matrix: Water
Date Received: 10/11/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	140	U Q	250	140	ug/L			10/18/23 17:50	250
cis-1,2-Dichloroethene	**29000**	**Q**	250	63	ug/L			10/18/23 17:50	250
cis-1,3-Dichloropropene	65	U Q	250	65	ug/L			10/18/23 17:50	250
Cyclohexane	70	U Q	250	70	ug/L			10/18/23 17:50	250
Dibromochloromethane	98	U Q	250	98	ug/L			10/18/23 17:50	250
Dichlorodifluoromethane	90	U Q	250	90	ug/L			10/18/23 17:50	250
Ethylbenzene	50	U Q	250	50	ug/L			10/18/23 17:50	250
Isopropylbenzene	65	U Q	250	65	ug/L			10/18/23 17:50	250
m,p-Xylenes	120	U Q	250	120	ug/L			10/18/23 17:50	250
Methyl acetate	800	U Q	1300	800	ug/L			10/18/23 17:50	250
Methyl tert-butyl ether	200	U Q	1300	200	ug/L			10/18/23 17:50	250
Methylene Chloride	800	U Q	1300	800	ug/L			10/18/23 17:50	250
o-Xylene	65	U Q	250	65	ug/L			10/18/23 17:50	250
Styrene	68	U Q	250	68	ug/L			10/18/23 17:50	250
Tetrachloroethene	88	U Q	250	88	ug/L			10/18/23 17:50	250
Toluene	63	U Q	250	63	ug/L			10/18/23 17:50	250
trans-1,2-Dichloroethene	**500**	**Q**	250	85	ug/L			10/18/23 17:50	250
trans-1,3-Dichloropropene	58	U Q	250	58	ug/L			10/18/23 17:50	250
Trichloroethene	50	U Q	250	50	ug/L			10/18/23 17:50	250
Trichlorofluoromethane	83	U Q	250	83	ug/L			10/18/23 17:50	250
Vinyl chloride	**5800**	**Q**	250	100	ug/L			10/18/23 17:50	250
Xylenes, Total	58	U Q	250	58	ug/L			10/18/23 17:50	250

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*		*10/18/23 17:50*	*250*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*10/18/23 17:50*	*250*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*10/18/23 17:50*	*250*
Toluene-d8 (Surr)	*108*		*70 - 130*		*10/18/23 17:50*	*250*

Client Sample ID: LC34-DPT0971-034.0-20231009
Lab Sample ID: 670-28390-11

Date Collected: 10/09/23 12:35
Matrix: Water
Date Received: 10/11/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.3	U	25	5.3	ug/L			10/19/23 23:49	25
1,1,2,2-Tetrachloroethane	10	U	25	10	ug/L			10/19/23 23:49	25
1,1,2-Trichloro-1,2,2-trifluoroethane	5.8	U	25	5.8	ug/L			10/19/23 23:49	25
1,1,2-Trichloroethane	8.0	U	25	8.0	ug/L			10/19/23 23:49	25
1,1-Dichloroethane	8.3	U	25	8.3	ug/L			10/19/23 23:49	25
1,1-Dichloroethene	8.3	U	25	8.3	ug/L			10/19/23 23:49	25
1,2,4-Trichlorobenzene	13	U	130	13	ug/L			10/19/23 23:49	25
1,2-Dibromo-3-Chloropropane	45	U	130	45	ug/L			10/19/23 23:49	25
1,2-Dibromoethane (EDB)	8.3	U	25	8.3	ug/L			10/19/23 23:49	25
1,2-Dichlorobenzene	7.8	U	25	7.8	ug/L			10/19/23 23:49	25
1,2-Dichloroethane	6.3	U	25	6.3	ug/L			10/19/23 23:49	25
1,2-Dichloropropane	5.5	U	25	5.5	ug/L			10/19/23 23:49	25
1,3-Dichlorobenzene	7.8	U	25	7.8	ug/L			10/19/23 23:49	25
1,4-Dichlorobenzene	7.8	U	25	7.8	ug/L			10/19/23 23:49	25
2-Butanone (MEK)	160	U	250	160	ug/L			10/19/23 23:49	25

Client Sample ID: LC34-DPT0971-034.0-20231009
Lab Sample ID: 670-28390-11

Date Collected: 10/09/23 12:35
Matrix: Water
Date Received: 10/11/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	80	U	250	80	ug/L			10/19/23 23:49	25
4-Methyl-2-pentanone	68	U	250	68	ug/L			10/19/23 23:49	25
Acetone	93	U	250	93	ug/L			10/19/23 23:49	25
Benzene	**370**		25	6.8	ug/L			10/19/23 23:49	25
Bromodichloromethane	6.3	U	25	6.3	ug/L			10/19/23 23:49	25
Bromoform	15	U	25	15	ug/L			10/19/23 23:49	25
Bromomethane	93	U	130	93	ug/L			10/19/23 23:49	25
Carbon disulfide	11	U	50	11	ug/L			10/19/23 23:49	25
Carbon tetrachloride	7.5	U	25	7.5	ug/L			10/19/23 23:49	25
Chlorobenzene	3.8	U	25	3.8	ug/L			10/19/23 23:49	25
Chloroethane	120	U	130	120	ug/L			10/19/23 23:49	25
Chloroform	6.8	U	25	6.8	ug/L			10/19/23 23:49	25
Chloromethane	14	U	25	14	ug/L			10/19/23 23:49	25
cis-1,2-Dichloroethene	**17**	**I**	25	6.3	ug/L			10/19/23 23:49	25
cis-1,3-Dichloropropene	6.5	U	25	6.5	ug/L			10/19/23 23:49	25
Cyclohexane	**1500**		25	7.0	ug/L			10/19/23 23:49	25
Dibromochloromethane	9.8	U	25	9.8	ug/L			10/19/23 23:49	25
Dichlorodifluoromethane	9.0	U	25	9.0	ug/L			10/19/23 23:49	25
Ethylbenzene	**83**		25	5.0	ug/L			10/19/23 23:49	25
Isopropylbenzene	**230**		25	6.5	ug/L			10/19/23 23:49	25
m,p-Xylenes	**890**		25	12	ug/L			10/19/23 23:49	25
Methyl acetate	80	U	130	80	ug/L			10/19/23 23:49	25
Methyl tert-butyl ether	20	U	130	20	ug/L			10/19/23 23:49	25
Methylene Chloride	80	U	130	80	ug/L			10/19/23 23:49	25
o-Xylene	**32**		25	6.5	ug/L			10/19/23 23:49	25
Styrene	6.8	U	25	6.8	ug/L			10/19/23 23:49	25
Tetrachloroethene	8.8	U	25	8.8	ug/L			10/19/23 23:49	25
Toluene	6.3	U	25	6.3	ug/L			10/19/23 23:49	25
trans-1,2-Dichloroethene	8.5	U	25	8.5	ug/L			10/19/23 23:49	25
trans-1,3-Dichloropropene	5.8	U	25	5.8	ug/L			10/19/23 23:49	25
Trichloroethene	5.0	U	25	5.0	ug/L			10/19/23 23:49	25
Trichlorofluoromethane	8.3	U	25	8.3	ug/L			10/19/23 23:49	25
Vinyl chloride	10	U	25	10	ug/L			10/19/23 23:49	25
Xylenes, Total	**920**		25	5.8	ug/L			10/19/23 23:49	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 124*		*10/19/23 23:49*	*25*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*10/19/23 23:49*	*25*
Dibromofluoromethane (Surr)	*108*		*70 - 130*		*10/19/23 23:49*	*25*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/19/23 23:49*	*25*

Client Sample ID: LC34-DPT0971-038.0-20231009
Lab Sample ID: 670-28390-12

Date Collected: 10/09/23 13:00
Matrix: Water
Date Received: 10/11/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U Q	1.0	0.21	ug/L			10/18/23 15:56	1
1,1,2,2-Tetrachloroethane	0.40	U Q	1.0	0.40	ug/L			10/18/23 15:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U Q	1.0	0.23	ug/L			10/18/23 15:56	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28390-1

Client Sample ID: LC34-DPT0971-038.0-20231009
Date Collected: 10/09/23 13:00
Date Received: 10/11/23 08:00

Lab Sample ID: 670-28390-12
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	0.32	U Q	1.0	0.32	ug/L			10/18/23 15:56	1
1,1-Dichloroethane	0.33	U Q	1.0	0.33	ug/L			10/18/23 15:56	1
1,1-Dichloroethene	0.33	U Q	1.0	0.33	ug/L			10/18/23 15:56	1
1,2,4-Trichlorobenzene	0.53	U Q	5.0	0.53	ug/L			10/18/23 15:56	1
1,2-Dibromo-3-Chloropropane	1.8	U Q J3	5.0	1.8	ug/L			10/18/23 15:56	1
1,2-Dibromoethane (EDB)	0.33	U Q	1.0	0.33	ug/L			10/18/23 15:56	1
1,2-Dichlorobenzene	0.31	U Q	1.0	0.31	ug/L			10/18/23 15:56	1
1,2-Dichloroethane	0.25	U Q	1.0	0.25	ug/L			10/18/23 15:56	1
1,2-Dichloropropane	0.22	U Q	1.0	0.22	ug/L			10/18/23 15:56	1
1,3-Dichlorobenzene	0.31	U Q	1.0	0.31	ug/L			10/18/23 15:56	1
1,4-Dichlorobenzene	0.31	U Q	1.0	0.31	ug/L			10/18/23 15:56	1
2-Butanone (MEK)	6.4	U Q J3	10	6.4	ug/L			10/18/23 15:56	1
2-Hexanone	3.2	U Q J3	10	3.2	ug/L			10/18/23 15:56	1
4-Methyl-2-pentanone	2.7	U Q J3	10	2.7	ug/L			10/18/23 15:56	1
Acetone	3.7	U Q J3	10	3.7	ug/L			10/18/23 15:56	1
Benzene	0.27	U Q	1.0	0.27	ug/L			10/18/23 15:56	1
Bromodichloromethane	0.25	U Q	1.0	0.25	ug/L			10/18/23 15:56	1
Bromoform	0.59	U Q	1.0	0.59	ug/L			10/18/23 15:56	1
Bromomethane	3.7	U Q	5.0	3.7	ug/L			10/18/23 15:56	1
Carbon disulfide	0.43	U Q	2.0	0.43	ug/L			10/18/23 15:56	1
Carbon tetrachloride	0.30	U Q	1.0	0.30	ug/L			10/18/23 15:56	1
Chlorobenzene	0.15	U Q	1.0	0.15	ug/L			10/18/23 15:56	1
Chloroethane	4.6	U Q	5.0	4.6	ug/L			10/18/23 15:56	1
Chloroform	0.27	U Q	1.0	0.27	ug/L			10/18/23 15:56	1
Chloromethane	0.54	U Q	1.0	0.54	ug/L			10/18/23 15:56	1
cis-1,2-Dichloroethene	**7.3**	**Q**	1.0	0.25	ug/L			10/19/23 13:09	1
cis-1,3-Dichloropropene	0.26	U Q	1.0	0.26	ug/L			10/18/23 15:56	1
Cyclohexane	0.28	U Q	1.0	0.28	ug/L			10/18/23 15:56	1
Dibromochloromethane	0.39	U Q	1.0	0.39	ug/L			10/18/23 15:56	1
Dichlorodifluoromethane	0.36	U Q	1.0	0.36	ug/L			10/18/23 15:56	1
Ethylbenzene	0.20	U Q	1.0	0.20	ug/L			10/18/23 15:56	1
Isopropylbenzene	0.26	U Q	1.0	0.26	ug/L			10/18/23 15:56	1
m,p-Xylenes	0.49	U Q	1.0	0.49	ug/L			10/18/23 15:56	1
Methyl acetate	3.2	U Q	5.0	3.2	ug/L			10/18/23 15:56	1
Methyl tert-butyl ether	0.81	U Q	5.0	0.81	ug/L			10/18/23 15:56	1
Methylene Chloride	3.2	U Q	5.0	3.2	ug/L			10/18/23 15:56	1
o-Xylene	0.26	U Q	1.0	0.26	ug/L			10/18/23 15:56	1
Styrene	0.27	U Q	1.0	0.27	ug/L			10/18/23 15:56	1
Tetrachloroethene	0.35	U Q	1.0	0.35	ug/L			10/18/23 15:56	1
Toluene	0.25	U Q	1.0	0.25	ug/L			10/18/23 15:56	1
trans-1,2-Dichloroethene	0.34	U Q	1.0	0.34	ug/L			10/18/23 15:56	1
trans-1,3-Dichloropropene	0.23	U Q	1.0	0.23	ug/L			10/18/23 15:56	1
Trichloroethene	0.20	U Q	1.0	0.20	ug/L			10/18/23 15:56	1
Trichlorofluoromethane	0.33	U Q	1.0	0.33	ug/L			10/18/23 15:56	1
Vinyl chloride	**1.0**	**Q**	1.0	0.40	ug/L			10/18/23 15:56	1
Xylenes, Total	0.23	U Q	1.0	0.23	ug/L			10/18/23 15:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 124*		*10/18/23 15:56*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*60 - 124*		*10/19/23 13:09*	*1*

Client Sample ID: LC34-DPT0971-038.0-20231009
Lab Sample ID: 670-28390-12

Date Collected: 10/09/23 13:00
Matrix: Water
Date Received: 10/11/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*10/18/23 15:56*	*1*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*10/19/23 13:09*	*1*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*10/18/23 15:56*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*10/19/23 13:09*	*1*
Toluene-d8 (Surr)	*105*		*70 - 130*		*10/18/23 15:56*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/19/23 13:09*	*1*

Client Sample ID: LC34-DPT0972-008.0-20231009
Lab Sample ID: 670-28390-13

Date Collected: 10/09/23 14:35
Matrix: Water
Date Received: 10/11/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.42	U	2.0	0.42	ug/L			10/20/23 00:29	2
1,1,2,2-Tetrachloroethane	0.80	U	2.0	0.80	ug/L			10/20/23 00:29	2
1,1,2-Trichloro-1,2,2-trifluoroethane	0.46	U	2.0	0.46	ug/L			10/20/23 00:29	2
1,1,2-Trichloroethane	0.64	U	2.0	0.64	ug/L			10/20/23 00:29	2
1,1-Dichloroethane	0.66	U	2.0	0.66	ug/L			10/20/23 00:29	2
1,1-Dichloroethene	0.66	U	2.0	0.66	ug/L			10/20/23 00:29	2
1,2,4-Trichlorobenzene	1.1	U	10	1.1	ug/L			10/20/23 00:29	2
1,2-Dibromo-3-Chloropropane	3.6	U	10	3.6	ug/L			10/20/23 00:29	2
1,2-Dibromoethane (EDB)	0.66	U	2.0	0.66	ug/L			10/20/23 00:29	2
1,2-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/20/23 00:29	2
1,2-Dichloroethane	0.50	U	2.0	0.50	ug/L			10/20/23 00:29	2
1,2-Dichloropropane	0.44	U	2.0	0.44	ug/L			10/20/23 00:29	2
1,3-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/20/23 00:29	2
1,4-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/20/23 00:29	2
2-Butanone (MEK)	13	U	20	13	ug/L			10/20/23 00:29	2
2-Hexanone	6.4	U	20	6.4	ug/L			10/20/23 00:29	2
4-Methyl-2-pentanone	5.4	U	20	5.4	ug/L			10/20/23 00:29	2
Acetone	**23**		20	7.4	ug/L			10/20/23 00:29	2
Benzene	0.54	U	2.0	0.54	ug/L			10/20/23 00:29	2
Bromodichloromethane	0.50	U	2.0	0.50	ug/L			10/20/23 00:29	2
Bromoform	1.2	U	2.0	1.2	ug/L			10/20/23 00:29	2
Bromomethane	7.4	U	10	7.4	ug/L			10/20/23 00:29	2
Carbon disulfide	0.86	U	4.0	0.86	ug/L			10/20/23 00:29	2
Carbon tetrachloride	0.60	U	2.0	0.60	ug/L			10/20/23 00:29	2
Chlorobenzene	0.30	U	2.0	0.30	ug/L			10/20/23 00:29	2
Chloroethane	9.2	U	10	9.2	ug/L			10/20/23 00:29	2
Chloroform	0.54	U	2.0	0.54	ug/L			10/20/23 00:29	2
Chloromethane	1.1	U	2.0	1.1	ug/L			10/20/23 00:29	2
cis-1,2-Dichloroethene	**0.79**	**I**	2.0	0.50	ug/L			10/20/23 00:29	2
cis-1,3-Dichloropropene	0.52	U	2.0	0.52	ug/L			10/20/23 00:29	2
Cyclohexane	0.56	U	2.0	0.56	ug/L			10/20/23 00:29	2
Dibromochloromethane	0.78	U	2.0	0.78	ug/L			10/20/23 00:29	2
Dichlorodifluoromethane	0.72	U	2.0	0.72	ug/L			10/20/23 00:29	2
Ethylbenzene	0.40	U	2.0	0.40	ug/L			10/20/23 00:29	2
Isopropylbenzene	0.52	U	2.0	0.52	ug/L			10/20/23 00:29	2
m,p-Xylenes	0.98	U	2.0	0.98	ug/L			10/20/23 00:29	2

Client Sample ID: LC34-DPT0972-008.0-20231009

Lab Sample ID: 670-28390-13

Date Collected: 10/09/23 14:35

Matrix: Water

Date Received: 10/11/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl acetate	6.4	U	10	6.4	ug/L			10/20/23 00:29	2
Methyl tert-butyl ether	1.6	U	10	1.6	ug/L			10/20/23 00:29	2
Methylene Chloride	6.4	U	10	6.4	ug/L			10/20/23 00:29	2
o-Xylene	0.52	U	2.0	0.52	ug/L			10/20/23 00:29	2
Styrene	0.54	U	2.0	0.54	ug/L			10/20/23 00:29	2
Tetrachloroethene	0.70	U	2.0	0.70	ug/L			10/20/23 00:29	2
Toluene	0.50	U	2.0	0.50	ug/L			10/20/23 00:29	2
trans-1,2-Dichloroethene	0.68	U	2.0	0.68	ug/L			10/20/23 00:29	2
trans-1,3-Dichloropropene	0.46	U	2.0	0.46	ug/L			10/20/23 00:29	2
Trichloroethene	0.40	U	2.0	0.40	ug/L			10/20/23 00:29	2
Trichlorofluoromethane	0.66	U	2.0	0.66	ug/L			10/20/23 00:29	2
Vinyl chloride	0.80	U	2.0	0.80	ug/L			10/20/23 00:29	2
Xylenes, Total	0.46	U	2.0	0.46	ug/L			10/20/23 00:29	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 124*		*10/20/23 00:29*	*2*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*10/20/23 00:29*	*2*
Dibromofluoromethane (Surr)	*105*		*70 - 130*		*10/20/23 00:29*	*2*
Toluene-d8 (Surr)	*105*		*70 - 130*		*10/20/23 00:29*	*2*

Client Sample ID: LC34-DPT0972-013.0-20231009

Lab Sample ID: 670-28390-14

Date Collected: 10/09/23 14:50

Matrix: Water

Date Received: 10/11/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U Q	1.0	0.21	ug/L			10/18/23 16:15	1
1,1,2,2-Tetrachloroethane	0.40	U Q	1.0	0.40	ug/L			10/18/23 16:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U Q	1.0	0.23	ug/L			10/18/23 16:15	1
1,1,2-Trichloroethane	0.32	U Q	1.0	0.32	ug/L			10/18/23 16:15	1
1,1-Dichloroethane	0.33	U Q	1.0	0.33	ug/L			10/18/23 16:15	1
1,1-Dichloroethene	0.33	U Q	1.0	0.33	ug/L			10/18/23 16:15	1
1,2,4-Trichlorobenzene	0.53	U Q	5.0	0.53	ug/L			10/18/23 16:15	1
1,2-Dibromo-3-Chloropropane	1.8	U Q J3	5.0	1.8	ug/L			10/18/23 16:15	1
1,2-Dibromoethane (EDB)	0.33	U Q	1.0	0.33	ug/L			10/18/23 16:15	1
1,2-Dichlorobenzene	0.31	U Q	1.0	0.31	ug/L			10/18/23 16:15	1
1,2-Dichloroethane	0.25	U Q	1.0	0.25	ug/L			10/18/23 16:15	1
1,2-Dichloropropane	0.22	U Q	1.0	0.22	ug/L			10/18/23 16:15	1
1,3-Dichlorobenzene	0.31	U Q	1.0	0.31	ug/L			10/18/23 16:15	1
1,4-Dichlorobenzene	0.31	U Q	1.0	0.31	ug/L			10/18/23 16:15	1
2-Butanone (MEK)	6.4	U Q J3	10	6.4	ug/L			10/18/23 16:15	1
2-Hexanone	3.2	U Q J3	10	3.2	ug/L			10/18/23 16:15	1
4-Methyl-2-pentanone	2.7	U Q J3	10	2.7	ug/L			10/18/23 16:15	1
Acetone	3.7	U Q J3	10	3.7	ug/L			10/18/23 16:15	1
Benzene	0.27	U Q	1.0	0.27	ug/L			10/18/23 16:15	1
Bromodichloromethane	0.25	U Q	1.0	0.25	ug/L			10/18/23 16:15	1
Bromoform	0.59	U Q	1.0	0.59	ug/L			10/18/23 16:15	1
Bromomethane	3.7	U Q	5.0	3.7	ug/L			10/18/23 16:15	1
Carbon disulfide	0.43	U Q	2.0	0.43	ug/L			10/18/23 16:15	1
Carbon tetrachloride	0.30	U Q	1.0	0.30	ug/L			10/18/23 16:15	1

Client: Tetra Tech, Inc.
Job ID: 670-28390-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT0972-013.0-20231009
Lab Sample ID: 670-28390-14
Date Collected: 10/09/23 14:50
Matrix: Water
Date Received: 10/11/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	0.15	U Q	1.0	0.15	ug/L			10/18/23 16:15	1
Chloroethane	4.6	U Q	5.0	4.6	ug/L			10/18/23 16:15	1
Chloroform	0.27	U Q	1.0	0.27	ug/L			10/18/23 16:15	1
Chloromethane	0.54	U Q	1.0	0.54	ug/L			10/18/23 16:15	1
cis-1,2-Dichloroethene	**24**	**Q**	1.0	0.25	ug/L			10/18/23 16:15	1
cis-1,3-Dichloropropene	0.26	U Q	1.0	0.26	ug/L			10/18/23 16:15	1
Cyclohexane	0.28	U Q	1.0	0.28	ug/L			10/18/23 16:15	1
Dibromochloromethane	0.39	U Q	1.0	0.39	ug/L			10/18/23 16:15	1
Dichlorodifluoromethane	0.36	U Q	1.0	0.36	ug/L			10/18/23 16:15	1
Ethylbenzene	0.20	U Q	1.0	0.20	ug/L			10/18/23 16:15	1
Isopropylbenzene	0.26	U Q	1.0	0.26	ug/L			10/18/23 16:15	1
m,p-Xylenes	0.49	U Q	1.0	0.49	ug/L			10/18/23 16:15	1
Methyl acetate	3.2	U Q	5.0	3.2	ug/L			10/18/23 16:15	1
Methyl tert-butyl ether	0.81	U Q	5.0	0.81	ug/L			10/18/23 16:15	1
Methylene Chloride	3.2	U Q	5.0	3.2	ug/L			10/18/23 16:15	1
o-Xylene	0.26	U Q	1.0	0.26	ug/L			10/18/23 16:15	1
Styrene	0.27	U Q	1.0	0.27	ug/L			10/18/23 16:15	1
Tetrachloroethene	0.35	U Q	1.0	0.35	ug/L			10/18/23 16:15	1
Toluene	0.25	U Q	1.0	0.25	ug/L			10/18/23 16:15	1
trans-1,2-Dichloroethene	0.34	U Q	1.0	0.34	ug/L			10/18/23 16:15	1
trans-1,3-Dichloropropene	0.23	U Q	1.0	0.23	ug/L			10/18/23 16:15	1
Trichloroethene	0.20	U Q	1.0	0.20	ug/L			10/18/23 16:15	1
Trichlorofluoromethane	0.33	U Q	1.0	0.33	ug/L			10/18/23 16:15	1
Vinyl chloride	**68**	**Q**	1.0	0.40	ug/L			10/18/23 16:15	1
Xylenes, Total	0.23	U Q	1.0	0.23	ug/L			10/18/23 16:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 124*		*10/18/23 16:15*	*1*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*10/18/23 16:15*	*1*
Dibromofluoromethane (Surr)	*112*		*70 - 130*		*10/18/23 16:15*	*1*
Toluene-d8 (Surr)	*107*		*70 - 130*		*10/18/23 16:15*	*1*

Client Sample ID: LC34-DPT0972-018.0-20231009
Lab Sample ID: 670-28390-15
Date Collected: 10/09/23 15:05
Matrix: Water
Date Received: 10/11/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U Q	1.0	0.21	ug/L			10/18/23 16:34	1
1,1,2,2-Tetrachloroethane	0.40	U Q	1.0	0.40	ug/L			10/18/23 16:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U Q	1.0	0.23	ug/L			10/18/23 16:34	1
1,1,2-Trichloroethane	0.32	U Q	1.0	0.32	ug/L			10/18/23 16:34	1
1,1-Dichloroethane	0.33	U Q	1.0	0.33	ug/L			10/18/23 16:34	1
1,1-Dichloroethene	0.33	U Q	1.0	0.33	ug/L			10/18/23 16:34	1
1,2,4-Trichlorobenzene	0.53	U Q	5.0	0.53	ug/L			10/18/23 16:34	1
1,2-Dibromo-3-Chloropropane	1.8	U Q J3	5.0	1.8	ug/L			10/18/23 16:34	1
1,2-Dibromoethane (EDB)	0.33	U Q	1.0	0.33	ug/L			10/18/23 16:34	1
1,2-Dichlorobenzene	0.31	U Q	1.0	0.31	ug/L			10/18/23 16:34	1
1,2-Dichloroethane	0.25	U Q	1.0	0.25	ug/L			10/18/23 16:34	1
1,2-Dichloropropane	0.22	U Q	1.0	0.22	ug/L			10/18/23 16:34	1

Client: Tetra Tech, Inc.
Job ID: 670-28390-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT0972-018.0-20231009
Lab Sample ID: 670-28390-15
Date Collected: 10/09/23 15:05
Matrix: Water
Date Received: 10/11/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	0.31	U Q	1.0	0.31	ug/L			10/18/23 16:34	1
1,4-Dichlorobenzene	0.31	U Q	1.0	0.31	ug/L			10/18/23 16:34	1
2-Butanone (MEK)	6.4	U Q J3	10	6.4	ug/L			10/18/23 16:34	1
2-Hexanone	3.2	U Q J3	10	3.2	ug/L			10/18/23 16:34	1
4-Methyl-2-pentanone	2.7	U Q J3	10	2.7	ug/L			10/18/23 16:34	1
Acetone	3.7	U Q J3	10	3.7	ug/L			10/18/23 16:34	1
Benzene	0.27	U Q	1.0	0.27	ug/L			10/18/23 16:34	1
Bromodichloromethane	0.25	U Q	1.0	0.25	ug/L			10/18/23 16:34	1
Bromoform	0.59	U Q	1.0	0.59	ug/L			10/18/23 16:34	1
Bromomethane	3.7	U Q	5.0	3.7	ug/L			10/18/23 16:34	1
Carbon disulfide	0.43	U Q	2.0	0.43	ug/L			10/18/23 16:34	1
Carbon tetrachloride	0.30	U Q	1.0	0.30	ug/L			10/18/23 16:34	1
Chlorobenzene	0.15	U Q	1.0	0.15	ug/L			10/18/23 16:34	1
Chloroethane	4.6	U Q	5.0	4.6	ug/L			10/18/23 16:34	1
Chloroform	0.27	U Q	1.0	0.27	ug/L			10/18/23 16:34	1
Chloromethane	0.54	U Q	1.0	0.54	ug/L			10/18/23 16:34	1
cis-1,2-Dichloroethene	**16**	**Q**	1.0	0.25	ug/L			10/18/23 16:34	1
cis-1,3-Dichloropropene	0.26	U Q	1.0	0.26	ug/L			10/18/23 16:34	1
Cyclohexane	0.28	U Q	1.0	0.28	ug/L			10/18/23 16:34	1
Dibromochloromethane	0.39	U Q	1.0	0.39	ug/L			10/18/23 16:34	1
Dichlorodifluoromethane	0.36	U Q	1.0	0.36	ug/L			10/18/23 16:34	1
Ethylbenzene	0.20	U Q	1.0	0.20	ug/L			10/18/23 16:34	1
Isopropylbenzene	0.26	U Q	1.0	0.26	ug/L			10/18/23 16:34	1
m,p-Xylenes	0.49	U Q	1.0	0.49	ug/L			10/18/23 16:34	1
Methyl acetate	3.2	U Q	5.0	3.2	ug/L			10/18/23 16:34	1
Methyl tert-butyl ether	0.81	U Q	5.0	0.81	ug/L			10/18/23 16:34	1
Methylene Chloride	3.2	U Q	5.0	3.2	ug/L			10/18/23 16:34	1
o-Xylene	0.26	U Q	1.0	0.26	ug/L			10/18/23 16:34	1
Styrene	0.27	U Q	1.0	0.27	ug/L			10/18/23 16:34	1
Tetrachloroethene	0.35	U Q	1.0	0.35	ug/L			10/18/23 16:34	1
Toluene	0.25	U Q	1.0	0.25	ug/L			10/18/23 16:34	1
trans-1,2-Dichloroethene	0.34	U Q	1.0	0.34	ug/L			10/18/23 16:34	1
trans-1,3-Dichloropropene	0.23	U Q	1.0	0.23	ug/L			10/18/23 16:34	1
Trichloroethene	0.20	U Q	1.0	0.20	ug/L			10/18/23 16:34	1
Trichlorofluoromethane	0.33	U Q	1.0	0.33	ug/L			10/18/23 16:34	1
Vinyl chloride	**38**	**Q**	1.0	0.40	ug/L			10/18/23 16:34	1
Xylenes, Total	0.23	U Q	1.0	0.23	ug/L			10/18/23 16:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 124*		*10/18/23 16:34*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*10/18/23 16:34*	*1*
Dibromofluoromethane (Surr)	*106*		*70 - 130*		*10/18/23 16:34*	*1*
Toluene-d8 (Surr)	*108*		*70 - 130*		*10/18/23 16:34*	*1*

Client: Tetra Tech, Inc.
Job ID: 670-28390-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT0972-025.0-20231009
Lab Sample ID: 670-28390-16
Date Collected: 10/09/23 15:20
Matrix: Water
Date Received: 10/11/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U Q	1.0	0.21	ug/L			10/18/23 16:53	1
1,1,2,2-Tetrachloroethane	0.40	U Q	1.0	0.40	ug/L			10/18/23 16:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U Q	1.0	0.23	ug/L			10/18/23 16:53	1
1,1,2-Trichloroethane	0.32	U Q	1.0	0.32	ug/L			10/18/23 16:53	1
1,1-Dichloroethane	0.33	U Q	1.0	0.33	ug/L			10/18/23 16:53	1
1,1-Dichloroethene	0.33	U Q	1.0	0.33	ug/L			10/18/23 16:53	1
1,2,4-Trichlorobenzene	0.53	U Q	5.0	0.53	ug/L			10/18/23 16:53	1
1,2-Dibromo-3-Chloropropane	1.8	U Q J3	5.0	1.8	ug/L			10/18/23 16:53	1
1,2-Dibromoethane (EDB)	0.33	U Q	1.0	0.33	ug/L			10/18/23 16:53	1
1,2-Dichlorobenzene	0.31	U Q	1.0	0.31	ug/L			10/18/23 16:53	1
1,2-Dichloroethane	0.25	U Q	1.0	0.25	ug/L			10/18/23 16:53	1
1,2-Dichloropropane	0.22	U Q	1.0	0.22	ug/L			10/18/23 16:53	1
1,3-Dichlorobenzene	0.31	U Q	1.0	0.31	ug/L			10/18/23 16:53	1
1,4-Dichlorobenzene	0.31	U Q	1.0	0.31	ug/L			10/18/23 16:53	1
2-Butanone (MEK)	6.4	U Q J3	10	6.4	ug/L			10/18/23 16:53	1
2-Hexanone	3.2	U Q J3	10	3.2	ug/L			10/18/23 16:53	1
4-Methyl-2-pentanone	2.7	U Q J3	10	2.7	ug/L			10/18/23 16:53	1
Acetone	3.7	U Q J3	10	3.7	ug/L			10/18/23 16:53	1
Benzene	0.27	U Q	1.0	0.27	ug/L			10/18/23 16:53	1
Bromodichloromethane	0.25	U Q	1.0	0.25	ug/L			10/18/23 16:53	1
Bromoform	0.59	U Q	1.0	0.59	ug/L			10/18/23 16:53	1
Bromomethane	3.7	U Q	5.0	3.7	ug/L			10/18/23 16:53	1
Carbon disulfide	0.43	U Q	2.0	0.43	ug/L			10/18/23 16:53	1
Carbon tetrachloride	0.30	U Q	1.0	0.30	ug/L			10/18/23 16:53	1
Chlorobenzene	0.15	U Q	1.0	0.15	ug/L			10/18/23 16:53	1
Chloroethane	4.6	U Q	5.0	4.6	ug/L			10/18/23 16:53	1
Chloroform	0.27	U Q	1.0	0.27	ug/L			10/18/23 16:53	1
Chloromethane	0.54	U Q	1.0	0.54	ug/L			10/18/23 16:53	1
cis-1,2-Dichloroethene	**1.2**	**Q**	1.0	0.25	ug/L			10/18/23 16:53	1
cis-1,3-Dichloropropene	0.26	U Q	1.0	0.26	ug/L			10/18/23 16:53	1
Cyclohexane	0.28	U Q	1.0	0.28	ug/L			10/18/23 16:53	1
Dibromochloromethane	0.39	U Q	1.0	0.39	ug/L			10/18/23 16:53	1
Dichlorodifluoromethane	0.36	U Q	1.0	0.36	ug/L			10/18/23 16:53	1
Ethylbenzene	0.20	U Q	1.0	0.20	ug/L			10/18/23 16:53	1
Isopropylbenzene	0.26	U Q	1.0	0.26	ug/L			10/18/23 16:53	1
m,p-Xylenes	0.49	U Q	1.0	0.49	ug/L			10/18/23 16:53	1
Methyl acetate	3.2	U Q	5.0	3.2	ug/L			10/18/23 16:53	1
Methyl tert-butyl ether	0.81	U Q	5.0	0.81	ug/L			10/18/23 16:53	1
Methylene Chloride	3.2	U Q	5.0	3.2	ug/L			10/18/23 16:53	1
o-Xylene	0.26	U Q	1.0	0.26	ug/L			10/18/23 16:53	1
Styrene	0.27	U Q	1.0	0.27	ug/L			10/18/23 16:53	1
Tetrachloroethene	0.35	U Q	1.0	0.35	ug/L			10/18/23 16:53	1
Toluene	0.25	U Q	1.0	0.25	ug/L			10/18/23 16:53	1
trans-1,2-Dichloroethene	**1.0**	**Q**	1.0	0.34	ug/L			10/18/23 16:53	1
trans-1,3-Dichloropropene	0.23	U Q	1.0	0.23	ug/L			10/18/23 16:53	1
Trichloroethene	0.20	U Q	1.0	0.20	ug/L			10/18/23 16:53	1
Trichlorofluoromethane	0.33	U Q	1.0	0.33	ug/L			10/18/23 16:53	1
Vinyl chloride	**29**	**Q**	1.0	0.40	ug/L			10/18/23 16:53	1
Xylenes, Total	0.23	U Q	1.0	0.23	ug/L			10/18/23 16:53	1

Client Sample ID: LC34-DPT0972-025.0-20231009
Lab Sample ID: 670-28390-16

Date Collected: 10/09/23 15:20
Matrix: Water
Date Received: 10/11/23 08:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 124*		*10/18/23 16:53*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*10/18/23 16:53*	*1*
Dibromofluoromethane (Surr)	*105*		*70 - 130*		*10/18/23 16:53*	*1*
Toluene-d8 (Surr)	*110*		*70 - 130*		*10/18/23 16:53*	*1*

Client Sample ID: LC34-DPT0972-034.0-20231009
Lab Sample ID: 670-28390-17

Date Collected: 10/09/23 15:40
Matrix: Water
Date Received: 10/11/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/19/23 13:20	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/19/23 13:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/19/23 13:20	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/19/23 13:20	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/19/23 13:20	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/19/23 13:20	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/19/23 13:20	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/19/23 13:20	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/19/23 13:20	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/19/23 13:20	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/19/23 13:20	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/19/23 13:20	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/19/23 13:20	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/19/23 13:20	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/19/23 13:20	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/19/23 13:20	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/19/23 13:20	1
Acetone	3.7	U	10	3.7	ug/L			10/19/23 13:20	1
Benzene	0.27	U	1.0	0.27	ug/L			10/19/23 13:20	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/19/23 13:20	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/19/23 13:20	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/19/23 13:20	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/19/23 13:20	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/19/23 13:20	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/19/23 13:20	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/19/23 13:20	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/19/23 13:20	1
Chloromethane	0.54	U J3	1.0	0.54	ug/L			10/19/23 13:20	1
cis-1,2-Dichloroethene	**28**		1.0	0.25	ug/L			10/19/23 13:20	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/19/23 13:20	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/19/23 13:20	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/19/23 13:20	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/19/23 13:20	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/19/23 13:20	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/19/23 13:20	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/19/23 13:20	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/19/23 13:20	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/19/23 13:20	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/19/23 13:20	1

Client Sample ID: LC34-DPT0972-034.0-20231009
Lab Sample ID: 670-28390-17

Date Collected: 10/09/23 15:40
Matrix: Water
Date Received: 10/11/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	0.26	U	1.0	0.26	ug/L			10/19/23 13:20	1
Styrene	0.27	U	1.0	0.27	ug/L			10/19/23 13:20	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/19/23 13:20	1
Toluene	0.25	U	1.0	0.25	ug/L			10/19/23 13:20	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/19/23 13:20	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/19/23 13:20	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/19/23 13:20	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/19/23 13:20	1
Vinyl chloride	**49**		1.0	0.40	ug/L			10/19/23 13:20	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/19/23 13:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 124*		*10/19/23 13:20*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*10/19/23 13:20*	*1*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*10/19/23 13:20*	*1*
Toluene-d8 (Surr)	*117*		*70 - 130*		*10/19/23 13:20*	*1*

Client Sample ID: LC34-DPT0972-038.0-20231009
Lab Sample ID: 670-28390-18

Date Collected: 10/09/23 16:00
Matrix: Water
Date Received: 10/11/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U Q	1.0	0.21	ug/L			10/18/23 17:31	1
1,1,2,2-Tetrachloroethane	0.40	U Q	1.0	0.40	ug/L			10/18/23 17:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U Q	1.0	0.23	ug/L			10/18/23 17:31	1
1,1,2-Trichloroethane	0.32	U Q	1.0	0.32	ug/L			10/18/23 17:31	1
1,1-Dichloroethane	0.33	U Q	1.0	0.33	ug/L			10/18/23 17:31	1
1,1-Dichloroethene	0.33	U Q	1.0	0.33	ug/L			10/18/23 17:31	1
1,2,4-Trichlorobenzene	0.53	U Q	5.0	0.53	ug/L			10/18/23 17:31	1
1,2-Dibromo-3-Chloropropane	1.8	U Q J3	5.0	1.8	ug/L			10/18/23 17:31	1
1,2-Dibromoethane (EDB)	0.33	U Q	1.0	0.33	ug/L			10/18/23 17:31	1
1,2-Dichlorobenzene	0.31	U Q	1.0	0.31	ug/L			10/18/23 17:31	1
1,2-Dichloroethane	0.25	U Q	1.0	0.25	ug/L			10/18/23 17:31	1
1,2-Dichloropropane	0.22	U Q	1.0	0.22	ug/L			10/18/23 17:31	1
1,3-Dichlorobenzene	0.31	U Q	1.0	0.31	ug/L			10/18/23 17:31	1
1,4-Dichlorobenzene	0.31	U Q	1.0	0.31	ug/L			10/18/23 17:31	1
2-Butanone (MEK)	6.4	U Q J3	10	6.4	ug/L			10/18/23 17:31	1
2-Hexanone	3.2	U Q J3	10	3.2	ug/L			10/18/23 17:31	1
4-Methyl-2-pentanone	2.7	U Q J3	10	2.7	ug/L			10/18/23 17:31	1
Acetone	3.7	U Q J3	10	3.7	ug/L			10/18/23 17:31	1
Benzene	0.27	U Q	1.0	0.27	ug/L			10/18/23 17:31	1
Bromodichloromethane	0.25	U Q	1.0	0.25	ug/L			10/18/23 17:31	1
Bromoform	0.59	U Q	1.0	0.59	ug/L			10/18/23 17:31	1
Bromomethane	3.7	U Q	5.0	3.7	ug/L			10/18/23 17:31	1
Carbon disulfide	0.43	U Q	2.0	0.43	ug/L			10/18/23 17:31	1
Carbon tetrachloride	0.30	U Q	1.0	0.30	ug/L			10/18/23 17:31	1
Chlorobenzene	0.15	U Q	1.0	0.15	ug/L			10/18/23 17:31	1
Chloroethane	4.6	U Q	5.0	4.6	ug/L			10/18/23 17:31	1
Chloroform	0.27	U Q	1.0	0.27	ug/L			10/18/23 17:31	1

Client Sample ID: LC34-DPT0972-038.0-20231009
Lab Sample ID: 670-28390-18

Date Collected: 10/09/23 16:00
Matrix: Water
Date Received: 10/11/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	0.54	U Q	1.0	0.54	ug/L			10/18/23 17:31	1
cis-1,2-Dichloroethene	**0.28**	**I Q**	1.0	0.25	ug/L			10/18/23 17:31	1
cis-1,3-Dichloropropene	0.26	U Q	1.0	0.26	ug/L			10/18/23 17:31	1
Cyclohexane	0.28	U Q	1.0	0.28	ug/L			10/18/23 17:31	1
Dibromochloromethane	0.39	U Q	1.0	0.39	ug/L			10/18/23 17:31	1
Dichlorodifluoromethane	0.36	U Q	1.0	0.36	ug/L			10/18/23 17:31	1
Ethylbenzene	0.20	U Q	1.0	0.20	ug/L			10/18/23 17:31	1
Isopropylbenzene	0.26	U Q	1.0	0.26	ug/L			10/18/23 17:31	1
m,p-Xylenes	0.49	U Q	1.0	0.49	ug/L			10/18/23 17:31	1
Methyl acetate	3.2	U Q	5.0	3.2	ug/L			10/18/23 17:31	1
Methyl tert-butyl ether	0.81	U Q	5.0	0.81	ug/L			10/18/23 17:31	1
Methylene Chloride	3.2	U Q	5.0	3.2	ug/L			10/18/23 17:31	1
o-Xylene	0.26	U Q	1.0	0.26	ug/L			10/18/23 17:31	1
Styrene	0.27	U Q	1.0	0.27	ug/L			10/18/23 17:31	1
Tetrachloroethene	0.35	U Q	1.0	0.35	ug/L			10/18/23 17:31	1
Toluene	0.25	U Q	1.0	0.25	ug/L			10/18/23 17:31	1
trans-1,2-Dichloroethene	0.34	U Q	1.0	0.34	ug/L			10/18/23 17:31	1
trans-1,3-Dichloropropene	0.23	U Q	1.0	0.23	ug/L			10/18/23 17:31	1
Trichloroethene	0.20	U Q	1.0	0.20	ug/L			10/18/23 17:31	1
Trichlorofluoromethane	0.33	U Q	1.0	0.33	ug/L			10/18/23 17:31	1
Vinyl chloride	0.40	U Q	1.0	0.40	ug/L			10/18/23 17:31	1
Xylenes, Total	0.23	U Q	1.0	0.23	ug/L			10/18/23 17:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 124*		*10/18/23 17:31*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*10/18/23 17:31*	*1*
Dibromofluoromethane (Surr)	*110*		*70 - 130*		*10/18/23 17:31*	*1*
Toluene-d8 (Surr)	*110*		*70 - 130*		*10/18/23 17:31*	*1*

Client Sample ID: LC34-DPT0973-008.0-20231010
Lab Sample ID: 670-28390-19

Date Collected: 10/10/23 07:35
Matrix: Water
Date Received: 10/11/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/17/23 19:12	1
1,1,2,2-Tetrachloroethane	0.40	U J3	1.0	0.40	ug/L			10/17/23 19:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/17/23 19:12	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/17/23 19:12	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/17/23 19:12	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/17/23 19:12	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/17/23 19:12	1
1,2-Dibromo-3-Chloropropane	1.8	U J3	5.0	1.8	ug/L			10/17/23 19:12	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/17/23 19:12	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 19:12	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/17/23 19:12	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/17/23 19:12	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 19:12	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 19:12	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			10/17/23 19:12	1

Client Sample ID: LC34-DPT0973-008.0-20231010
Lab Sample ID: 670-28390-19

Date Collected: 10/10/23 07:35
Matrix: Water
Date Received: 10/11/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	3.2	U J3	10	3.2	ug/L			10/17/23 19:12	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			10/17/23 19:12	1
Acetone	3.7	U J3	10	3.7	ug/L			10/17/23 19:12	1
Benzene	0.27	U	1.0	0.27	ug/L			10/17/23 19:12	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/17/23 19:12	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/17/23 19:12	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/17/23 19:12	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/17/23 19:12	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/17/23 19:12	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/17/23 19:12	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/17/23 19:12	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/17/23 19:12	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/17/23 19:12	1
cis-1,2-Dichloroethene	**1.1**		1.0	0.25	ug/L			10/17/23 19:12	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/17/23 19:12	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/17/23 19:12	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/17/23 19:12	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/17/23 19:12	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/17/23 19:12	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/17/23 19:12	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/17/23 19:12	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/17/23 19:12	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/17/23 19:12	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/17/23 19:12	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/17/23 19:12	1
Styrene	0.27	U	1.0	0.27	ug/L			10/17/23 19:12	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/17/23 19:12	1
Toluene	0.25	U	1.0	0.25	ug/L			10/17/23 19:12	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/17/23 19:12	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/17/23 19:12	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/17/23 19:12	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/17/23 19:12	1
Vinyl chloride	**2.2**		1.0	0.40	ug/L			10/17/23 19:12	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/17/23 19:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*60 - 124*		*10/17/23 19:12*	*1*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*10/17/23 19:12*	*1*
Dibromofluoromethane (Surr)	*107*		*70 - 130*		*10/17/23 19:12*	*1*
Toluene-d8 (Surr)	*105*		*70 - 130*		*10/17/23 19:12*	*1*

Client Sample ID: LC34-DPT0973-013.0-20231010
Lab Sample ID: 670-28390-20

Date Collected: 10/10/23 07:50
Matrix: Water
Date Received: 10/11/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/17/23 19:31	1
1,1,2,2-Tetrachloroethane	0.40	U J3	1.0	0.40	ug/L			10/17/23 19:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/17/23 19:31	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28390-1

Client Sample ID: LC34-DPT0973-013.0-20231010
Date Collected: 10/10/23 07:50
Date Received: 10/11/23 08:00

Lab Sample ID: 670-28390-20
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/17/23 19:31	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/17/23 19:31	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/17/23 19:31	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/17/23 19:31	1
1,2-Dibromo-3-Chloropropane	1.8	U J3	5.0	1.8	ug/L			10/17/23 19:31	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/17/23 19:31	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 19:31	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/17/23 19:31	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/17/23 19:31	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 19:31	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 19:31	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			10/17/23 19:31	1
2-Hexanone	3.2	U J3	10	3.2	ug/L			10/17/23 19:31	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			10/17/23 19:31	1
Acetone	3.7	U J3	10	3.7	ug/L			10/17/23 19:31	1
Benzene	0.27	U	1.0	0.27	ug/L			10/17/23 19:31	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/17/23 19:31	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/17/23 19:31	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/17/23 19:31	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/17/23 19:31	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/17/23 19:31	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/17/23 19:31	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/17/23 19:31	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/17/23 19:31	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/17/23 19:31	1
cis-1,2-Dichloroethene	**13**		1.0	0.25	ug/L			10/17/23 19:31	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/17/23 19:31	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/17/23 19:31	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/17/23 19:31	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/17/23 19:31	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/17/23 19:31	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/17/23 19:31	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/17/23 19:31	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/17/23 19:31	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/17/23 19:31	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/17/23 19:31	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/17/23 19:31	1
Styrene	0.27	U	1.0	0.27	ug/L			10/17/23 19:31	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/17/23 19:31	1
Toluene	0.25	U	1.0	0.25	ug/L			10/17/23 19:31	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/17/23 19:31	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/17/23 19:31	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/17/23 19:31	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/17/23 19:31	1
Vinyl chloride	**20**		1.0	0.40	ug/L			10/17/23 19:31	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/17/23 19:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*		*10/17/23 19:31*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*10/17/23 19:31*	*1*

Client Sample ID: LC34-DPT0973-013.0-20231010

Lab Sample ID: 670-28390-20

Date Collected: 10/10/23 07:50

Matrix: Water

Date Received: 10/11/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*107*		*70 - 130*		*10/17/23 19:31*	*1*
Toluene-d8 (Surr)	*112*		*70 - 130*		*10/17/23 19:31*	*1*

Client Sample ID: LC34-DPT0973-018.0-20231010

Lab Sample ID: 670-28390-21

Date Collected: 10/10/23 08:10

Matrix: Water

Date Received: 10/11/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/17/23 19:50	1
1,1,2,2-Tetrachloroethane	0.40	U J3	1.0	0.40	ug/L			10/17/23 19:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/17/23 19:50	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/17/23 19:50	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/17/23 19:50	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/17/23 19:50	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/17/23 19:50	1
1,2-Dibromo-3-Chloropropane	1.8	U J3	5.0	1.8	ug/L			10/17/23 19:50	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/17/23 19:50	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 19:50	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/17/23 19:50	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/17/23 19:50	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 19:50	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 19:50	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			10/17/23 19:50	1
2-Hexanone	3.2	U J3	10	3.2	ug/L			10/17/23 19:50	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			10/17/23 19:50	1
Acetone	3.7	U J3	10	3.7	ug/L			10/17/23 19:50	1
Benzene	0.27	U	1.0	0.27	ug/L			10/17/23 19:50	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/17/23 19:50	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/17/23 19:50	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/17/23 19:50	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/17/23 19:50	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/17/23 19:50	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/17/23 19:50	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/17/23 19:50	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/17/23 19:50	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/17/23 19:50	1
cis-1,2-Dichloroethene	**200**		1.0	0.25	ug/L			10/17/23 19:50	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/17/23 19:50	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/17/23 19:50	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/17/23 19:50	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/17/23 19:50	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/17/23 19:50	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/17/23 19:50	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/17/23 19:50	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/17/23 19:50	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/17/23 19:50	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/17/23 19:50	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/17/23 19:50	1

Client Sample ID: LC34-DPT0973-018.0-20231010

Lab Sample ID: 670-28390-21

Date Collected: 10/10/23 08:10

Matrix: Water

Date Received: 10/11/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.27	U	1.0	0.27	ug/L			10/17/23 19:50	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/17/23 19:50	1
Toluene	0.25	U	1.0	0.25	ug/L			10/17/23 19:50	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/17/23 19:50	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/17/23 19:50	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/17/23 19:50	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/17/23 19:50	1
Vinyl chloride	72		1.0	0.40	ug/L			10/17/23 19:50	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/17/23 19:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*60 - 124*		*10/17/23 19:50*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*10/17/23 19:50*	*1*
Dibromofluoromethane (Surr)	*108*		*70 - 130*		*10/17/23 19:50*	*1*
Toluene-d8 (Surr)	*109*		*70 - 130*		*10/17/23 19:50*	*1*

Client Sample ID: LC34-DPT0973-025.0-20231010

Lab Sample ID: 670-28390-22

Date Collected: 10/10/23 08:25

Matrix: Water

Date Received: 10/11/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/17/23 20:09	1
1,1,2,2-Tetrachloroethane	0.40	U J3	1.0	0.40	ug/L			10/17/23 20:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/17/23 20:09	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/17/23 20:09	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/17/23 20:09	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/17/23 20:09	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/17/23 20:09	1
1,2-Dibromo-3-Chloropropane	1.8	U J3	5.0	1.8	ug/L			10/17/23 20:09	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/17/23 20:09	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 20:09	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/17/23 20:09	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/17/23 20:09	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 20:09	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 20:09	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			10/17/23 20:09	1
2-Hexanone	3.2	U J3	10	3.2	ug/L			10/17/23 20:09	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			10/17/23 20:09	1
Acetone	3.7	U J3	10	3.7	ug/L			10/17/23 20:09	1
Benzene	0.27	U	1.0	0.27	ug/L			10/17/23 20:09	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/17/23 20:09	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/17/23 20:09	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/17/23 20:09	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/17/23 20:09	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/17/23 20:09	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/17/23 20:09	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/17/23 20:09	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/17/23 20:09	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/17/23 20:09	1

Client Sample ID: LC34-DPT0973-025.0-20231010
Lab Sample ID: 670-28390-22

Date Collected: 10/10/23 08:25
Matrix: Water
Date Received: 10/11/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**66**		1.0	0.25	ug/L			10/17/23 20:09	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/17/23 20:09	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/17/23 20:09	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/17/23 20:09	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/17/23 20:09	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/17/23 20:09	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/17/23 20:09	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/17/23 20:09	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/17/23 20:09	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/17/23 20:09	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/17/23 20:09	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/17/23 20:09	1
Styrene	0.27	U	1.0	0.27	ug/L			10/17/23 20:09	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/17/23 20:09	1
Toluene	0.25	U	1.0	0.25	ug/L			10/17/23 20:09	1
trans-1,2-Dichloroethene	**1.8**		1.0	0.34	ug/L			10/17/23 20:09	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/17/23 20:09	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/17/23 20:09	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/17/23 20:09	1
Vinyl chloride	**31**		1.0	0.40	ug/L			10/17/23 20:09	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/17/23 20:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 124*		*10/17/23 20:09*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/17/23 20:09*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*10/17/23 20:09*	*1*
Toluene-d8 (Surr)	*109*		*70 - 130*		*10/17/23 20:09*	*1*

Client Sample ID: LC34-DPT0973-034.0-20231010
Lab Sample ID: 670-28390-23

Date Collected: 10/10/23 08:40
Matrix: Water
Date Received: 10/11/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/17/23 19:15	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/17/23 19:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/17/23 19:15	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/17/23 19:15	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/17/23 19:15	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/17/23 19:15	1
1,2,4-Trichlorobenzene	0.53	U J3	5.0	0.53	ug/L			10/17/23 19:15	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/17/23 19:15	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/17/23 19:15	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 19:15	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/17/23 19:15	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/17/23 19:15	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 19:15	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 19:15	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/17/23 19:15	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/17/23 19:15	1

Client Sample ID: LC34-DPT0973-034.0-20231010
Lab Sample ID: 670-28390-23

Date Collected: 10/10/23 08:40
Matrix: Water
Date Received: 10/11/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/17/23 19:15	1
Acetone	3.7	U	10	3.7	ug/L			10/17/23 19:15	1
Benzene	0.27	U	1.0	0.27	ug/L			10/17/23 19:15	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/17/23 19:15	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/17/23 19:15	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/17/23 19:15	1
Carbon disulfide	**0.98**	**I**	2.0	0.43	ug/L			10/17/23 19:15	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/17/23 19:15	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/17/23 19:15	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/17/23 19:15	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/17/23 19:15	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/17/23 19:15	1
cis-1,2-Dichloroethene	**5.9**		1.0	0.25	ug/L			10/17/23 19:15	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/17/23 19:15	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/17/23 19:15	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/17/23 19:15	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/17/23 19:15	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/17/23 19:15	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/17/23 19:15	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/17/23 19:15	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/17/23 19:15	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/17/23 19:15	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/17/23 19:15	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/17/23 19:15	1
Styrene	0.27	U	1.0	0.27	ug/L			10/17/23 19:15	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/17/23 19:15	1
Toluene	0.25	U	1.0	0.25	ug/L			10/17/23 19:15	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/17/23 19:15	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/17/23 19:15	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/17/23 19:15	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/17/23 19:15	1
Vinyl chloride	**6.5**		1.0	0.40	ug/L			10/17/23 19:15	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/17/23 19:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*85*		*60 - 124*		*10/17/23 19:15*	*1*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*		*10/17/23 19:15*	*1*
Dibromofluoromethane (Surr)	*89*		*70 - 130*		*10/17/23 19:15*	*1*
Toluene-d8 (Surr)	*114*		*70 - 130*		*10/17/23 19:15*	*1*

Client Sample ID: LC34-DPT0973-038.0-20231010
Lab Sample ID: 670-28390-24

Date Collected: 10/10/23 09:00
Matrix: Water
Date Received: 10/11/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/17/23 19:35	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/17/23 19:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/17/23 19:35	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/17/23 19:35	1

Client Sample ID: LC34-DPT0973-038.0-20231010
Lab Sample ID: 670-28390-24
Date Collected: 10/10/23 09:00
Matrix: Water
Date Received: 10/11/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/17/23 19:35	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/17/23 19:35	1
1,2,4-Trichlorobenzene	0.53	U J3	5.0	0.53	ug/L			10/17/23 19:35	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/17/23 19:35	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/17/23 19:35	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 19:35	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/17/23 19:35	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/17/23 19:35	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 19:35	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 19:35	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/17/23 19:35	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/17/23 19:35	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/17/23 19:35	1
Acetone	3.7	U	10	3.7	ug/L			10/17/23 19:35	1
Benzene	0.27	U	1.0	0.27	ug/L			10/17/23 19:35	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/17/23 19:35	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/17/23 19:35	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/17/23 19:35	1
Carbon disulfide	**0.95**	**I**	2.0	0.43	ug/L			10/17/23 19:35	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/17/23 19:35	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/17/23 19:35	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/17/23 19:35	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/17/23 19:35	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/17/23 19:35	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/17/23 19:35	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/17/23 19:35	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/17/23 19:35	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/17/23 19:35	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/17/23 19:35	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/17/23 19:35	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/17/23 19:35	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/17/23 19:35	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/17/23 19:35	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/17/23 19:35	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/17/23 19:35	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/17/23 19:35	1
Styrene	0.27	U	1.0	0.27	ug/L			10/17/23 19:35	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/17/23 19:35	1
Toluene	0.25	U	1.0	0.25	ug/L			10/17/23 19:35	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/17/23 19:35	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/17/23 19:35	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/17/23 19:35	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/17/23 19:35	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/17/23 19:35	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/17/23 19:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*84*		*60 - 124*		*10/17/23 19:35*	*1*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*10/17/23 19:35*	*1*
Dibromofluoromethane (Surr)	*90*		*70 - 130*		*10/17/23 19:35*	*1*

Client Sample ID: LC34-DPT0973-038.0-20231010
Lab Sample ID: 670-28390-24

Date Collected: 10/10/23 09:00
Matrix: Water
Date Received: 10/11/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	113		70 - 130		10/17/23 19:35	1

Client Sample ID: LC34-DPT0974-008.0-20231010
Lab Sample ID: 670-28390-25

Date Collected: 10/10/23 09:35
Matrix: Water
Date Received: 10/11/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/17/23 19:54	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/17/23 19:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/17/23 19:54	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/17/23 19:54	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/17/23 19:54	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/17/23 19:54	1
1,2,4-Trichlorobenzene	0.53	U J3	5.0	0.53	ug/L			10/17/23 19:54	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/17/23 19:54	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/17/23 19:54	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 19:54	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/17/23 19:54	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/17/23 19:54	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 19:54	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 19:54	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/17/23 19:54	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/17/23 19:54	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/17/23 19:54	1
Acetone	3.7	U	10	3.7	ug/L			10/17/23 19:54	1
Benzene	0.27	U	1.0	0.27	ug/L			10/17/23 19:54	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/17/23 19:54	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/17/23 19:54	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/17/23 19:54	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/17/23 19:54	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/17/23 19:54	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/17/23 19:54	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/17/23 19:54	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/17/23 19:54	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/17/23 19:54	1
cis-1,2-Dichloroethene	**2.0**		1.0	0.25	ug/L			10/17/23 19:54	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/17/23 19:54	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/17/23 19:54	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/17/23 19:54	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/17/23 19:54	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/17/23 19:54	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/17/23 19:54	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/17/23 19:54	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/17/23 19:54	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/17/23 19:54	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/17/23 19:54	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/17/23 19:54	1
Styrene	0.27	U	1.0	0.27	ug/L			10/17/23 19:54	1

Client Sample ID: LC34-DPT0974-008.0-20231010
Lab Sample ID: 670-28390-25

Date Collected: 10/10/23 09:35
Matrix: Water
Date Received: 10/11/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/17/23 19:54	1
Toluene	0.25	U	1.0	0.25	ug/L			10/17/23 19:54	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/17/23 19:54	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/17/23 19:54	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/17/23 19:54	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/17/23 19:54	1
Vinyl chloride	**5.3**		1.0	0.40	ug/L			10/17/23 19:54	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/17/23 19:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*60 - 124*		*10/17/23 19:54*	*1*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*		*10/17/23 19:54*	*1*
Dibromofluoromethane (Surr)	*91*		*70 - 130*		*10/17/23 19:54*	*1*
Toluene-d8 (Surr)	*114*		*70 - 130*		*10/17/23 19:54*	*1*

Client Sample ID: LC34-DPT0974-013.0-20231010
Lab Sample ID: 670-28390-26

Date Collected: 10/10/23 09:45
Matrix: Water
Date Received: 10/11/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/17/23 15:21	1
1,1,2,2-Tetrachloroethane	0.40	U J3	1.0	0.40	ug/L			10/17/23 15:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/17/23 15:21	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/17/23 15:21	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/17/23 15:21	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/17/23 15:21	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/17/23 15:21	1
1,2-Dibromo-3-Chloropropane	1.8	U J3	5.0	1.8	ug/L			10/17/23 15:21	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/17/23 15:21	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 15:21	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/17/23 15:21	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/17/23 15:21	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 15:21	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 15:21	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			10/17/23 15:21	1
2-Hexanone	3.2	U J3	10	3.2	ug/L			10/17/23 15:21	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			10/17/23 15:21	1
Acetone	3.7	U J3	10	3.7	ug/L			10/17/23 15:21	1
Benzene	0.27	U	1.0	0.27	ug/L			10/17/23 15:21	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/17/23 15:21	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/17/23 15:21	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/17/23 15:21	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/17/23 15:21	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/17/23 15:21	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/17/23 15:21	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/17/23 15:21	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/17/23 15:21	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/17/23 15:21	1
cis-1,2-Dichloroethene	**16**		1.0	0.25	ug/L			10/17/23 15:21	1

Client Sample ID: LC34-DPT0974-013.0-20231010
Lab Sample ID: 670-28390-26

Date Collected: 10/10/23 09:45
Matrix: Water
Date Received: 10/11/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/17/23 15:21	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/17/23 15:21	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/17/23 15:21	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/17/23 15:21	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/17/23 15:21	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/17/23 15:21	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/17/23 15:21	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/17/23 15:21	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/17/23 15:21	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/17/23 15:21	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/17/23 15:21	1
Styrene	0.27	U	1.0	0.27	ug/L			10/17/23 15:21	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/17/23 15:21	1
Toluene	0.25	U	1.0	0.25	ug/L			10/17/23 15:21	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/17/23 15:21	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/17/23 15:21	1
Trichloroethene	**0.23**	**I**	1.0	0.20	ug/L			10/17/23 15:21	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/17/23 15:21	1
Vinyl chloride	**25**		1.0	0.40	ug/L			10/17/23 15:21	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/17/23 15:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*60 - 124*		*10/17/23 15:21*	*1*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*10/17/23 15:21*	*1*
Dibromofluoromethane (Surr)	*106*		*70 - 130*		*10/17/23 15:21*	*1*
Toluene-d8 (Surr)	*109*		*70 - 130*		*10/17/23 15:21*	*1*

Client Sample ID: LC34-DPT0974-018.0-20231010
Lab Sample ID: 670-28390-27

Date Collected: 10/10/23 10:00
Matrix: Water
Date Received: 10/11/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/17/23 15:40	1
1,1,2,2-Tetrachloroethane	0.40	U J3	1.0	0.40	ug/L			10/17/23 15:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/17/23 15:40	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/17/23 15:40	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/17/23 15:40	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/17/23 15:40	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/17/23 15:40	1
1,2-Dibromo-3-Chloropropane	1.8	U J3	5.0	1.8	ug/L			10/17/23 15:40	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/17/23 15:40	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 15:40	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/17/23 15:40	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/17/23 15:40	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 15:40	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 15:40	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			10/17/23 15:40	1
2-Hexanone	3.2	U J3	10	3.2	ug/L			10/17/23 15:40	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			10/17/23 15:40	1

Client Sample ID: LC34-DPT0974-018.0-20231010
Lab Sample ID: 670-28390-27
Date Collected: 10/10/23 10:00
Matrix: Water
Date Received: 10/11/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	3.7	U J3	10	3.7	ug/L			10/17/23 15:40	1
Benzene	0.27	U	1.0	0.27	ug/L			10/17/23 15:40	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/17/23 15:40	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/17/23 15:40	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/17/23 15:40	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/17/23 15:40	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/17/23 15:40	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/17/23 15:40	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/17/23 15:40	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/17/23 15:40	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/17/23 15:40	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/17/23 15:40	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/17/23 15:40	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/17/23 15:40	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/17/23 15:40	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/17/23 15:40	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/17/23 15:40	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/17/23 15:40	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/17/23 15:40	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/17/23 15:40	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/17/23 15:40	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/17/23 15:40	1
Styrene	0.27	U	1.0	0.27	ug/L			10/17/23 15:40	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/17/23 15:40	1
Toluene	0.25	U	1.0	0.25	ug/L			10/17/23 15:40	1
trans-1,2-Dichloroethene	**0.38**	**I**	1.0	0.34	ug/L			10/17/23 15:40	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/17/23 15:40	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/17/23 15:40	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/17/23 15:40	1
Vinyl chloride	**82**		1.0	0.40	ug/L			10/17/23 15:40	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/17/23 15:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 124*		*10/17/23 15:40*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*10/17/23 15:40*	*1*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*10/17/23 15:40*	*1*
Toluene-d8 (Surr)	*113*		*70 - 130*		*10/17/23 15:40*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**290**		2.0	0.50	ug/L			10/17/23 18:15	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 124*		*10/17/23 18:15*	*2*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*10/17/23 18:15*	*2*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*10/17/23 18:15*	*2*
Toluene-d8 (Surr)	*112*		*70 - 130*		*10/17/23 18:15*	*2*

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28390-1

Client Sample ID: LC34-DPT0974-025.0-20231010
Date Collected: 10/10/23 10:15
Date Received: 10/11/23 08:00

Lab Sample ID: 670-28390-28
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/17/23 15:59	1
1,1,2,2-Tetrachloroethane	0.40	U J3	1.0	0.40	ug/L			10/17/23 15:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/17/23 15:59	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/17/23 15:59	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/17/23 15:59	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/17/23 15:59	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/17/23 15:59	1
1,2-Dibromo-3-Chloropropane	1.8	U J3	5.0	1.8	ug/L			10/17/23 15:59	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/17/23 15:59	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 15:59	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/17/23 15:59	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/17/23 15:59	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 15:59	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 15:59	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			10/17/23 15:59	1
2-Hexanone	3.2	U J3	10	3.2	ug/L			10/17/23 15:59	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			10/17/23 15:59	1
Acetone	3.7	U J3	10	3.7	ug/L			10/17/23 15:59	1
Benzene	0.27	U	1.0	0.27	ug/L			10/17/23 15:59	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/17/23 15:59	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/17/23 15:59	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/17/23 15:59	1
Carbon disulfide	**1.3**	**I**	2.0	0.43	ug/L			10/17/23 15:59	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/17/23 15:59	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/17/23 15:59	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/17/23 15:59	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/17/23 15:59	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/17/23 15:59	1
cis-1,2-Dichloroethene	**1.8**		1.0	0.25	ug/L			10/17/23 15:59	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/17/23 15:59	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/17/23 15:59	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/17/23 15:59	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/17/23 15:59	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/17/23 15:59	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/17/23 15:59	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/17/23 15:59	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/17/23 15:59	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/17/23 15:59	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/17/23 15:59	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/17/23 15:59	1
Styrene	0.27	U	1.0	0.27	ug/L			10/17/23 15:59	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/17/23 15:59	1
Toluene	0.25	U	1.0	0.25	ug/L			10/17/23 15:59	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/17/23 15:59	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/17/23 15:59	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/17/23 15:59	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/17/23 15:59	1
Vinyl chloride	**2.7**		1.0	0.40	ug/L			10/17/23 15:59	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/17/23 15:59	1

Client Sample ID: LC34-DPT0974-025.0-20231010
Lab Sample ID: 670-28390-28

Date Collected: 10/10/23 10:15
Matrix: Water
Date Received: 10/11/23 08:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*96*		*60 - 124*		*10/17/23 15:59*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*10/17/23 15:59*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*10/17/23 15:59*	*1*
Toluene-d8 (Surr)	*109*		*70 - 130*		*10/17/23 15:59*	*1*

Client Sample ID: LC34-DPT0974-034.0-20231010
Lab Sample ID: 670-28390-29

Date Collected: 10/10/23 10:30
Matrix: Water
Date Received: 10/11/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/17/23 16:18	1
1,1,2,2-Tetrachloroethane	0.40	U J3	1.0	0.40	ug/L			10/17/23 16:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/17/23 16:18	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/17/23 16:18	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/17/23 16:18	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/17/23 16:18	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/17/23 16:18	1
1,2-Dibromo-3-Chloropropane	1.8	U J3	5.0	1.8	ug/L			10/17/23 16:18	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/17/23 16:18	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 16:18	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/17/23 16:18	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/17/23 16:18	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 16:18	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 16:18	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			10/17/23 16:18	1
2-Hexanone	3.2	U J3	10	3.2	ug/L			10/17/23 16:18	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			10/17/23 16:18	1
Acetone	3.7	U J3	10	3.7	ug/L			10/17/23 16:18	1
Benzene	0.27	U	1.0	0.27	ug/L			10/17/23 16:18	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/17/23 16:18	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/17/23 16:18	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/17/23 16:18	1
Carbon disulfide	**0.73**	**I**	2.0	0.43	ug/L			10/17/23 16:18	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/17/23 16:18	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/17/23 16:18	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/17/23 16:18	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/17/23 16:18	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/17/23 16:18	1
cis-1,2-Dichloroethene	**3.5**		1.0	0.25	ug/L			10/17/23 16:18	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/17/23 16:18	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/17/23 16:18	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/17/23 16:18	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/17/23 16:18	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/17/23 16:18	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/17/23 16:18	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/17/23 16:18	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/17/23 16:18	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/17/23 16:18	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/17/23 16:18	1

Client Sample ID: LC34-DPT0974-034.0-20231010
Lab Sample ID: 670-28390-29

Date Collected: 10/10/23 10:30
Matrix: Water
Date Received: 10/11/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	0.26	U	1.0	0.26	ug/L			10/17/23 16:18	1
Styrene	0.27	U	1.0	0.27	ug/L			10/17/23 16:18	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/17/23 16:18	1
Toluene	0.25	U	1.0	0.25	ug/L			10/17/23 16:18	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/17/23 16:18	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/17/23 16:18	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/17/23 16:18	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/17/23 16:18	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/17/23 16:18	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/17/23 16:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*		*10/17/23 16:18*	*1*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*10/17/23 16:18*	*1*
Dibromofluoromethane (Surr)	*107*		*70 - 130*		*10/17/23 16:18*	*1*
Toluene-d8 (Surr)	*106*		*70 - 130*		*10/17/23 16:18*	*1*

Client Sample ID: LC34-DPT0974-038.0-20231010
Lab Sample ID: 670-28390-30

Date Collected: 10/10/23 10:50
Matrix: Water
Date Received: 10/11/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/17/23 16:37	1
1,1,2,2-Tetrachloroethane	0.40	U J3	1.0	0.40	ug/L			10/17/23 16:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/17/23 16:37	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/17/23 16:37	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/17/23 16:37	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/17/23 16:37	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/17/23 16:37	1
1,2-Dibromo-3-Chloropropane	1.8	U J3	5.0	1.8	ug/L			10/17/23 16:37	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/17/23 16:37	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 16:37	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/17/23 16:37	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/17/23 16:37	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 16:37	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 16:37	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			10/17/23 16:37	1
2-Hexanone	3.2	U J3	10	3.2	ug/L			10/17/23 16:37	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			10/17/23 16:37	1
Acetone	3.7	U J3	10	3.7	ug/L			10/17/23 16:37	1
Benzene	0.27	U	1.0	0.27	ug/L			10/17/23 16:37	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/17/23 16:37	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/17/23 16:37	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/17/23 16:37	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/17/23 16:37	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/17/23 16:37	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/17/23 16:37	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/17/23 16:37	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/17/23 16:37	1

Client Sample ID: LC34-DPT0974-038.0-20231010
Lab Sample ID: 670-28390-30

Date Collected: 10/10/23 10:50
Matrix: Water
Date Received: 10/11/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	0.54	U	1.0	0.54	ug/L			10/17/23 16:37	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/17/23 16:37	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/17/23 16:37	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/17/23 16:37	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/17/23 16:37	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/17/23 16:37	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/17/23 16:37	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/17/23 16:37	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/17/23 16:37	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/17/23 16:37	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/17/23 16:37	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/17/23 16:37	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/17/23 16:37	1
Styrene	0.27	U	1.0	0.27	ug/L			10/17/23 16:37	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/17/23 16:37	1
Toluene	0.25	U	1.0	0.25	ug/L			10/17/23 16:37	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/17/23 16:37	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/17/23 16:37	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/17/23 16:37	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/17/23 16:37	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/17/23 16:37	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/17/23 16:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 124*		*10/17/23 16:37*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*10/17/23 16:37*	*1*
Dibromofluoromethane (Surr)	*106*		*70 - 130*		*10/17/23 16:37*	*1*
Toluene-d8 (Surr)	*112*		*70 - 130*		*10/17/23 16:37*	*1*

Client Sample ID: LC34-DPT0975-008.0-20231010
Lab Sample ID: 670-28390-31

Date Collected: 10/10/23 11:25
Matrix: Water
Date Received: 10/11/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/17/23 16:56	1
1,1,2,2-Tetrachloroethane	0.40	U J3	1.0	0.40	ug/L			10/17/23 16:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/17/23 16:56	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/17/23 16:56	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/17/23 16:56	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/17/23 16:56	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/17/23 16:56	1
1,2-Dibromo-3-Chloropropane	1.8	U J3	5.0	1.8	ug/L			10/17/23 16:56	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/17/23 16:56	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 16:56	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/17/23 16:56	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/17/23 16:56	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 16:56	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 16:56	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			10/17/23 16:56	1

Client Sample ID: LC34-DPT0975-008.0-20231010
Lab Sample ID: 670-28390-31

Date Collected: 10/10/23 11:25
Matrix: Water
Date Received: 10/11/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	3.2	U J3	10	3.2	ug/L			10/17/23 16:56	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			10/17/23 16:56	1
Acetone	3.7	U J3	10	3.7	ug/L			10/17/23 16:56	1
Benzene	0.27	U	1.0	0.27	ug/L			10/17/23 16:56	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/17/23 16:56	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/17/23 16:56	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/17/23 16:56	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/17/23 16:56	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/17/23 16:56	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/17/23 16:56	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/17/23 16:56	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/17/23 16:56	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/17/23 16:56	1
cis-1,2-Dichloroethene	**14**		1.0	0.25	ug/L			10/17/23 16:56	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/17/23 16:56	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/17/23 16:56	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/17/23 16:56	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/17/23 16:56	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/17/23 16:56	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/17/23 16:56	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/17/23 16:56	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/17/23 16:56	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/17/23 16:56	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/17/23 16:56	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/17/23 16:56	1
Styrene	0.27	U	1.0	0.27	ug/L			10/17/23 16:56	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/17/23 16:56	1
Toluene	0.25	U	1.0	0.25	ug/L			10/17/23 16:56	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/17/23 16:56	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/17/23 16:56	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/17/23 16:56	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/17/23 16:56	1
Vinyl chloride	**21**		1.0	0.40	ug/L			10/17/23 16:56	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/17/23 16:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 124*		*10/17/23 16:56*	*1*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*10/17/23 16:56*	*1*
Dibromofluoromethane (Surr)	*106*		*70 - 130*		*10/17/23 16:56*	*1*
Toluene-d8 (Surr)	*111*		*70 - 130*		*10/17/23 16:56*	*1*

Client Sample ID: LC34-DPT0975-013.0-20231010
Lab Sample ID: 670-28390-32

Date Collected: 10/10/23 11:35
Matrix: Water
Date Received: 10/11/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/17/23 17:15	1
1,1,2,2-Tetrachloroethane	0.40	U J3	1.0	0.40	ug/L			10/17/23 17:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/17/23 17:15	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28390-1

Client Sample ID: LC34-DPT0975-013.0-20231010
Date Collected: 10/10/23 11:35
Date Received: 10/11/23 08:00

Lab Sample ID: 670-28390-32
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/17/23 17:15	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/17/23 17:15	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/17/23 17:15	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/17/23 17:15	1
1,2-Dibromo-3-Chloropropane	1.8	U J3	5.0	1.8	ug/L			10/17/23 17:15	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/17/23 17:15	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 17:15	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/17/23 17:15	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/17/23 17:15	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 17:15	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 17:15	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			10/17/23 17:15	1
2-Hexanone	3.2	U J3	10	3.2	ug/L			10/17/23 17:15	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			10/17/23 17:15	1
Acetone	3.7	U J3	10	3.7	ug/L			10/17/23 17:15	1
Benzene	0.27	U	1.0	0.27	ug/L			10/17/23 17:15	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/17/23 17:15	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/17/23 17:15	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/17/23 17:15	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/17/23 17:15	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/17/23 17:15	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/17/23 17:15	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/17/23 17:15	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/17/23 17:15	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/17/23 17:15	1
cis-1,2-Dichloroethene	**31**		1.0	0.25	ug/L			10/17/23 17:15	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/17/23 17:15	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/17/23 17:15	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/17/23 17:15	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/17/23 17:15	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/17/23 17:15	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/17/23 17:15	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/17/23 17:15	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/17/23 17:15	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/17/23 17:15	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/17/23 17:15	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/17/23 17:15	1
Styrene	0.27	U	1.0	0.27	ug/L			10/17/23 17:15	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/17/23 17:15	1
Toluene	0.25	U	1.0	0.25	ug/L			10/17/23 17:15	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/17/23 17:15	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/17/23 17:15	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/17/23 17:15	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/17/23 17:15	1
Vinyl chloride	**43**		1.0	0.40	ug/L			10/17/23 17:15	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/17/23 17:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*		*10/17/23 17:15*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/17/23 17:15*	*1*

Client Sample ID: LC34-DPT0975-013.0-20231010
Lab Sample ID: 670-28390-32

Date Collected: 10/10/23 11:35
Matrix: Water
Date Received: 10/11/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*107*		*70 - 130*		*10/17/23 17:15*	*1*
Toluene-d8 (Surr)	*110*		*70 - 130*		*10/17/23 17:15*	*1*

Client Sample ID: LC34-DPT0975-018.0-20231010
Lab Sample ID: 670-28390-33

Date Collected: 10/10/23 11:50
Matrix: Water
Date Received: 10/11/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/17/23 17:34	1
1,1,2,2-Tetrachloroethane	0.40	U J3	1.0	0.40	ug/L			10/17/23 17:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/17/23 17:34	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/17/23 17:34	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/17/23 17:34	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/17/23 17:34	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/17/23 17:34	1
1,2-Dibromo-3-Chloropropane	1.8	U J3	5.0	1.8	ug/L			10/17/23 17:34	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/17/23 17:34	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 17:34	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/17/23 17:34	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/17/23 17:34	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 17:34	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 17:34	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			10/17/23 17:34	1
2-Hexanone	3.2	U J3	10	3.2	ug/L			10/17/23 17:34	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			10/17/23 17:34	1
Acetone	3.7	U J3	10	3.7	ug/L			10/17/23 17:34	1
Benzene	0.27	U	1.0	0.27	ug/L			10/17/23 17:34	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/17/23 17:34	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/17/23 17:34	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/17/23 17:34	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/17/23 17:34	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/17/23 17:34	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/17/23 17:34	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/17/23 17:34	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/17/23 17:34	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/17/23 17:34	1
cis-1,2-Dichloroethene	**4.3**		1.0	0.25	ug/L			10/17/23 17:34	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/17/23 17:34	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/17/23 17:34	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/17/23 17:34	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/17/23 17:34	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/17/23 17:34	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/17/23 17:34	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/17/23 17:34	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/17/23 17:34	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/17/23 17:34	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/17/23 17:34	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/17/23 17:34	1

Client Sample ID: LC34-DPT0975-018.0-20231010

Lab Sample ID: 670-28390-33

Date Collected: 10/10/23 11:50

Matrix: Water

Date Received: 10/11/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.27	U	1.0	0.27	ug/L			10/17/23 17:34	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/17/23 17:34	1
Toluene	0.25	U	1.0	0.25	ug/L			10/17/23 17:34	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/17/23 17:34	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/17/23 17:34	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/17/23 17:34	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/17/23 17:34	1
Vinyl chloride	**8.2**		1.0	0.40	ug/L			10/17/23 17:34	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/17/23 17:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*		*10/17/23 17:34*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*10/17/23 17:34*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*10/17/23 17:34*	*1*
Toluene-d8 (Surr)	*114*		*70 - 130*		*10/17/23 17:34*	*1*

Client Sample ID: LC34-DPT0975-025.0-20231010

Lab Sample ID: 670-28390-34

Date Collected: 10/10/23 12:05

Matrix: Water

Date Received: 10/11/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/17/23 17:53	1
1,1,2,2-Tetrachloroethane	0.40	U J3	1.0	0.40	ug/L			10/17/23 17:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/17/23 17:53	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/17/23 17:53	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/17/23 17:53	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/17/23 17:53	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/17/23 17:53	1
1,2-Dibromo-3-Chloropropane	1.8	U J3	5.0	1.8	ug/L			10/17/23 17:53	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/17/23 17:53	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 17:53	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/17/23 17:53	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/17/23 17:53	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 17:53	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 17:53	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			10/17/23 17:53	1
2-Hexanone	3.2	U J3	10	3.2	ug/L			10/17/23 17:53	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			10/17/23 17:53	1
Acetone	3.7	U J3	10	3.7	ug/L			10/17/23 17:53	1
Benzene	0.27	U	1.0	0.27	ug/L			10/17/23 17:53	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/17/23 17:53	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/17/23 17:53	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/17/23 17:53	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/17/23 17:53	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/17/23 17:53	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/17/23 17:53	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/17/23 17:53	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/17/23 17:53	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/17/23 17:53	1

Client Sample ID: LC34-DPT0975-025.0-20231010
Lab Sample ID: 670-28390-34

Date Collected: 10/10/23 12:05
Matrix: Water
Date Received: 10/11/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**2.4**		1.0	0.25	ug/L			10/17/23 17:53	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/17/23 17:53	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/17/23 17:53	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/17/23 17:53	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/17/23 17:53	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/17/23 17:53	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/17/23 17:53	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/17/23 17:53	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/17/23 17:53	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/17/23 17:53	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/17/23 17:53	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/17/23 17:53	1
Styrene	0.27	U	1.0	0.27	ug/L			10/17/23 17:53	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/17/23 17:53	1
Toluene	0.25	U	1.0	0.25	ug/L			10/17/23 17:53	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/17/23 17:53	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/17/23 17:53	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/17/23 17:53	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/17/23 17:53	1
Vinyl chloride	**61**		1.0	0.40	ug/L			10/17/23 17:53	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/17/23 17:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 124*		*10/17/23 17:53*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*10/17/23 17:53*	*1*
Dibromofluoromethane (Surr)	*110*		*70 - 130*		*10/17/23 17:53*	*1*
Toluene-d8 (Surr)	*109*		*70 - 130*		*10/17/23 17:53*	*1*

Client Sample ID: LC34-DPT0975-034.0-20231010
Lab Sample ID: 670-28390-35

Date Collected: 10/10/23 12:35
Matrix: Water
Date Received: 10/11/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/17/23 18:34	1
1,1,2,2-Tetrachloroethane	0.40	U J3	1.0	0.40	ug/L			10/17/23 18:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/17/23 18:34	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/17/23 18:34	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/17/23 18:34	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/17/23 18:34	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/17/23 18:34	1
1,2-Dibromo-3-Chloropropane	1.8	U J3	5.0	1.8	ug/L			10/17/23 18:34	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/17/23 18:34	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 18:34	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/17/23 18:34	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/17/23 18:34	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 18:34	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 18:34	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			10/17/23 18:34	1
2-Hexanone	3.2	U J3	10	3.2	ug/L			10/17/23 18:34	1

Client Sample ID: LC34-DPT0975-034.0-20231010
Lab Sample ID: 670-28390-35

Date Collected: 10/10/23 12:35
Matrix: Water
Date Received: 10/11/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			10/17/23 18:34	1
Acetone	3.7	U J3	10	3.7	ug/L			10/17/23 18:34	1
Benzene	0.27	U	1.0	0.27	ug/L			10/17/23 18:34	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/17/23 18:34	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/17/23 18:34	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/17/23 18:34	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/17/23 18:34	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/17/23 18:34	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/17/23 18:34	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/17/23 18:34	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/17/23 18:34	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/17/23 18:34	1
cis-1,2-Dichloroethene	**0.61**	**I**	1.0	0.25	ug/L			10/17/23 18:34	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/17/23 18:34	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/17/23 18:34	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/17/23 18:34	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/17/23 18:34	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/17/23 18:34	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/17/23 18:34	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/17/23 18:34	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/17/23 18:34	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/17/23 18:34	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/17/23 18:34	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/17/23 18:34	1
Styrene	0.27	U	1.0	0.27	ug/L			10/17/23 18:34	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/17/23 18:34	1
Toluene	0.25	U	1.0	0.25	ug/L			10/17/23 18:34	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/17/23 18:34	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/17/23 18:34	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/17/23 18:34	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/17/23 18:34	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/17/23 18:34	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/17/23 18:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 124*		*10/17/23 18:34*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*10/17/23 18:34*	*1*
Dibromofluoromethane (Surr)	*108*		*70 - 130*		*10/17/23 18:34*	*1*
Toluene-d8 (Surr)	*110*		*70 - 130*		*10/17/23 18:34*	*1*

Client Sample ID: LC34-DPT0975-038.0-20231010
Lab Sample ID: 670-28390-36

Date Collected: 10/10/23 12:55
Matrix: Water
Date Received: 10/11/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/17/23 18:53	1
1,1,2,2-Tetrachloroethane	0.40	U J3	1.0	0.40	ug/L			10/17/23 18:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/17/23 18:53	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/17/23 18:53	1

Client Sample ID: LC34-DPT0975-038.0-20231010
Lab Sample ID: 670-28390-36
Date Collected: 10/10/23 12:55
Matrix: Water
Date Received: 10/11/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/17/23 18:53	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/17/23 18:53	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/17/23 18:53	1
1,2-Dibromo-3-Chloropropane	1.8	U J3	5.0	1.8	ug/L			10/17/23 18:53	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/17/23 18:53	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 18:53	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/17/23 18:53	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/17/23 18:53	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 18:53	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 18:53	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			10/17/23 18:53	1
2-Hexanone	3.2	U J3	10	3.2	ug/L			10/17/23 18:53	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			10/17/23 18:53	1
Acetone	3.7	U J3	10	3.7	ug/L			10/17/23 18:53	1
Benzene	0.27	U	1.0	0.27	ug/L			10/17/23 18:53	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/17/23 18:53	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/17/23 18:53	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/17/23 18:53	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/17/23 18:53	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/17/23 18:53	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/17/23 18:53	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/17/23 18:53	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/17/23 18:53	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/17/23 18:53	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/17/23 18:53	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/17/23 18:53	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/17/23 18:53	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/17/23 18:53	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/17/23 18:53	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/17/23 18:53	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/17/23 18:53	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/17/23 18:53	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/17/23 18:53	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/17/23 18:53	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/17/23 18:53	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/17/23 18:53	1
Styrene	0.27	U	1.0	0.27	ug/L			10/17/23 18:53	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/17/23 18:53	1
Toluene	0.25	U	1.0	0.25	ug/L			10/17/23 18:53	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/17/23 18:53	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/17/23 18:53	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/17/23 18:53	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/17/23 18:53	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/17/23 18:53	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/17/23 18:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 124*		*10/17/23 18:53*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*10/17/23 18:53*	*1*
Dibromofluoromethane (Surr)	*108*		*70 - 130*		*10/17/23 18:53*	*1*

Client: Tetra Tech, Inc.
Job ID: 670-28390-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT0975-038.0-20231010
Lab Sample ID: 670-28390-36
Date Collected: 10/10/23 12:55
Matrix: Water
Date Received: 10/11/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	113		70 - 130		10/17/23 18:53	1

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28390-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(60-124)	(70-130)	(70-130)	(70-130)
670-28390-1	LC34-DPT0970-008.0-20231009	97	101	106	109
670-28390-2	LC34-DPT0970-013.0-20231009	99	97	109	109
670-28390-3	LC34-DPT0970-018.0-20231009	97	104	99	108
670-28390-3 - DL	LC34-DPT0970-018.0-20231009	99	101	107	107
670-28390-4	LC34-DPT0970-025.0-20231009	100	102	110	109
670-28390-4	LC34-DPT0970-025.0-20231009	97	103	100	103
670-28390-5	LC34-DPT0970-034.0-20231009	101	98	108	111
670-28390-6	LC34-DPT0970-038.0-20231009	99	100	104	100
670-28390-7	LC34-DPT0971-008.0-20231009	98	103	107	108
670-28390-7	LC34-DPT0971-008.0-20231009	95	104	100	102
670-28390-8	LC34-DPT0971-013.0-20231009	97	101	102	99
670-28390-9	LC34-DPT0971-018.0-20231009	98	101	98	102
670-28390-10	LC34-DPT0971-025.0-20231009	95	99	104	108
670-28390-11	LC34-DPT0971-034.0-20231009	101	95	108	101
670-28390-12	LC34-DPT0971-038.0-20231009	99	99	109	105
670-28390-12	LC34-DPT0971-038.0-20231009	96	104	100	101
670-28390-13	LC34-DPT0972-008.0-20231009	100	103	105	105
670-28390-14	LC34-DPT0972-013.0-20231009	103	97	112	107
670-28390-15	LC34-DPT0972-018.0-20231009	100	102	106	108
670-28390-16	LC34-DPT0972-025.0-20231009	99	98	105	110
670-28390-17	LC34-DPT0972-034.0-20231009	100	100	109	117
670-28390-18	LC34-DPT0972-038.0-20231009	100	100	110	110
670-28390-19	LC34-DPT0973-008.0-20231010	96	94	107	105
670-28390-20	LC34-DPT0973-013.0-20231010	95	100	107	112
670-28390-21	LC34-DPT0973-018.0-20231010	96	102	108	109
670-28390-22	LC34-DPT0973-025.0-20231010	97	101	104	109
670-28390-23	LC34-DPT0973-034.0-20231010	85	89	89	114
670-28390-24	LC34-DPT0973-038.0-20231010	84	105	90	113

Surrogate Summary

Client: Tetra Tech, Inc.
Job ID: 670-28390-1
Project/Site: NASA KSC LC34 DPT

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Matrix: Water
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(60-124)	(70-130)	(70-130)	(70-130)
670-28390-25	LC34-DPT0974-008.0-20231010	86	119	91	114
670-28390-26	LC34-DPT0974-013.0-2023101 0	96	104	106	109
670-28390-27	LC34-DPT0974-018.0-2023101 0	97	99	109	113
670-28390-27 - DL	LC34-DPT0974-018.0-2023101 0	98	100	109	112
670-28390-28	LC34-DPT0974-025.0-2023101 0	96	102	103	109
670-28390-29	LC34-DPT0974-034.0-2023101 0	95	104	107	106
670-28390-30	LC34-DPT0974-038.0-2023101 0	99	102	106	112
670-28390-31	LC34-DPT0975-008.0-2023101 0	99	97	106	111
670-28390-32	LC34-DPT0975-013.0-2023101 0	94	101	107	110
670-28390-33	LC34-DPT0975-018.0-2023101 0	94	102	102	114
670-28390-34	LC34-DPT0975-025.0-2023101 0	101	102	110	109
670-28390-35	LC34-DPT0975-034.0-2023101 0	100	100	108	110
670-28390-36	LC34-DPT0975-038.0-2023101 0	99	102	108	113
LCS 680-802973/5	Lab Control Sample	99	90	98	94
LCS 680-802997/5	Lab Control Sample	103	98	103	98
LCS 680-803189/6	Lab Control Sample	109	98	104	97
LCS 680-803294/4	Lab Control Sample	104	99	98	95
LCS 680-803455/4	Lab Control Sample	109	100	103	99
LCS 680-803472/5	Lab Control Sample	104	102	104	99
LCS 680-803626/4	Lab Control Sample	94	95	98	96
LCSD 680-802973/6	Lab Control Sample Dup	100	91	98	93
LCSD 680-802997/6	Lab Control Sample Dup	106	99	102	100
LCSD 680-803189/7	Lab Control Sample Dup	105	97	100	101
LCSD 680-803294/5	Lab Control Sample Dup	95	99	96	93
LCSD 680-803455/5	Lab Control Sample Dup	100	100	101	97
LCSD 680-803472/6	Lab Control Sample Dup	107	103	103	105
LCSD 680-803626/5	Lab Control Sample Dup	103	93	99	95
MB 680-802973/9	Method Blank	89	102	96	103
MB 680-802997/9	Method Blank	95	98	103	113
MB 680-803189/10	Method Blank	95	104	102	113
MB 680-803294/8	Method Blank	96	103	100	101
MB 680-803455/8	Method Blank	98	101	103	100
MB 680-803472/9	Method Blank	95	102	107	108
MB 680-803626/7	Method Blank	99	104	105	112

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28390-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 680-802973/9
Matrix: Water
Analysis Batch: 802973

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/17/23 11:58	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/17/23 11:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/17/23 11:58	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/17/23 11:58	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/17/23 11:58	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/17/23 11:58	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/17/23 11:58	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/17/23 11:58	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/17/23 11:58	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 11:58	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/17/23 11:58	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/17/23 11:58	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 11:58	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 11:58	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/17/23 11:58	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/17/23 11:58	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/17/23 11:58	1
Acetone	3.7	U	10	3.7	ug/L			10/17/23 11:58	1
Benzene	0.27	U	1.0	0.27	ug/L			10/17/23 11:58	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/17/23 11:58	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/17/23 11:58	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/17/23 11:58	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/17/23 11:58	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/17/23 11:58	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/17/23 11:58	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/17/23 11:58	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/17/23 11:58	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/17/23 11:58	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/17/23 11:58	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/17/23 11:58	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/17/23 11:58	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/17/23 11:58	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/17/23 11:58	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/17/23 11:58	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/17/23 11:58	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/17/23 11:58	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/17/23 11:58	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/17/23 11:58	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/17/23 11:58	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/17/23 11:58	1
Styrene	0.27	U	1.0	0.27	ug/L			10/17/23 11:58	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/17/23 11:58	1
Toluene	0.25	U	1.0	0.25	ug/L			10/17/23 11:58	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/17/23 11:58	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/17/23 11:58	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/17/23 11:58	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/17/23 11:58	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/17/23 11:58	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-802973/9
Matrix: Water
Analysis Batch: 802973

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/17/23 11:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*60 - 124*		*10/17/23 11:58*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*10/17/23 11:58*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*10/17/23 11:58*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*10/17/23 11:58*	*1*

Lab Sample ID: LCS 680-802973/5
Matrix: Water
Analysis Batch: 802973

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	52.9		ug/L		106	70 - 130
1,1,2,2-Tetrachloroethane	50.0	41.9		ug/L		84	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	44.6		ug/L		89	63 - 141
1,1,2-Trichloroethane	50.0	45.4		ug/L		91	70 - 130
1,1-Dichloroethane	50.0	49.5		ug/L		99	70 - 130
1,1-Dichloroethene	50.0	47.9		ug/L		96	70 - 130
1,2,4-Trichlorobenzene	50.0	65.8	J3	ug/L		132	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	62.0		ug/L		124	70 - 130
1,2-Dibromoethane (EDB)	50.0	44.8		ug/L		90	70 - 130
1,2-Dichlorobenzene	50.0	55.3		ug/L		111	70 - 130
1,2-Dichloroethane	50.0	50.8		ug/L		102	70 - 130
1,2-Dichloropropane	50.0	49.2		ug/L		98	70 - 130
1,3-Dichlorobenzene	50.0	48.4		ug/L		97	70 - 130
1,4-Dichlorobenzene	50.0	47.9		ug/L		96	70 - 130
2-Butanone (MEK)	250	179		ug/L		72	69 - 120
2-Hexanone	250	219		ug/L		87	70 - 130
4-Methyl-2-pentanone	250	228		ug/L		91	68 - 120
Acetone	250	196		ug/L		78	67 - 120
Benzene	50.0	49.5		ug/L		99	70 - 130
Bromodichloromethane	50.0	46.0		ug/L		92	70 - 130
Bromoform	50.0	40.5		ug/L		81	69 - 129
Bromomethane	50.0	44.6		ug/L		89	28 - 192
Carbon disulfide	50.0	46.9		ug/L		94	70 - 130
Carbon tetrachloride	50.0	46.5		ug/L		93	70 - 130
Chlorobenzene	50.0	49.1		ug/L		98	70 - 130
Chloroethane	50.0	55.6		ug/L		111	31 - 213
Chloroform	50.0	47.9		ug/L		96	70 - 130
Chloromethane	50.0	49.4		ug/L		99	59 - 127
cis-1,2-Dichloroethene	50.0	50.7		ug/L		101	70 - 130
cis-1,3-Dichloropropene	50.0	47.0		ug/L		94	70 - 130
Cyclohexane	50.0	50.6		ug/L		101	23 - 175
Dibromochloromethane	50.0	43.2		ug/L		86	70 - 130
Dichlorodifluoromethane	50.0	50.2		ug/L		100	70 - 130
Ethylbenzene	50.0	51.0		ug/L		102	70 - 130
Isopropylbenzene	50.0	49.2		ug/L		98	70 - 130

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-802973/5
Matrix: Water
Analysis Batch: 802973

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
m,p-Xylenes	50.0	51.6		ug/L		103	70 - 130
Methyl acetate	100	91.5		ug/L		92	67 - 120
Methyl tert-butyl ether	50.0	46.3		ug/L		93	70 - 130
Methylene Chloride	50.0	48.6		ug/L		97	70 - 130
o-Xylene	50.0	50.3		ug/L		101	70 - 130
Styrene	50.0	51.0		ug/L		102	70 - 130
Tetrachloroethene	50.0	46.4		ug/L		93	70 - 130
Toluene	50.0	49.2		ug/L		98	70 - 130
trans-1,2-Dichloroethene	50.0	48.4		ug/L		97	70 - 130
trans-1,3-Dichloropropene	50.0	46.1		ug/L		92	70 - 130
Trichloroethene	50.0	50.3		ug/L		101	70 - 130
Trichlorofluoromethane	50.0	50.7		ug/L		101	63 - 142
Vinyl chloride	50.0	51.7		ug/L		103	66 - 129
Xylenes, Total	100	102		ug/L		102	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 124*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*
Dibromofluoromethane (Surr)	*98*		*70 - 130*
Toluene-d8 (Surr)	*94*		*70 - 130*

Lab Sample ID: LCSD 680-802973/6
Matrix: Water
Analysis Batch: 802973

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	50.0	52.3		ug/L		105	70 - 130	1	30
1,1,2,2-Tetrachloroethane	50.0	48.0		ug/L		96	70 - 130	14	30
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	49.5		ug/L		99	63 - 141	11	30
1,1,2-Trichloroethane	50.0	45.7		ug/L		91	70 - 130	1	30
1,1-Dichloroethane	50.0	48.9		ug/L		98	70 - 130	1	30
1,1-Dichloroethene	50.0	47.1		ug/L		94	70 - 130	2	20
1,2,4-Trichlorobenzene	50.0	58.2		ug/L		116	70 - 130	12	30
1,2-Dibromo-3-Chloropropane	50.0	57.1		ug/L		114	70 - 130	8	30
1,2-Dibromoethane (EDB)	50.0	45.2		ug/L		90	70 - 130	1	30
1,2-Dichlorobenzene	50.0	48.9		ug/L		98	70 - 130	12	30
1,2-Dichloroethane	50.0	51.0		ug/L		102	70 - 130	0	50
1,2-Dichloropropane	50.0	48.9		ug/L		98	70 - 130	1	20
1,3-Dichlorobenzene	50.0	47.9		ug/L		96	70 - 130	1	30
1,4-Dichlorobenzene	50.0	47.8		ug/L		96	70 - 130	0	30
2-Butanone (MEK)	250	193		ug/L		77	69 - 120	8	30
2-Hexanone	250	232		ug/L		93	70 - 130	6	20
4-Methyl-2-pentanone	250	241		ug/L		96	68 - 120	5	30
Acetone	250	207		ug/L		83	67 - 120	6	30
Benzene	50.0	48.9		ug/L		98	70 - 130	1	30
Bromodichloromethane	50.0	46.3		ug/L		93	70 - 130	1	30
Bromoform	50.0	41.9		ug/L		84	69 - 129	3	30
Bromomethane	50.0	40.6		ug/L		81	28 - 192	9	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-802973/6
Matrix: Water
Analysis Batch: 802973

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon disulfide	50.0	44.5		ug/L		89	70 - 130	5	30
Carbon tetrachloride	50.0	46.5		ug/L		93	70 - 130	0	30
Chlorobenzene	50.0	48.8		ug/L		98	70 - 130	0	30
Chloroethane	50.0	53.2		ug/L		106	31 - 213	4	30
Chloroform	50.0	48.0		ug/L		96	70 - 130	0	30
Chloromethane	50.0	46.8		ug/L		94	59 - 127	5	30
cis-1,2-Dichloroethene	50.0	50.3		ug/L		101	70 - 130	1	30
cis-1,3-Dichloropropene	50.0	46.3		ug/L		93	70 - 130	2	20
Cyclohexane	50.0	49.5		ug/L		99	23 - 175	2	30
Dibromochloromethane	50.0	44.2		ug/L		88	70 - 130	2	30
Dichlorodifluoromethane	50.0	47.9		ug/L		96	70 - 130	5	40
Ethylbenzene	50.0	49.8		ug/L		100	70 - 130	2	20
Isopropylbenzene	50.0	49.7		ug/L		99	70 - 130	1	30
m,p-Xylenes	50.0	50.5		ug/L		101	70 - 130	2	30
Methyl acetate	100	97.4		ug/L		97	67 - 120	6	30
Methyl tert-butyl ether	50.0	48.2		ug/L		96	70 - 130	4	30
Methylene Chloride	50.0	47.7		ug/L		95	70 - 130	2	30
o-Xylene	50.0	49.8		ug/L		100	70 - 130	1	30
Styrene	50.0	50.0		ug/L		100	70 - 130	2	30
Tetrachloroethene	50.0	46.0		ug/L		92	70 - 130	1	30
Toluene	50.0	48.8		ug/L		98	70 - 130	1	30
trans-1,2-Dichloroethene	50.0	47.9		ug/L		96	70 - 130	1	30
trans-1,3-Dichloropropene	50.0	47.0		ug/L		94	70 - 130	2	30
Trichloroethene	50.0	49.8		ug/L		100	70 - 130	1	30
Trichlorofluoromethane	50.0	49.0		ug/L		98	63 - 142	3	30
Vinyl chloride	50.0	49.6		ug/L		99	66 - 129	4	30
Xylenes, Total	100	100		ug/L		100	70 - 130	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 124*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*
Dibromofluoromethane (Surr)	*98*		*70 - 130*
Toluene-d8 (Surr)	*93*		*70 - 130*

Lab Sample ID: MB 680-802997/9
Matrix: Water
Analysis Batch: 802997

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/17/23 12:57	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/17/23 12:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/17/23 12:57	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/17/23 12:57	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/17/23 12:57	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/17/23 12:57	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/17/23 12:57	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/17/23 12:57	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/17/23 12:57	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-802997/9
Matrix: Water
Analysis Batch: 802997

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 12:57	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/17/23 12:57	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/17/23 12:57	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 12:57	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 12:57	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/17/23 12:57	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/17/23 12:57	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/17/23 12:57	1
Acetone	3.7	U	10	3.7	ug/L			10/17/23 12:57	1
Benzene	0.27	U	1.0	0.27	ug/L			10/17/23 12:57	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/17/23 12:57	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/17/23 12:57	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/17/23 12:57	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/17/23 12:57	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/17/23 12:57	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/17/23 12:57	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/17/23 12:57	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/17/23 12:57	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/17/23 12:57	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/17/23 12:57	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/17/23 12:57	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/17/23 12:57	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/17/23 12:57	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/17/23 12:57	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/17/23 12:57	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/17/23 12:57	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/17/23 12:57	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/17/23 12:57	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/17/23 12:57	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/17/23 12:57	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/17/23 12:57	1
Styrene	0.27	U	1.0	0.27	ug/L			10/17/23 12:57	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/17/23 12:57	1
Toluene	0.25	U	1.0	0.25	ug/L			10/17/23 12:57	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/17/23 12:57	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/17/23 12:57	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/17/23 12:57	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/17/23 12:57	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/17/23 12:57	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/17/23 12:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*		*10/17/23 12:57*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*10/17/23 12:57*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*10/17/23 12:57*	*1*
Toluene-d8 (Surr)	*113*		*70 - 130*		*10/17/23 12:57*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-802997/5
Matrix: Water
Analysis Batch: 802997

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	54.3		ug/L		109	70 - 130
1,1,2,2-Tetrachloroethane	50.0	63.4		ug/L		127	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	50.7		ug/L		101	63 - 141
1,1,2-Trichloroethane	50.0	55.9		ug/L		112	70 - 130
1,1-Dichloroethane	50.0	54.0		ug/L		108	70 - 130
1,1-Dichloroethene	50.0	55.7		ug/L		111	70 - 130
1,2,4-Trichlorobenzene	50.0	54.7		ug/L		109	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	67.1	J3	ug/L		134	70 - 130
1,2-Dibromoethane (EDB)	50.0	52.3		ug/L		105	70 - 130
1,2-Dichlorobenzene	50.0	54.2		ug/L		108	70 - 130
1,2-Dichloroethane	50.0	51.8		ug/L		104	70 - 130
1,2-Dichloropropane	50.0	54.3		ug/L		109	70 - 130
1,3-Dichlorobenzene	50.0	51.8		ug/L		104	70 - 130
1,4-Dichlorobenzene	50.0	51.7		ug/L		103	70 - 130
2-Butanone (MEK)	250	307	J3	ug/L		123	69 - 120
2-Hexanone	250	315		ug/L		126	70 - 130
4-Methyl-2-pentanone	250	314	J3	ug/L		126	68 - 120
Acetone	250	319	J3	ug/L		128	67 - 120
Benzene	50.0	51.0		ug/L		102	70 - 130
Bromodichloromethane	50.0	49.6		ug/L		99	70 - 130
Bromoform	50.0	53.4		ug/L		107	69 - 129
Bromomethane	50.0	45.3		ug/L		91	28 - 192
Carbon disulfide	50.0	54.6		ug/L		109	70 - 130
Carbon tetrachloride	50.0	54.4		ug/L		109	70 - 130
Chlorobenzene	50.0	50.4		ug/L		101	70 - 130
Chloroethane	50.0	47.6		ug/L		95	31 - 213
Chloroform	50.0	46.9		ug/L		94	70 - 130
Chloromethane	50.0	51.8		ug/L		104	59 - 127
cis-1,2-Dichloroethene	50.0	51.5		ug/L		103	70 - 130
cis-1,3-Dichloropropene	50.0	57.4		ug/L		115	70 - 130
Cyclohexane	50.0	58.3		ug/L		117	23 - 175
Dibromochloromethane	50.0	52.7		ug/L		105	70 - 130
Dichlorodifluoromethane	50.0	46.9		ug/L		94	70 - 130
Ethylbenzene	50.0	52.3		ug/L		105	70 - 130
Isopropylbenzene	50.0	52.4		ug/L		105	70 - 130
m,p-Xylenes	50.0	50.3		ug/L		101	70 - 130
Methyl acetate	100	117		ug/L		117	67 - 120
Methyl tert-butyl ether	50.0	54.6		ug/L		109	70 - 130
Methylene Chloride	50.0	52.4		ug/L		105	70 - 130
o-Xylene	50.0	50.8		ug/L		102	70 - 130
Styrene	50.0	49.3		ug/L		99	70 - 130
Tetrachloroethene	50.0	54.1		ug/L		108	70 - 130
Toluene	50.0	52.2		ug/L		104	70 - 130
trans-1,2-Dichloroethene	50.0	57.1		ug/L		114	70 - 130
trans-1,3-Dichloropropene	50.0	54.2		ug/L		108	70 - 130
Trichloroethene	50.0	50.9		ug/L		102	70 - 130
Trichlorofluoromethane	50.0	47.6		ug/L		95	63 - 142
Vinyl chloride	50.0	53.0		ug/L		106	66 - 129

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-802997/5
Matrix: Water
Analysis Batch: 802997

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Xylenes, Total			100	101		ug/L		101	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 124*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
Dibromofluoromethane (Surr)	*103*		*70 - 130*
Toluene-d8 (Surr)	*98*		*70 - 130*

Lab Sample ID: LCSD 680-802997/6
Matrix: Water
Analysis Batch: 802997

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane			50.0	53.5		ug/L		107	70 - 130	1	30
1,1,2,2-Tetrachloroethane			50.0	66.6	J3	ug/L		133	70 - 130	5	30
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	49.1		ug/L		98	63 - 141	3	30
1,1,2-Trichloroethane			50.0	61.1		ug/L		122	70 - 130	9	30
1,1-Dichloroethane			50.0	54.5		ug/L		109	70 - 130	1	30
1,1-Dichloroethene			50.0	48.0		ug/L		96	70 - 130	15	20
1,2,4-Trichlorobenzene			50.0	54.7		ug/L		109	70 - 130	0	30
1,2-Dibromo-3-Chloropropane			50.0	69.2	J3	ug/L		138	70 - 130	3	30
1,2-Dibromoethane (EDB)			50.0	54.6		ug/L		109	70 - 130	4	30
1,2-Dichlorobenzene			50.0	55.0		ug/L		110	70 - 130	1	30
1,2-Dichloroethane			50.0	54.1		ug/L		108	70 - 130	4	50
1,2-Dichloropropane			50.0	57.3		ug/L		115	70 - 130	5	20
1,3-Dichlorobenzene			50.0	51.6		ug/L		103	70 - 130	0	30
1,4-Dichlorobenzene			50.0	51.3		ug/L		103	70 - 130	1	30
2-Butanone (MEK)			250	333	J3	ug/L		133	69 - 120	8	30
2-Hexanone			250	364	J3	ug/L		146	70 - 130	14	20
4-Methyl-2-pentanone			250	350	J3	ug/L		140	68 - 120	11	30
Acetone			250	346	J3	ug/L		139	67 - 120	8	30
Benzene			50.0	54.1		ug/L		108	70 - 130	6	30
Bromodichloromethane			50.0	50.9		ug/L		102	70 - 130	3	30
Bromoform			50.0	52.3		ug/L		105	69 - 129	2	30
Bromomethane			50.0	44.7		ug/L		89	28 - 192	2	30
Carbon disulfide			50.0	53.9		ug/L		108	70 - 130	1	30
Carbon tetrachloride			50.0	54.5		ug/L		109	70 - 130	0	30
Chlorobenzene			50.0	50.3		ug/L		101	70 - 130	0	30
Chloroethane			50.0	44.3		ug/L		89	31 - 213	7	30
Chloroform			50.0	46.7		ug/L		93	70 - 130	0	30
Chloromethane			50.0	48.6		ug/L		97	59 - 127	6	30
cis-1,2-Dichloroethene			50.0	57.4		ug/L		115	70 - 130	11	30
cis-1,3-Dichloropropene			50.0	57.9		ug/L		116	70 - 130	1	20
Cyclohexane			50.0	58.0		ug/L		116	23 - 175	1	30
Dibromochloromethane			50.0	52.8		ug/L		106	70 - 130	0	30
Dichlorodifluoromethane			50.0	45.3		ug/L		91	70 - 130	3	40
Ethylbenzene			50.0	51.5		ug/L		103	70 - 130	2	20
Isopropylbenzene			50.0	50.8		ug/L		102	70 - 130	3	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-802997/6
Matrix: Water
Analysis Batch: 802997

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m,p-Xylenes			50.0	50.4		ug/L		101	70 - 130	0	30
Methyl acetate			100	119		ug/L		119	67 - 120	2	30
Methyl tert-butyl ether			50.0	56.8		ug/L		114	70 - 130	4	30
Methylene Chloride			50.0	53.1		ug/L		106	70 - 130	1	30
o-Xylene			50.0	48.8		ug/L		98	70 - 130	4	30
Styrene			50.0	48.6		ug/L		97	70 - 130	2	30
Tetrachloroethene			50.0	54.3		ug/L		109	70 - 130	0	30
Toluene			50.0	54.4		ug/L		109	70 - 130	4	30
trans-1,2-Dichloroethene			50.0	58.1		ug/L		116	70 - 130	2	30
trans-1,3-Dichloropropene			50.0	56.1		ug/L		112	70 - 130	4	30
Trichloroethene			50.0	52.3		ug/L		105	70 - 130	3	30
Trichlorofluoromethane			50.0	46.1		ug/L		92	63 - 142	3	30
Vinyl chloride			50.0	51.0		ug/L		102	66 - 129	4	30
Xylenes, Total			100	99.2		ug/L		99	70 - 130	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*60 - 124*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*102*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

Lab Sample ID: MB 680-803189/10
Matrix: Water
Analysis Batch: 803189

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/18/23 12:26	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/18/23 12:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/18/23 12:26	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/18/23 12:26	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/18/23 12:26	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/18/23 12:26	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/18/23 12:26	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/18/23 12:26	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/18/23 12:26	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/18/23 12:26	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/18/23 12:26	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/18/23 12:26	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/18/23 12:26	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/18/23 12:26	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/18/23 12:26	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/18/23 12:26	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/18/23 12:26	1
Acetone	3.7	U	10	3.7	ug/L			10/18/23 12:26	1
Benzene	0.27	U	1.0	0.27	ug/L			10/18/23 12:26	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/18/23 12:26	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/18/23 12:26	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/18/23 12:26	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-803189/10
Matrix: Water
Analysis Batch: 803189

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/18/23 12:26	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/18/23 12:26	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/18/23 12:26	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/18/23 12:26	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/18/23 12:26	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/18/23 12:26	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/18/23 12:26	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/18/23 12:26	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/18/23 12:26	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/18/23 12:26	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/18/23 12:26	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/18/23 12:26	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/18/23 12:26	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/18/23 12:26	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/18/23 12:26	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/18/23 12:26	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/18/23 12:26	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/18/23 12:26	1
Styrene	0.27	U	1.0	0.27	ug/L			10/18/23 12:26	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/18/23 12:26	1
Toluene	0.25	U	1.0	0.25	ug/L			10/18/23 12:26	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/18/23 12:26	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/18/23 12:26	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/18/23 12:26	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/18/23 12:26	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/18/23 12:26	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/18/23 12:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*		*10/18/23 12:26*	*1*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*10/18/23 12:26*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*10/18/23 12:26*	*1*
Toluene-d8 (Surr)	*113*		*70 - 130*		*10/18/23 12:26*	*1*

Lab Sample ID: LCS 680-803189/6
Matrix: Water
Analysis Batch: 803189

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	52.7		ug/L		105	70 - 130
1,1,2,2-Tetrachloroethane	50.0	64.7		ug/L		129	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	52.7		ug/L		105	63 - 141
1,1,2-Trichloroethane	50.0	58.6		ug/L		117	70 - 130
1,1-Dichloroethane	50.0	53.4		ug/L		107	70 - 130
1,1-Dichloroethene	50.0	56.5		ug/L		113	70 - 130
1,2,4-Trichlorobenzene	50.0	55.7		ug/L		111	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	73.2	J3	ug/L		146	70 - 130
1,2-Dibromoethane (EDB)	50.0	53.4		ug/L		107	70 - 130

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-803189/6
Matrix: Water
Analysis Batch: 803189

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichlorobenzene	50.0	55.3		ug/L		111	70 - 130
1,2-Dichloroethane	50.0	54.6		ug/L		109	70 - 130
1,2-Dichloropropane	50.0	56.0		ug/L		112	70 - 130
1,3-Dichlorobenzene	50.0	50.5		ug/L		101	70 - 130
1,4-Dichlorobenzene	50.0	49.5		ug/L		99	70 - 130
2-Butanone (MEK)	250	324	J3	ug/L		130	69 - 120
2-Hexanone	250	347	J3	ug/L		139	70 - 130
4-Methyl-2-pentanone	250	338	J3	ug/L		135	68 - 120
Acetone	250	337	J3	ug/L		135	67 - 120
Benzene	50.0	52.0		ug/L		104	70 - 130
Bromodichloromethane	50.0	49.8		ug/L		100	70 - 130
Bromoform	50.0	54.4		ug/L		109	69 - 129
Bromomethane	50.0	50.0		ug/L		100	28 - 192
Carbon disulfide	50.0	55.5		ug/L		111	70 - 130
Carbon tetrachloride	50.0	53.0		ug/L		106	70 - 130
Chlorobenzene	50.0	51.3		ug/L		103	70 - 130
Chloroethane	50.0	51.1		ug/L		102	31 - 213
Chloroform	50.0	46.5		ug/L		93	70 - 130
Chloromethane	50.0	50.4		ug/L		101	59 - 127
cis-1,2-Dichloroethene	50.0	50.0		ug/L		100	70 - 130
cis-1,3-Dichloropropene	50.0	58.2		ug/L		116	70 - 130
Cyclohexane	50.0	56.5		ug/L		113	23 - 175
Dibromochloromethane	50.0	53.0		ug/L		106	70 - 130
Dichlorodifluoromethane	50.0	43.1		ug/L		86	70 - 130
Ethylbenzene	50.0	52.0		ug/L		104	70 - 130
Isopropylbenzene	50.0	52.1		ug/L		104	70 - 130
m,p-Xylenes	50.0	50.5		ug/L		101	70 - 130
Methyl acetate	100	120		ug/L		120	67 - 120
Methyl tert-butyl ether	50.0	57.6		ug/L		115	70 - 130
Methylene Chloride	50.0	55.4		ug/L		111	70 - 130
o-Xylene	50.0	50.9		ug/L		102	70 - 130
Styrene	50.0	49.6		ug/L		99	70 - 130
Tetrachloroethene	50.0	53.5		ug/L		107	70 - 130
Toluene	50.0	51.4		ug/L		103	70 - 130
trans-1,2-Dichloroethene	50.0	59.9		ug/L		120	70 - 130
trans-1,3-Dichloropropene	50.0	55.1		ug/L		110	70 - 130
Trichloroethene	50.0	52.3		ug/L		105	70 - 130
Trichlorofluoromethane	50.0	43.9		ug/L		88	63 - 142
Vinyl chloride	50.0	51.3		ug/L		103	66 - 129
Xylenes, Total	100	101		ug/L		101	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*109*		*60 - 124*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
Dibromofluoromethane (Surr)	*104*		*70 - 130*
Toluene-d8 (Surr)	*97*		*70 - 130*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-803189/7
Matrix: Water
Analysis Batch: 803189

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	50.0	52.9		ug/L		106	70 - 130	0	30
1,1,2,2-Tetrachloroethane	50.0	64.1		ug/L		128	70 - 130	1	30
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	48.1		ug/L		96	63 - 141	9	30
1,1,2-Trichloroethane	50.0	56.2		ug/L		112	70 - 130	4	30
1,1-Dichloroethane	50.0	52.4		ug/L		105	70 - 130	2	30
1,1-Dichloroethene	50.0	53.5		ug/L		107	70 - 130	6	20
1,2,4-Trichlorobenzene	50.0	54.3		ug/L		109	70 - 130	2	30
1,2-Dibromo-3-Chloropropane	50.0	69.2	J3	ug/L		138	70 - 130	6	30
1,2-Dibromoethane (EDB)	50.0	50.7		ug/L		101	70 - 130	5	30
1,2-Dichlorobenzene	50.0	53.9		ug/L		108	70 - 130	3	30
1,2-Dichloroethane	50.0	52.3		ug/L		105	70 - 130	4	50
1,2-Dichloropropane	50.0	53.1		ug/L		106	70 - 130	5	20
1,3-Dichlorobenzene	50.0	52.1		ug/L		104	70 - 130	3	30
1,4-Dichlorobenzene	50.0	50.7		ug/L		101	70 - 130	2	30
2-Butanone (MEK)	250	315	J3	ug/L		126	69 - 120	3	30
2-Hexanone	250	333	J3	ug/L		133	70 - 130	4	20
4-Methyl-2-pentanone	250	333	J3	ug/L		133	68 - 120	1	30
Acetone	250	316	J3	ug/L		127	67 - 120	6	30
Benzene	50.0	52.7		ug/L		105	70 - 130	1	30
Bromodichloromethane	50.0	47.9		ug/L		96	70 - 130	4	30
Bromoform	50.0	52.4		ug/L		105	69 - 129	4	30
Bromomethane	50.0	49.4		ug/L		99	28 - 192	1	30
Carbon disulfide	50.0	53.5		ug/L		107	70 - 130	4	30
Carbon tetrachloride	50.0	51.7		ug/L		103	70 - 130	2	30
Chlorobenzene	50.0	50.9		ug/L		102	70 - 130	1	30
Chloroethane	50.0	46.0		ug/L		92	31 - 213	11	30
Chloroform	50.0	44.1		ug/L		88	70 - 130	5	30
Chloromethane	50.0	45.6		ug/L		91	59 - 127	10	30
cis-1,2-Dichloroethene	50.0	49.9		ug/L		100	70 - 130	0	30
cis-1,3-Dichloropropene	50.0	55.4		ug/L		111	70 - 130	5	20
Cyclohexane	50.0	56.5		ug/L		113	23 - 175	0	30
Dibromochloromethane	50.0	50.1		ug/L		100	70 - 130	6	30
Dichlorodifluoromethane	50.0	41.3		ug/L		83	70 - 130	4	40
Ethylbenzene	50.0	52.4		ug/L		105	70 - 130	1	20
Isopropylbenzene	50.0	51.8		ug/L		104	70 - 130	1	30
m,p-Xylenes	50.0	49.5		ug/L		99	70 - 130	2	30
Methyl acetate	100	111		ug/L		111	67 - 120	8	30
Methyl tert-butyl ether	50.0	53.6		ug/L		107	70 - 130	7	30
Methylene Chloride	50.0	52.1		ug/L		104	70 - 130	6	30
o-Xylene	50.0	50.9		ug/L		102	70 - 130	0	30
Styrene	50.0	50.1		ug/L		100	70 - 130	1	30
Tetrachloroethene	50.0	50.4		ug/L		101	70 - 130	6	30
Toluene	50.0	50.8		ug/L		102	70 - 130	1	30
trans-1,2-Dichloroethene	50.0	56.6		ug/L		113	70 - 130	6	30
trans-1,3-Dichloropropene	50.0	50.6		ug/L		101	70 - 130	9	30
Trichloroethene	50.0	50.4		ug/L		101	70 - 130	4	30
Trichlorofluoromethane	50.0	40.2		ug/L		80	63 - 142	9	30
Vinyl chloride	50.0	49.0		ug/L		98	66 - 129	5	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-803189/7
Matrix: Water
Analysis Batch: 803189

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Xylenes, Total			100	100		ug/L		100	70 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 124*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
Dibromofluoromethane (Surr)	*100*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*

Lab Sample ID: MB 680-803294/8
Matrix: Water
Analysis Batch: 803294

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/18/23 15:36	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/18/23 15:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/18/23 15:36	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/18/23 15:36	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/18/23 15:36	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/18/23 15:36	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/18/23 15:36	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/18/23 15:36	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/18/23 15:36	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/18/23 15:36	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/18/23 15:36	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/18/23 15:36	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/18/23 15:36	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/18/23 15:36	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/18/23 15:36	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/18/23 15:36	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/18/23 15:36	1
Acetone	3.7	U	10	3.7	ug/L			10/18/23 15:36	1
Benzene	0.27	U	1.0	0.27	ug/L			10/18/23 15:36	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/18/23 15:36	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/18/23 15:36	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/18/23 15:36	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/18/23 15:36	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/18/23 15:36	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/18/23 15:36	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/18/23 15:36	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/18/23 15:36	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/18/23 15:36	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/18/23 15:36	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/18/23 15:36	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/18/23 15:36	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/18/23 15:36	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/18/23 15:36	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/18/23 15:36	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/18/23 15:36	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-803294/8
Matrix: Water
Analysis Batch: 803294

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/18/23 15:36	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/18/23 15:36	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/18/23 15:36	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/18/23 15:36	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/18/23 15:36	1
Styrene	0.27	U	1.0	0.27	ug/L			10/18/23 15:36	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/18/23 15:36	1
Toluene	0.25	U	1.0	0.25	ug/L			10/18/23 15:36	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/18/23 15:36	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/18/23 15:36	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/18/23 15:36	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/18/23 15:36	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/18/23 15:36	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/18/23 15:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*60 - 124*		*10/18/23 15:36*	*1*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*10/18/23 15:36*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*10/18/23 15:36*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/18/23 15:36*	*1*

Lab Sample ID: LCS 680-803294/4
Matrix: Water
Analysis Batch: 803294

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	50.5		ug/L		101	70 - 130
1,1,2,2-Tetrachloroethane	50.0	48.0		ug/L		96	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	53.1		ug/L		106	63 - 141
1,1,2-Trichloroethane	50.0	49.9		ug/L		100	70 - 130
1,1-Dichloroethane	50.0	49.6		ug/L		99	70 - 130
1,1-Dichloroethene	50.0	53.3		ug/L		107	70 - 130
1,2,4-Trichlorobenzene	50.0	44.3		ug/L		89	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	40.6		ug/L		81	70 - 130
1,2-Dibromoethane (EDB)	50.0	50.9		ug/L		102	70 - 130
1,2-Dichlorobenzene	50.0	47.1		ug/L		94	70 - 130
1,2-Dichloroethane	50.0	48.4		ug/L		97	70 - 130
1,2-Dichloropropane	50.0	48.2		ug/L		96	70 - 130
1,3-Dichlorobenzene	50.0	47.5		ug/L		95	70 - 130
1,4-Dichlorobenzene	50.0	48.8		ug/L		98	70 - 130
2-Butanone (MEK)	250	199		ug/L		80	69 - 120
2-Hexanone	250	251		ug/L		100	70 - 130
4-Methyl-2-pentanone	250	222		ug/L		89	68 - 120
Acetone	250	218		ug/L		87	67 - 120
Benzene	50.0	48.9		ug/L		98	70 - 130
Bromodichloromethane	50.0	49.6		ug/L		99	70 - 130
Bromoform	50.0	41.9		ug/L		84	69 - 129
Bromomethane	50.0	56.7		ug/L		113	28 - 192

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-803294/4
Matrix: Water
Analysis Batch: 803294

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Carbon disulfide	50.0	52.9		ug/L		106	70 - 130
Carbon tetrachloride	50.0	48.9		ug/L		98	70 - 130
Chlorobenzene	50.0	49.1		ug/L		98	70 - 130
Chloroethane	50.0	50.3		ug/L		101	31 - 213
Chloroform	50.0	48.9		ug/L		98	70 - 130
Chloromethane	50.0	42.4		ug/L		85	59 - 127
cis-1,2-Dichloroethene	50.0	49.4		ug/L		99	70 - 130
cis-1,3-Dichloropropene	50.0	49.8		ug/L		100	70 - 130
Cyclohexane	50.0	50.9		ug/L		102	23 - 175
Dibromochloromethane	50.0	43.9		ug/L		88	70 - 130
Dichlorodifluoromethane	50.0	44.8		ug/L		90	70 - 130
Ethylbenzene	50.0	49.5		ug/L		99	70 - 130
Isopropylbenzene	50.0	49.7		ug/L		99	70 - 130
m,p-Xylenes	50.0	51.3		ug/L		103	70 - 130
Methyl acetate	100	96.5		ug/L		97	67 - 120
Methyl tert-butyl ether	50.0	44.8		ug/L		90	70 - 130
Methylene Chloride	50.0	48.8		ug/L		98	70 - 130
o-Xylene	50.0	50.3		ug/L		101	70 - 130
Styrene	50.0	49.6		ug/L		99	70 - 130
Tetrachloroethene	50.0	49.8		ug/L		100	70 - 130
Toluene	50.0	48.9		ug/L		98	70 - 130
trans-1,2-Dichloroethene	50.0	51.0		ug/L		102	70 - 130
trans-1,3-Dichloropropene	50.0	45.7		ug/L		91	70 - 130
Trichloroethene	50.0	49.1		ug/L		98	70 - 130
Trichlorofluoromethane	50.0	80.6	J3	ug/L		161	63 - 142
Vinyl chloride	50.0	46.6		ug/L		93	66 - 129
Xylenes, Total	100	102		ug/L		102	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 124*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*98*		*70 - 130*
Toluene-d8 (Surr)	*95*		*70 - 130*

Lab Sample ID: LCSD 680-803294/5
Matrix: Water
Analysis Batch: 803294

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	50.0	48.9		ug/L		98	70 - 130	3	30
1,1,2,2-Tetrachloroethane	50.0	47.3		ug/L		95	70 - 130	1	30
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	51.3		ug/L		103	63 - 141	4	30
1,1,2-Trichloroethane	50.0	48.8		ug/L		98	70 - 130	2	30
1,1-Dichloroethane	50.0	48.8		ug/L		98	70 - 130	2	30
1,1-Dichloroethene	50.0	51.4		ug/L		103	70 - 130	4	20
1,2,4-Trichlorobenzene	50.0	46.0		ug/L		92	70 - 130	4	30
1,2-Dibromo-3-Chloropropane	50.0	41.2		ug/L		82	70 - 130	1	30
1,2-Dibromoethane (EDB)	50.0	50.5		ug/L		101	70 - 130	1	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-803294/5
Matrix: Water
Analysis Batch: 803294

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dichlorobenzene			50.0	48.2		ug/L		96	70 - 130	2	30
1,2-Dichloroethane			50.0	47.8		ug/L		96	70 - 130	1	50
1,2-Dichloropropane			50.0	47.4		ug/L		95	70 - 130	2	20
1,3-Dichlorobenzene			50.0	48.6		ug/L		97	70 - 130	2	30
1,4-Dichlorobenzene			50.0	48.7		ug/L		97	70 - 130	0	30
2-Butanone (MEK)			250	199		ug/L		80	69 - 120	0	30
2-Hexanone			250	250		ug/L		100	70 - 130	0	20
4-Methyl-2-pentanone			250	219		ug/L		88	68 - 120	1	30
Acetone			250	214		ug/L		86	67 - 120	2	30
Benzene			50.0	48.1		ug/L		96	70 - 130	2	30
Bromodichloromethane			50.0	48.4		ug/L		97	70 - 130	2	30
Bromoform			50.0	41.8		ug/L		84	69 - 129	0	30
Bromomethane			50.0	55.8		ug/L		112	28 - 192	2	30
Carbon disulfide			50.0	52.0		ug/L		104	70 - 130	2	30
Carbon tetrachloride			50.0	47.8		ug/L		96	70 - 130	2	30
Chlorobenzene			50.0	49.1		ug/L		98	70 - 130	0	30
Chloroethane			50.0	50.1		ug/L		100	31 - 213	1	30
Chloroform			50.0	48.5		ug/L		97	70 - 130	1	30
Chloromethane			50.0	42.0		ug/L		84	59 - 127	1	30
cis-1,2-Dichloroethene			50.0	48.2		ug/L		96	70 - 130	3	30
cis-1,3-Dichloropropene			50.0	48.6		ug/L		97	70 - 130	2	20
Cyclohexane			50.0	49.6		ug/L		99	23 - 175	3	30
Dibromochloromethane			50.0	44.1		ug/L		88	70 - 130	0	30
Dichlorodifluoromethane			50.0	43.6		ug/L		87	70 - 130	3	40
Ethylbenzene			50.0	48.6		ug/L		97	70 - 130	2	20
Isopropylbenzene			50.0	48.9		ug/L		98	70 - 130	2	30
m,p-Xylenes			50.0	50.5		ug/L		101	70 - 130	2	30
Methyl acetate			100	98.1		ug/L		98	67 - 120	2	30
Methyl tert-butyl ether			50.0	44.4		ug/L		89	70 - 130	1	30
Methylene Chloride			50.0	47.6		ug/L		95	70 - 130	3	30
o-Xylene			50.0	49.4		ug/L		99	70 - 130	2	30
Styrene			50.0	49.5		ug/L		99	70 - 130	0	30
Tetrachloroethene			50.0	48.4		ug/L		97	70 - 130	3	30
Toluene			50.0	47.8		ug/L		96	70 - 130	2	30
trans-1,2-Dichloroethene			50.0	49.4		ug/L		99	70 - 130	3	30
trans-1,3-Dichloropropene			50.0	45.3		ug/L		91	70 - 130	1	30
Trichloroethene			50.0	49.0		ug/L		98	70 - 130	0	30
Trichlorofluoromethane			50.0	79.8	J3	ug/L		160	63 - 142	1	30
Vinyl chloride			50.0	46.0		ug/L		92	66 - 129	1	30
Xylenes, Total			100	99.9		ug/L		100	70 - 130	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*96*		*70 - 130*
Toluene-d8 (Surr)	*93*		*70 - 130*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-803455/8
Matrix: Water
Analysis Batch: 803455

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/19/23 12:20	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/19/23 12:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/19/23 12:20	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/19/23 12:20	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/19/23 12:20	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/19/23 12:20	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/19/23 12:20	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/19/23 12:20	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/19/23 12:20	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/19/23 12:20	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/19/23 12:20	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/19/23 12:20	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/19/23 12:20	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/19/23 12:20	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/19/23 12:20	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/19/23 12:20	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/19/23 12:20	1
Acetone	3.7	U	10	3.7	ug/L			10/19/23 12:20	1
Benzene	0.27	U	1.0	0.27	ug/L			10/19/23 12:20	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/19/23 12:20	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/19/23 12:20	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/19/23 12:20	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/19/23 12:20	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/19/23 12:20	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/19/23 12:20	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/19/23 12:20	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/19/23 12:20	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/19/23 12:20	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/19/23 12:20	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/19/23 12:20	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/19/23 12:20	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/19/23 12:20	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/19/23 12:20	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/19/23 12:20	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/19/23 12:20	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/19/23 12:20	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/19/23 12:20	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/19/23 12:20	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/19/23 12:20	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/19/23 12:20	1
Styrene	0.27	U	1.0	0.27	ug/L			10/19/23 12:20	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/19/23 12:20	1
Toluene	0.25	U	1.0	0.25	ug/L			10/19/23 12:20	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/19/23 12:20	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/19/23 12:20	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/19/23 12:20	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/19/23 12:20	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/19/23 12:20	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-803455/8
Matrix: Water
Analysis Batch: 803455

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/19/23 12:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 124*		*10/19/23 12:20*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/19/23 12:20*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*10/19/23 12:20*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/19/23 12:20*	*1*

Lab Sample ID: LCS 680-803455/4
Matrix: Water
Analysis Batch: 803455

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	51.0		ug/L		102	70 - 130
1,1,2,2-Tetrachloroethane	50.0	50.3		ug/L		101	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	51.2		ug/L		102	63 - 141
1,1,2-Trichloroethane	50.0	53.0		ug/L		106	70 - 130
1,1-Dichloroethane	50.0	50.8		ug/L		102	70 - 130
1,1-Dichloroethene	50.0	52.2		ug/L		104	70 - 130
1,2,4-Trichlorobenzene	50.0	45.7		ug/L		91	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	41.0		ug/L		82	70 - 130
1,2-Dibromoethane (EDB)	50.0	54.1		ug/L		108	70 - 130
1,2-Dichlorobenzene	50.0	49.4		ug/L		99	70 - 130
1,2-Dichloroethane	50.0	51.2		ug/L		102	70 - 130
1,2-Dichloropropane	50.0	50.4		ug/L		101	70 - 130
1,3-Dichlorobenzene	50.0	49.1		ug/L		98	70 - 130
1,4-Dichlorobenzene	50.0	49.7		ug/L		99	70 - 130
2-Butanone (MEK)	250	219		ug/L		88	69 - 120
2-Hexanone	250	272		ug/L		109	70 - 130
4-Methyl-2-pentanone	250	239		ug/L		95	68 - 120
Acetone	250	238		ug/L		95	67 - 120
Benzene	50.0	50.8		ug/L		102	70 - 130
Bromodichloromethane	50.0	52.0		ug/L		104	70 - 130
Bromoform	50.0	43.6		ug/L		87	69 - 129
Bromomethane	50.0	57.7		ug/L		115	28 - 192
Carbon disulfide	50.0	49.8		ug/L		100	70 - 130
Carbon tetrachloride	50.0	48.5		ug/L		97	70 - 130
Chlorobenzene	50.0	50.5		ug/L		101	70 - 130
Chloroethane	50.0	51.5		ug/L		103	31 - 213
Chloroform	50.0	50.9		ug/L		102	70 - 130
Chloromethane	50.0	41.6		ug/L		83	59 - 127
cis-1,2-Dichloroethene	50.0	51.1		ug/L		102	70 - 130
cis-1,3-Dichloropropene	50.0	53.6		ug/L		107	70 - 130
Cyclohexane	50.0	50.4		ug/L		101	23 - 175
Dibromochloromethane	50.0	46.9		ug/L		94	70 - 130
Dichlorodifluoromethane	50.0	47.2		ug/L		94	70 - 130
Ethylbenzene	50.0	50.3		ug/L		101	70 - 130
Isopropylbenzene	50.0	50.7		ug/L		101	70 - 130

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-803455/4
Matrix: Water
Analysis Batch: 803455

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
m,p-Xylenes	50.0	52.1		ug/L		104	70 - 130
Methyl acetate	100	99.1		ug/L		99	67 - 120
Methyl tert-butyl ether	50.0	46.8		ug/L		94	70 - 130
Methylene Chloride	50.0	49.9		ug/L		100	70 - 130
o-Xylene	50.0	50.9		ug/L		102	70 - 130
Styrene	50.0	51.8		ug/L		104	70 - 130
Tetrachloroethene	50.0	51.2		ug/L		102	70 - 130
Toluene	50.0	50.3		ug/L		101	70 - 130
trans-1,2-Dichloroethene	50.0	51.6		ug/L		103	70 - 130
trans-1,3-Dichloropropene	50.0	48.5		ug/L		97	70 - 130
Trichloroethene	50.0	50.8		ug/L		102	70 - 130
Trichlorofluoromethane	50.0	77.7	J3	ug/L		155	63 - 142
Vinyl chloride	50.0	44.8		ug/L		90	66 - 129
Xylenes, Total	100	103		ug/L		103	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*109*		*60 - 124*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
Dibromofluoromethane (Surr)	*103*		*70 - 130*
Toluene-d8 (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 680-803455/5
Matrix: Water
Analysis Batch: 803455

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	50.0	51.1		ug/L		102	70 - 130	0	30
1,1,2,2-Tetrachloroethane	50.0	49.8		ug/L		100	70 - 130	1	30
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	52.2		ug/L		104	63 - 141	2	30
1,1,2-Trichloroethane	50.0	51.2		ug/L		102	70 - 130	4	30
1,1-Dichloroethane	50.0	50.6		ug/L		101	70 - 130	0	30
1,1-Dichloroethene	50.0	53.3		ug/L		107	70 - 130	2	20
1,2,4-Trichlorobenzene	50.0	46.1		ug/L		92	70 - 130	1	30
1,2-Dibromo-3-Chloropropane	50.0	41.8		ug/L		84	70 - 130	2	30
1,2-Dibromoethane (EDB)	50.0	51.7		ug/L		103	70 - 130	5	30
1,2-Dichlorobenzene	50.0	48.7		ug/L		97	70 - 130	1	30
1,2-Dichloroethane	50.0	50.7		ug/L		101	70 - 130	1	50
1,2-Dichloropropane	50.0	49.1		ug/L		98	70 - 130	3	20
1,3-Dichlorobenzene	50.0	49.5		ug/L		99	70 - 130	1	30
1,4-Dichlorobenzene	50.0	50.0		ug/L		100	70 - 130	1	30
2-Butanone (MEK)	250	209		ug/L		83	69 - 120	5	30
2-Hexanone	250	261		ug/L		104	70 - 130	4	20
4-Methyl-2-pentanone	250	228		ug/L		91	68 - 120	5	30
Acetone	250	231		ug/L		92	67 - 120	3	30
Benzene	50.0	50.2		ug/L		100	70 - 130	1	30
Bromodichloromethane	50.0	51.1		ug/L		102	70 - 130	2	30
Bromoform	50.0	43.6		ug/L		87	69 - 129	0	30
Bromomethane	50.0	58.5		ug/L		117	28 - 192	1	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-803455/5
Matrix: Water
Analysis Batch: 803455

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon disulfide	50.0	51.0		ug/L		102	70 - 130	3	30
Carbon tetrachloride	50.0	48.5		ug/L		97	70 - 130	0	30
Chlorobenzene	50.0	51.1		ug/L		102	70 - 130	1	30
Chloroethane	50.0	49.4		ug/L		99	31 - 213	4	30
Chloroform	50.0	50.8		ug/L		102	70 - 130	0	30
Chloromethane	50.0	42.0		ug/L		84	59 - 127	1	30
cis-1,2-Dichloroethene	50.0	50.8		ug/L		102	70 - 130	1	30
cis-1,3-Dichloropropene	50.0	51.7		ug/L		103	70 - 130	4	20
Cyclohexane	50.0	50.4		ug/L		101	23 - 175	0	30
Dibromochloromethane	50.0	45.9		ug/L		92	70 - 130	2	30
Dichlorodifluoromethane	50.0	48.7		ug/L		97	70 - 130	3	40
Ethylbenzene	50.0	51.2		ug/L		102	70 - 130	2	20
Isopropylbenzene	50.0	51.3		ug/L		103	70 - 130	1	30
m,p-Xylenes	50.0	52.3		ug/L		105	70 - 130	0	30
Methyl acetate	100	97.5		ug/L		98	67 - 120	2	30
Methyl tert-butyl ether	50.0	45.7		ug/L		91	70 - 130	2	30
Methylene Chloride	50.0	49.9		ug/L		100	70 - 130	0	30
o-Xylene	50.0	52.2		ug/L		104	70 - 130	3	30
Styrene	50.0	52.4		ug/L		105	70 - 130	1	30
Tetrachloroethene	50.0	50.5		ug/L		101	70 - 130	1	30
Toluene	50.0	49.8		ug/L		100	70 - 130	1	30
trans-1,2-Dichloroethene	50.0	51.4		ug/L		103	70 - 130	0	30
trans-1,3-Dichloropropene	50.0	47.6		ug/L		95	70 - 130	2	30
Trichloroethene	50.0	49.8		ug/L		100	70 - 130	2	30
Trichlorofluoromethane	50.0	78.3	J3	ug/L		157	63 - 142	1	30
Vinyl chloride	50.0	45.3		ug/L		91	66 - 129	1	30
Xylenes, Total	100	105		ug/L		105	70 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 124*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*97*		*70 - 130*

Lab Sample ID: MB 680-803472/9
Matrix: Water
Analysis Batch: 803472

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/19/23 12:40	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/19/23 12:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/19/23 12:40	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/19/23 12:40	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/19/23 12:40	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/19/23 12:40	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/19/23 12:40	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/19/23 12:40	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/19/23 12:40	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-803472/9
Matrix: Water
Analysis Batch: 803472

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/19/23 12:40	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/19/23 12:40	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/19/23 12:40	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/19/23 12:40	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/19/23 12:40	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/19/23 12:40	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/19/23 12:40	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/19/23 12:40	1
Acetone	3.7	U	10	3.7	ug/L			10/19/23 12:40	1
Benzene	0.27	U	1.0	0.27	ug/L			10/19/23 12:40	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/19/23 12:40	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/19/23 12:40	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/19/23 12:40	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/19/23 12:40	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/19/23 12:40	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/19/23 12:40	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/19/23 12:40	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/19/23 12:40	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/19/23 12:40	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/19/23 12:40	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/19/23 12:40	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/19/23 12:40	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/19/23 12:40	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/19/23 12:40	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/19/23 12:40	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/19/23 12:40	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/19/23 12:40	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/19/23 12:40	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/19/23 12:40	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/19/23 12:40	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/19/23 12:40	1
Styrene	0.27	U	1.0	0.27	ug/L			10/19/23 12:40	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/19/23 12:40	1
Toluene	0.25	U	1.0	0.25	ug/L			10/19/23 12:40	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/19/23 12:40	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/19/23 12:40	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/19/23 12:40	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/19/23 12:40	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/19/23 12:40	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/19/23 12:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*		*10/19/23 12:40*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*10/19/23 12:40*	*1*
Dibromofluoromethane (Surr)	*107*		*70 - 130*		*10/19/23 12:40*	*1*
Toluene-d8 (Surr)	*108*		*70 - 130*		*10/19/23 12:40*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-803472/5
Matrix: Water
Analysis Batch: 803472

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	55.6		ug/L		111	70 - 130
1,1,2,2-Tetrachloroethane	50.0	59.8		ug/L		120	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	48.8		ug/L		98	63 - 141
1,1,2-Trichloroethane	50.0	59.2		ug/L		118	70 - 130
1,1-Dichloroethane	50.0	54.2		ug/L		108	70 - 130
1,1-Dichloroethene	50.0	52.8		ug/L		106	70 - 130
1,2,4-Trichlorobenzene	50.0	56.1		ug/L		112	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	63.7		ug/L		127	70 - 130
1,2-Dibromoethane (EDB)	50.0	53.1		ug/L		106	70 - 130
1,2-Dichlorobenzene	50.0	55.2		ug/L		110	70 - 130
1,2-Dichloroethane	50.0	53.1		ug/L		106	70 - 130
1,2-Dichloropropane	50.0	55.6		ug/L		111	70 - 130
1,3-Dichlorobenzene	50.0	53.3		ug/L		107	70 - 130
1,4-Dichlorobenzene	50.0	53.3		ug/L		107	70 - 130
2-Butanone (MEK)	250	249		ug/L		100	69 - 120
2-Hexanone	250	285		ug/L		114	70 - 130
4-Methyl-2-pentanone	250	287		ug/L		115	68 - 120
Acetone	250	250		ug/L		100	67 - 120
Benzene	50.0	52.2		ug/L		104	70 - 130
Bromodichloromethane	50.0	51.6		ug/L		103	70 - 130
Bromoform	50.0	52.0		ug/L		104	69 - 129
Bromomethane	50.0	51.3		ug/L		103	28 - 192
Carbon disulfide	50.0	52.9		ug/L		106	70 - 130
Carbon tetrachloride	50.0	56.0		ug/L		112	70 - 130
Chlorobenzene	50.0	51.3		ug/L		103	70 - 130
Chloroethane	50.0	48.4		ug/L		97	31 - 213
Chloroform	50.0	47.1		ug/L		94	70 - 130
Chloromethane	50.0	70.8	J3	ug/L		142	59 - 127
cis-1,2-Dichloroethene	50.0	53.1		ug/L		106	70 - 130
cis-1,3-Dichloropropene	50.0	60.5		ug/L		121	70 - 130
Cyclohexane	50.0	56.2		ug/L		112	23 - 175
Dibromochloromethane	50.0	55.2		ug/L		110	70 - 130
Dichlorodifluoromethane	50.0	46.1		ug/L		92	70 - 130
Ethylbenzene	50.0	53.5		ug/L		107	70 - 130
Isopropylbenzene	50.0	53.2		ug/L		106	70 - 130
m,p-Xylenes	50.0	51.7		ug/L		103	70 - 130
Methyl acetate	100	106		ug/L		106	67 - 120
Methyl tert-butyl ether	50.0	53.6		ug/L		107	70 - 130
Methylene Chloride	50.0	52.2		ug/L		104	70 - 130
o-Xylene	50.0	51.6		ug/L		103	70 - 130
Styrene	50.0	50.9		ug/L		102	70 - 130
Tetrachloroethene	50.0	56.0		ug/L		112	70 - 130
Toluene	50.0	53.2		ug/L		106	70 - 130
trans-1,2-Dichloroethene	50.0	59.9		ug/L		120	70 - 130
trans-1,3-Dichloropropene	50.0	54.8		ug/L		110	70 - 130
Trichloroethene	50.0	54.7		ug/L		109	70 - 130
Trichlorofluoromethane	50.0	43.6		ug/L		87	63 - 142
Vinyl chloride	50.0	49.9		ug/L		100	66 - 129

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-803472/5
Matrix: Water
Analysis Batch: 803472

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Xylenes, Total			100	103		ug/L		103	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 124*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
Dibromofluoromethane (Surr)	*104*		*70 - 130*
Toluene-d8 (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 680-803472/6
Matrix: Water
Analysis Batch: 803472

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane			50.0	55.3		ug/L		111	70 - 130	1	30
1,1,2,2-Tetrachloroethane			50.0	59.9		ug/L		120	70 - 130	0	30
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	47.6		ug/L		95	63 - 141	2	30
1,1,2-Trichloroethane			50.0	60.3		ug/L		121	70 - 130	2	30
1,1-Dichloroethane			50.0	53.7		ug/L		107	70 - 130	1	30
1,1-Dichloroethene			50.0	44.7		ug/L		89	70 - 130	17	20
1,2,4-Trichlorobenzene			50.0	55.8		ug/L		112	70 - 130	1	30
1,2-Dibromo-3-Chloropropane			50.0	62.5		ug/L		125	70 - 130	2	30
1,2-Dibromoethane (EDB)			50.0	54.0		ug/L		108	70 - 130	2	30
1,2-Dichlorobenzene			50.0	54.9		ug/L		110	70 - 130	0	30
1,2-Dichloroethane			50.0	53.8		ug/L		108	70 - 130	1	50
1,2-Dichloropropane			50.0	55.7		ug/L		111	70 - 130	0	20
1,3-Dichlorobenzene			50.0	53.1		ug/L		106	70 - 130	0	30
1,4-Dichlorobenzene			50.0	51.1		ug/L		102	70 - 130	4	30
2-Butanone (MEK)			250	257		ug/L		103	69 - 120	3	30
2-Hexanone			250	292		ug/L		117	70 - 130	3	20
4-Methyl-2-pentanone			250	299		ug/L		119	68 - 120	4	30
Acetone			250	269		ug/L		107	67 - 120	7	30
Benzene			50.0	52.6		ug/L		105	70 - 130	1	30
Bromodichloromethane			50.0	51.3		ug/L		103	70 - 130	1	30
Bromoform			50.0	54.8		ug/L		110	69 - 129	5	30
Bromomethane			50.0	51.4		ug/L		103	28 - 192	0	30
Carbon disulfide			50.0	50.9		ug/L		102	70 - 130	4	30
Carbon tetrachloride			50.0	55.8		ug/L		112	70 - 130	0	30
Chlorobenzene			50.0	53.5		ug/L		107	70 - 130	4	30
Chloroethane			50.0	47.2		ug/L		94	31 - 213	2	30
Chloroform			50.0	48.0		ug/L		96	70 - 130	2	30
Chloromethane			50.0	68.5	J3	ug/L		137	59 - 127	3	30
cis-1,2-Dichloroethene			50.0	50.9		ug/L		102	70 - 130	4	30
cis-1,3-Dichloropropene			50.0	60.0		ug/L		120	70 - 130	1	20
Cyclohexane			50.0	54.7		ug/L		109	23 - 175	3	30
Dibromochloromethane			50.0	55.8		ug/L		112	70 - 130	1	30
Dichlorodifluoromethane			50.0	43.2		ug/L		86	70 - 130	6	40
Ethylbenzene			50.0	55.2		ug/L		110	70 - 130	3	20
Isopropylbenzene			50.0	55.4		ug/L		111	70 - 130	4	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-803472/6
Matrix: Water
Analysis Batch: 803472

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m,p-Xylenes			50.0	53.0		ug/L		106	70 - 130	2	30
Methyl acetate			100	105		ug/L		105	67 - 120	1	30
Methyl tert-butyl ether			50.0	55.2		ug/L		110	70 - 130	3	30
Methylene Chloride			50.0	54.2		ug/L		108	70 - 130	4	30
o-Xylene			50.0	54.4		ug/L		109	70 - 130	5	30
Styrene			50.0	52.7		ug/L		105	70 - 130	3	30
Tetrachloroethene			50.0	54.7		ug/L		109	70 - 130	2	30
Toluene			50.0	53.6		ug/L		107	70 - 130	1	30
trans-1,2-Dichloroethene			50.0	51.9		ug/L		104	70 - 130	14	30
trans-1,3-Dichloropropene			50.0	56.1		ug/L		112	70 - 130	2	30
Trichloroethene			50.0	52.7		ug/L		105	70 - 130	4	30
Trichlorofluoromethane			50.0	46.7		ug/L		93	63 - 142	7	30
Vinyl chloride			50.0	47.6		ug/L		95	66 - 129	5	30
Xylenes, Total			100	107		ug/L		107	70 - 130	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*107*		*60 - 124*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
Dibromofluoromethane (Surr)	*103*		*70 - 130*
Toluene-d8 (Surr)	*105*		*70 - 130*

Lab Sample ID: MB 680-803626/7
Matrix: Water
Analysis Batch: 803626

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/19/23 22:47	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/19/23 22:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/19/23 22:47	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/19/23 22:47	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/19/23 22:47	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/19/23 22:47	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/19/23 22:47	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/19/23 22:47	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/19/23 22:47	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/19/23 22:47	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/19/23 22:47	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/19/23 22:47	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/19/23 22:47	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/19/23 22:47	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/19/23 22:47	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/19/23 22:47	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/19/23 22:47	1
Acetone	3.7	U	10	3.7	ug/L			10/19/23 22:47	1
Benzene	0.27	U	1.0	0.27	ug/L			10/19/23 22:47	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/19/23 22:47	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/19/23 22:47	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/19/23 22:47	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-803626/7
Matrix: Water
Analysis Batch: 803626

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/19/23 22:47	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/19/23 22:47	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/19/23 22:47	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/19/23 22:47	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/19/23 22:47	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/19/23 22:47	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/19/23 22:47	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/19/23 22:47	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/19/23 22:47	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/19/23 22:47	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/19/23 22:47	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/19/23 22:47	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/19/23 22:47	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/19/23 22:47	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/19/23 22:47	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/19/23 22:47	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/19/23 22:47	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/19/23 22:47	1
Styrene	0.27	U	1.0	0.27	ug/L			10/19/23 22:47	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/19/23 22:47	1
Toluene	0.25	U	1.0	0.25	ug/L			10/19/23 22:47	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/19/23 22:47	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/19/23 22:47	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/19/23 22:47	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/19/23 22:47	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/19/23 22:47	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/19/23 22:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 124*		*10/19/23 22:47*	*1*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*10/19/23 22:47*	*1*
Dibromofluoromethane (Surr)	*105*		*70 - 130*		*10/19/23 22:47*	*1*
Toluene-d8 (Surr)	*112*		*70 - 130*		*10/19/23 22:47*	*1*

Lab Sample ID: LCS 680-803626/4
Matrix: Water
Analysis Batch: 803626

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	52.0		ug/L		104	70 - 130
1,1,2,2-Tetrachloroethane	50.0	52.6		ug/L		105	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	47.0		ug/L		94	63 - 141
1,1,2-Trichloroethane	50.0	52.6		ug/L		105	70 - 130
1,1-Dichloroethane	50.0	51.9		ug/L		104	70 - 130
1,1-Dichloroethene	50.0	49.6		ug/L		99	70 - 130
1,2,4-Trichlorobenzene	50.0	50.2		ug/L		100	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	57.5		ug/L		115	70 - 130
1,2-Dibromoethane (EDB)	50.0	48.5		ug/L		97	70 - 130

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-803626/4
Matrix: Water
Analysis Batch: 803626

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichlorobenzene	50.0	49.1		ug/L		98	70 - 130
1,2-Dichloroethane	50.0	51.6		ug/L		103	70 - 130
1,2-Dichloropropane	50.0	51.7		ug/L		103	70 - 130
1,3-Dichlorobenzene	50.0	47.1		ug/L		94	70 - 130
1,4-Dichlorobenzene	50.0	46.9		ug/L		94	70 - 130
2-Butanone (MEK)	250	245		ug/L		98	69 - 120
2-Hexanone	250	245		ug/L		98	70 - 130
4-Methyl-2-pentanone	250	248		ug/L		99	68 - 120
Acetone	250	256		ug/L		103	67 - 120
Benzene	50.0	49.1		ug/L		98	70 - 130
Bromodichloromethane	50.0	48.2		ug/L		96	70 - 130
Bromoform	50.0	50.0		ug/L		100	69 - 129
Bromomethane	50.0	39.3		ug/L		79	28 - 192
Carbon disulfide	50.0	49.1		ug/L		98	70 - 130
Carbon tetrachloride	50.0	54.2		ug/L		108	70 - 130
Chlorobenzene	50.0	48.8		ug/L		98	70 - 130
Chloroethane	50.0	46.5		ug/L		93	31 - 213
Chloroform	50.0	44.3		ug/L		89	70 - 130
Chloromethane	50.0	45.1		ug/L		90	59 - 127
cis-1,2-Dichloroethene	50.0	52.0		ug/L		104	70 - 130
cis-1,3-Dichloropropene	50.0	54.1		ug/L		108	70 - 130
Cyclohexane	50.0	53.5		ug/L		107	23 - 175
Dibromochloromethane	50.0	49.3		ug/L		99	70 - 130
Dichlorodifluoromethane	50.0	41.8		ug/L		84	70 - 130
Ethylbenzene	50.0	49.8		ug/L		100	70 - 130
Isopropylbenzene	50.0	50.5		ug/L		101	70 - 130
m,p-Xylenes	50.0	46.6		ug/L		93	70 - 130
Methyl acetate	100	97.7		ug/L		98	67 - 120
Methyl tert-butyl ether	50.0	51.5		ug/L		103	70 - 130
Methylene Chloride	50.0	51.1		ug/L		102	70 - 130
o-Xylene	50.0	48.8		ug/L		98	70 - 130
Styrene	50.0	47.4		ug/L		95	70 - 130
Tetrachloroethene	50.0	50.4		ug/L		101	70 - 130
Toluene	50.0	46.9		ug/L		94	70 - 130
trans-1,2-Dichloroethene	50.0	56.5		ug/L		113	70 - 130
trans-1,3-Dichloropropene	50.0	49.7		ug/L		99	70 - 130
Trichloroethene	50.0	48.8		ug/L		98	70 - 130
Trichlorofluoromethane	50.0	45.8		ug/L		92	63 - 142
Vinyl chloride	50.0	46.3		ug/L		93	66 - 129
Xylenes, Total	100	95.4		ug/L		95	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
Dibromofluoromethane (Surr)	*98*		*70 - 130*
Toluene-d8 (Surr)	*96*		*70 - 130*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-803626/5
Matrix: Water
Analysis Batch: 803626

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	50.0	51.5		ug/L		103	70 - 130	1	30
1,1,2,2-Tetrachloroethane	50.0	54.2		ug/L		108	70 - 130	3	30
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	47.7		ug/L		95	63 - 141	1	30
1,1,2-Trichloroethane	50.0	53.7		ug/L		107	70 - 130	2	30
1,1-Dichloroethane	50.0	51.5		ug/L		103	70 - 130	1	30
1,1-Dichloroethene	50.0	49.9		ug/L		100	70 - 130	1	20
1,2,4-Trichlorobenzene	50.0	50.1		ug/L		100	70 - 130	0	30
1,2-Dibromo-3-Chloropropane	50.0	58.2		ug/L		116	70 - 130	1	30
1,2-Dibromoethane (EDB)	50.0	48.3		ug/L		97	70 - 130	0	30
1,2-Dichlorobenzene	50.0	51.7		ug/L		103	70 - 130	5	30
1,2-Dichloroethane	50.0	51.4		ug/L		103	70 - 130	0	50
1,2-Dichloropropane	50.0	50.0		ug/L		100	70 - 130	3	20
1,3-Dichlorobenzene	50.0	48.0		ug/L		96	70 - 130	2	30
1,4-Dichlorobenzene	50.0	48.5		ug/L		97	70 - 130	3	30
2-Butanone (MEK)	250	251		ug/L		100	69 - 120	2	30
2-Hexanone	250	251		ug/L		100	70 - 130	2	20
4-Methyl-2-pentanone	250	259		ug/L		104	68 - 120	4	30
Acetone	250	260		ug/L		104	67 - 120	1	30
Benzene	50.0	48.8		ug/L		98	70 - 130	1	30
Bromodichloromethane	50.0	47.4		ug/L		95	70 - 130	2	30
Bromoform	50.0	49.5		ug/L		99	69 - 129	1	30
Bromomethane	50.0	42.6		ug/L		85	28 - 192	8	30
Carbon disulfide	50.0	49.5		ug/L		99	70 - 130	1	30
Carbon tetrachloride	50.0	51.0		ug/L		102	70 - 130	6	30
Chlorobenzene	50.0	48.9		ug/L		98	70 - 130	0	30
Chloroethane	50.0	44.9		ug/L		90	31 - 213	3	30
Chloroform	50.0	44.3		ug/L		89	70 - 130	0	30
Chloromethane	50.0	48.2		ug/L		96	59 - 127	6	30
cis-1,2-Dichloroethene	50.0	48.3		ug/L		97	70 - 130	7	30
cis-1,3-Dichloropropene	50.0	55.1		ug/L		110	70 - 130	2	20
Cyclohexane	50.0	50.8		ug/L		102	23 - 175	5	30
Dibromochloromethane	50.0	49.2		ug/L		98	70 - 130	0	30
Dichlorodifluoromethane	50.0	42.5		ug/L		85	70 - 130	2	40
Ethylbenzene	50.0	48.6		ug/L		97	70 - 130	2	20
Isopropylbenzene	50.0	49.5		ug/L		99	70 - 130	2	30
m,p-Xylenes	50.0	49.6		ug/L		99	70 - 130	6	30
Methyl acetate	100	101		ug/L		101	67 - 120	4	30
Methyl tert-butyl ether	50.0	52.1		ug/L		104	70 - 130	1	30
Methylene Chloride	50.0	51.2		ug/L		102	70 - 130	0	30
o-Xylene	50.0	49.7		ug/L		99	70 - 130	2	30
Styrene	50.0	48.3		ug/L		97	70 - 130	2	30
Tetrachloroethene	50.0	48.5		ug/L		97	70 - 130	4	30
Toluene	50.0	47.8		ug/L		96	70 - 130	2	30
trans-1,2-Dichloroethene	50.0	55.6		ug/L		111	70 - 130	2	30
trans-1,3-Dichloropropene	50.0	51.2		ug/L		102	70 - 130	3	30
Trichloroethene	50.0	50.1		ug/L		100	70 - 130	3	30
Trichlorofluoromethane	50.0	46.2		ug/L		92	63 - 142	1	30
Vinyl chloride	50.0	44.7		ug/L		89	66 - 129	4	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-803626/5
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 803626

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Xylenes, Total			100	99.3		ug/L		99	70 - 130	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 124*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*
Dibromofluoromethane (Surr)	*99*		*70 - 130*
Toluene-d8 (Surr)	*95*		*70 - 130*

GC/MS VOA

Analysis Batch: 802973

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-28390-23	LC34-DPT0973-034.0-20231010	Total/NA	Water	8260D	
670-28390-24	LC34-DPT0973-038.0-20231010	Total/NA	Water	8260D	
670-28390-25	LC34-DPT0974-008.0-20231010	Total/NA	Water	8260D	
MB 680-802973/9	Method Blank	Total/NA	Water	8260D	
LCS 680-802973/5	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-802973/6	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 802997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-28390-19	LC34-DPT0973-008.0-20231010	Total/NA	Water	8260D	
670-28390-20	LC34-DPT0973-013.0-20231010	Total/NA	Water	8260D	
670-28390-21	LC34-DPT0973-018.0-20231010	Total/NA	Water	8260D	
670-28390-22	LC34-DPT0973-025.0-20231010	Total/NA	Water	8260D	
670-28390-26	LC34-DPT0974-013.0-20231010	Total/NA	Water	8260D	
670-28390-27	LC34-DPT0974-018.0-20231010	Total/NA	Water	8260D	
670-28390-27 - DL	LC34-DPT0974-018.0-20231010	Total/NA	Water	8260D	
670-28390-28	LC34-DPT0974-025.0-20231010	Total/NA	Water	8260D	
670-28390-29	LC34-DPT0974-034.0-20231010	Total/NA	Water	8260D	
670-28390-30	LC34-DPT0974-038.0-20231010	Total/NA	Water	8260D	
670-28390-31	LC34-DPT0975-008.0-20231010	Total/NA	Water	8260D	
670-28390-32	LC34-DPT0975-013.0-20231010	Total/NA	Water	8260D	
670-28390-33	LC34-DPT0975-018.0-20231010	Total/NA	Water	8260D	
670-28390-34	LC34-DPT0975-025.0-20231010	Total/NA	Water	8260D	
670-28390-35	LC34-DPT0975-034.0-20231010	Total/NA	Water	8260D	
670-28390-36	LC34-DPT0975-038.0-20231010	Total/NA	Water	8260D	
MB 680-802997/9	Method Blank	Total/NA	Water	8260D	
LCS 680-802997/5	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-802997/6	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 803189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-28390-1	LC34-DPT0970-008.0-20231009	Total/NA	Water	8260D	
670-28390-2	LC34-DPT0970-013.0-20231009	Total/NA	Water	8260D	
670-28390-3	LC34-DPT0970-018.0-20231009	Total/NA	Water	8260D	
670-28390-3 - DL	LC34-DPT0970-018.0-20231009	Total/NA	Water	8260D	
670-28390-4	LC34-DPT0970-025.0-20231009	Total/NA	Water	8260D	
670-28390-5	LC34-DPT0970-034.0-20231009	Total/NA	Water	8260D	
670-28390-7	LC34-DPT0971-008.0-20231009	Total/NA	Water	8260D	
670-28390-10	LC34-DPT0971-025.0-20231009	Total/NA	Water	8260D	
670-28390-12	LC34-DPT0971-038.0-20231009	Total/NA	Water	8260D	
670-28390-14	LC34-DPT0972-013.0-20231009	Total/NA	Water	8260D	
670-28390-15	LC34-DPT0972-018.0-20231009	Total/NA	Water	8260D	
670-28390-16	LC34-DPT0972-025.0-20231009	Total/NA	Water	8260D	
670-28390-18	LC34-DPT0972-038.0-20231009	Total/NA	Water	8260D	
MB 680-803189/10	Method Blank	Total/NA	Water	8260D	
LCS 680-803189/6	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-803189/7	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 803294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-28390-6	LC34-DPT0970-038.0-20231009	Total/NA	Water	8260D	

GC/MS VOA (Continued)

Analysis Batch: 803294 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-28390-9	LC34-DPT0971-018.0-20231009	Total/NA	Water	8260D	
MB 680-803294/8	Method Blank	Total/NA	Water	8260D	
LCS 680-803294/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-803294/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 803455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-28390-4	LC34-DPT0970-025.0-20231009	Total/NA	Water	8260D	
670-28390-7	LC34-DPT0971-008.0-20231009	Total/NA	Water	8260D	
670-28390-8	LC34-DPT0971-013.0-20231009	Total/NA	Water	8260D	
670-28390-12	LC34-DPT0971-038.0-20231009	Total/NA	Water	8260D	
MB 680-803455/8	Method Blank	Total/NA	Water	8260D	
LCS 680-803455/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-803455/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 803472

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-28390-17	LC34-DPT0972-034.0-20231009	Total/NA	Water	8260D	
MB 680-803472/9	Method Blank	Total/NA	Water	8260D	
LCS 680-803472/5	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-803472/6	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 803626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-28390-11	LC34-DPT0971-034.0-20231009	Total/NA	Water	8260D	
670-28390-13	LC34-DPT0972-008.0-20231009	Total/NA	Water	8260D	
MB 680-803626/7	Method Blank	Total/NA	Water	8260D	
LCS 680-803626/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-803626/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Lab Chronicle

Client: Tetra Tech, Inc.
Job ID: 670-28390-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT0970-008.0-20231009
Lab Sample ID: 670-28390-1
Date Collected: 10/09/23 09:20
Matrix: Water
Date Received: 10/11/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	803189	Y1S	EET SAV	10/18/23 13:07

Client Sample ID: LC34-DPT0970-013.0-20231009
Lab Sample ID: 670-28390-2
Date Collected: 10/09/23 09:35
Matrix: Water
Date Received: 10/11/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	803189	Y1S	EET SAV	10/18/23 13:26

Client Sample ID: LC34-DPT0970-018.0-20231009
Lab Sample ID: 670-28390-3
Date Collected: 10/09/23 09:50
Matrix: Water
Date Received: 10/11/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	803189	Y1S	EET SAV	10/18/23 13:45
Total/NA	Analysis	8260D	DL	100	803189	Y1S	EET SAV	10/18/23 18:28

Client Sample ID: LC34-DPT0970-025.0-20231009
Lab Sample ID: 670-28390-4
Date Collected: 10/09/23 10:05
Matrix: Water
Date Received: 10/11/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		250	803455	MLL	EET SAV	10/19/23 15:59
Total/NA	Analysis	8260D		100	803189	Y1S	EET SAV	10/18/23 18:47

Client Sample ID: LC34-DPT0970-034.0-20231009
Lab Sample ID: 670-28390-5
Date Collected: 10/09/23 10:25
Matrix: Water
Date Received: 10/11/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		200	803189	Y1S	EET SAV	10/18/23 18:09

Client Sample ID: LC34-DPT0970-038.0-20231009
Lab Sample ID: 670-28390-6
Date Collected: 10/09/23 10:45
Matrix: Water
Date Received: 10/11/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		50	803294	P1C	EET SAV	10/18/23 19:37

Client Sample ID: LC34-DPT0971-008.0-20231009
Lab Sample ID: 670-28390-7
Date Collected: 10/09/23 11:20
Matrix: Water
Date Received: 10/11/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	803455	MLL	EET SAV	10/19/23 12:50
Total/NA	Analysis	8260D		1	803189	Y1S	EET SAV	10/18/23 15:18

Lab Chronicle

Client: Tetra Tech, Inc.
Job ID: 670-28390-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT0971-013.0-20231009
Lab Sample ID: 670-28390-8
Date Collected: 10/09/23 11:35
Matrix: Water
Date Received: 10/11/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	803455	MLL	EET SAV	10/19/23 13:28

Client Sample ID: LC34-DPT0971-018.0-20231009
Lab Sample ID: 670-28390-9
Date Collected: 10/09/23 11:50
Matrix: Water
Date Received: 10/11/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		5	803294	P1C	EET SAV	10/18/23 20:20

Client Sample ID: LC34-DPT0971-025.0-20231009
Lab Sample ID: 670-28390-10
Date Collected: 10/09/23 12:10
Matrix: Water
Date Received: 10/11/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		250	803189	Y1S	EET SAV	10/18/23 17:50

Client Sample ID: LC34-DPT0971-034.0-20231009
Lab Sample ID: 670-28390-11
Date Collected: 10/09/23 12:35
Matrix: Water
Date Received: 10/11/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		25	803626	P1C	EET SAV	10/19/23 23:49

Client Sample ID: LC34-DPT0971-038.0-20231009
Lab Sample ID: 670-28390-12
Date Collected: 10/09/23 13:00
Matrix: Water
Date Received: 10/11/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	803455	MLL	EET SAV	10/19/23 13:09
Total/NA	Analysis	8260D		1	803189	Y1S	EET SAV	10/18/23 15:56

Client Sample ID: LC34-DPT0972-008.0-20231009
Lab Sample ID: 670-28390-13
Date Collected: 10/09/23 14:35
Matrix: Water
Date Received: 10/11/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		2	803626	P1C	EET SAV	10/20/23 00:29

Client Sample ID: LC34-DPT0972-013.0-20231009
Lab Sample ID: 670-28390-14
Date Collected: 10/09/23 14:50
Matrix: Water
Date Received: 10/11/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	803189	Y1S	EET SAV	10/18/23 16:15

Lab Chronicle

Client: Tetra Tech, Inc.
Job ID: 670-28390-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT0972-018.0-20231009
Lab Sample ID: 670-28390-15
Date Collected: 10/09/23 15:05
Matrix: Water
Date Received: 10/11/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	803189	Y1S	EET SAV	10/18/23 16:34

Client Sample ID: LC34-DPT0972-025.0-20231009
Lab Sample ID: 670-28390-16
Date Collected: 10/09/23 15:20
Matrix: Water
Date Received: 10/11/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	803189	Y1S	EET SAV	10/18/23 16:53

Client Sample ID: LC34-DPT0972-034.0-20231009
Lab Sample ID: 670-28390-17
Date Collected: 10/09/23 15:40
Matrix: Water
Date Received: 10/11/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	803472	P1C	EET SAV	10/19/23 13:20

Client Sample ID: LC34-DPT0972-038.0-20231009
Lab Sample ID: 670-28390-18
Date Collected: 10/09/23 16:00
Matrix: Water
Date Received: 10/11/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	803189	Y1S	EET SAV	10/18/23 17:31

Client Sample ID: LC34-DPT0973-008.0-20231010
Lab Sample ID: 670-28390-19
Date Collected: 10/10/23 07:35
Matrix: Water
Date Received: 10/11/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	802997	Y1S	EET SAV	10/17/23 19:12

Client Sample ID: LC34-DPT0973-013.0-20231010
Lab Sample ID: 670-28390-20
Date Collected: 10/10/23 07:50
Matrix: Water
Date Received: 10/11/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	802997	Y1S	EET SAV	10/17/23 19:31

Client Sample ID: LC34-DPT0973-018.0-20231010
Lab Sample ID: 670-28390-21
Date Collected: 10/10/23 08:10
Matrix: Water
Date Received: 10/11/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	802997	Y1S	EET SAV	10/17/23 19:50

Lab Chronicle

Client: Tetra Tech, Inc.
Job ID: 670-28390-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT0973-025.0-20231010
Lab Sample ID: 670-28390-22
Date Collected: 10/10/23 08:25
Matrix: Water
Date Received: 10/11/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	802997	Y1S	EET SAV	10/17/23 20:09

Client Sample ID: LC34-DPT0973-034.0-20231010
Lab Sample ID: 670-28390-23
Date Collected: 10/10/23 08:40
Matrix: Water
Date Received: 10/11/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	802973	Y1S	EET SAV	10/17/23 19:15

Client Sample ID: LC34-DPT0973-038.0-20231010
Lab Sample ID: 670-28390-24
Date Collected: 10/10/23 09:00
Matrix: Water
Date Received: 10/11/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	802973	Y1S	EET SAV	10/17/23 19:35

Client Sample ID: LC34-DPT0974-008.0-20231010
Lab Sample ID: 670-28390-25
Date Collected: 10/10/23 09:35
Matrix: Water
Date Received: 10/11/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	802973	Y1S	EET SAV	10/17/23 19:54

Client Sample ID: LC34-DPT0974-013.0-20231010
Lab Sample ID: 670-28390-26
Date Collected: 10/10/23 09:45
Matrix: Water
Date Received: 10/11/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	802997	Y1S	EET SAV	10/17/23 15:21

Client Sample ID: LC34-DPT0974-018.0-20231010
Lab Sample ID: 670-28390-27
Date Collected: 10/10/23 10:00
Matrix: Water
Date Received: 10/11/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	802997	Y1S	EET SAV	10/17/23 15:40
Total/NA	Analysis	8260D	DL	2	802997	Y1S	EET SAV	10/17/23 18:15

Client Sample ID: LC34-DPT0974-025.0-20231010
Lab Sample ID: 670-28390-28
Date Collected: 10/10/23 10:15
Matrix: Water
Date Received: 10/11/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	802997	Y1S	EET SAV	10/17/23 15:59

Lab Chronicle

Client: Tetra Tech, Inc.
Job ID: 670-28390-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT0974-034.0-20231010
Lab Sample ID: 670-28390-29
Date Collected: 10/10/23 10:30
Matrix: Water
Date Received: 10/11/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	802997	Y1S	EET SAV	10/17/23 16:18

Client Sample ID: LC34-DPT0974-038.0-20231010
Lab Sample ID: 670-28390-30
Date Collected: 10/10/23 10:50
Matrix: Water
Date Received: 10/11/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	802997	Y1S	EET SAV	10/17/23 16:37

Client Sample ID: LC34-DPT0975-008.0-20231010
Lab Sample ID: 670-28390-31
Date Collected: 10/10/23 11:25
Matrix: Water
Date Received: 10/11/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	802997	Y1S	EET SAV	10/17/23 16:56

Client Sample ID: LC34-DPT0975-013.0-20231010
Lab Sample ID: 670-28390-32
Date Collected: 10/10/23 11:35
Matrix: Water
Date Received: 10/11/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	802997	Y1S	EET SAV	10/17/23 17:15

Client Sample ID: LC34-DPT0975-018.0-20231010
Lab Sample ID: 670-28390-33
Date Collected: 10/10/23 11:50
Matrix: Water
Date Received: 10/11/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	802997	Y1S	EET SAV	10/17/23 17:34

Client Sample ID: LC34-DPT0975-025.0-20231010
Lab Sample ID: 670-28390-34
Date Collected: 10/10/23 12:05
Matrix: Water
Date Received: 10/11/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	802997	Y1S	EET SAV	10/17/23 17:53

Client Sample ID: LC34-DPT0975-034.0-20231010
Lab Sample ID: 670-28390-35
Date Collected: 10/10/23 12:35
Matrix: Water
Date Received: 10/11/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	802997	Y1S	EET SAV	10/17/23 18:34

Lab Chronicle

Client: Tetra Tech, Inc.
Job ID: 670-28390-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT0975-038.0-20231010
Lab Sample ID: 670-28390-36
Date Collected: 10/10/23 12:55
Matrix: Water
Date Received: 10/11/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	802997	Y1S	EET SAV	10/17/23 18:53

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: Tetra Tech, Inc.
Job ID: 670-28390-1
Project/Site: NASA KSC LC34 DPT

Laboratory: Eurofins Savannah

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
	AFCEE	SAVLAB	
Alabama	State	41450	06-30-24
ANAB	Dept. of Defense ELAP	L2463	09-22-24
Arkansas DEQ	State	19-015-0	02-01-24
California	State	2939	06-30-24
Florida	NELAP	E87052	06-30-24
Georgia	State	E87052	06-30-24
Georgia (DW)	State	803	06-30-24
Guam	State	19-007R	04-17-24
Hawaii	State	<cert No.>	06-30-24
Illinois	NELAP	200022	11-30-23
Indiana	State	C-GA-02	06-30-24
Iowa	State	353	07-01-25
Kentucky (UST)	State	NA	06-30-24
Louisiana	NELAP	30690	06-30-24
Louisiana (All)	NELAP	30690	06-30-24
Louisiana (DW)	State	LA009	12-31-23
Maine	State	GA00006	09-25-24
Maryland	State	250	12-31-23
Massachusetts	State	M-GA006	06-30-24
Michigan	State	9925	06-30-24
Mississippi	State	<cert No.>	06-30-24
Nebraska	State	NE-OS-7-04	06-30-24
New Jersey	NELAP	GA769	06-30-24
New Mexico	State	GA00006	06-30-24
North Carolina (DW)	State	13701	07-31-24
North Carolina (WW/SW)	State	269	12-31-23
Pennsylvania	NELAP	68-00474	06-30-24
Puerto Rico	State	GA00006	01-01-24
South Carolina	State	98001	06-24-24
Tennessee	State	TN02961	06-30-24
Texas	NELAP	T1047004185	11-30-23
Texas	TCEQ Water Supply	T104704185	06-30-24
USDA	US Federal Programs	P330-18-00313	09-03-24
Virginia	NELAP	460161	06-14-24
Wyoming	State	8TMS-L	06-30-24

Method Summary

Client: Tetra Tech, Inc.
Job ID: 670-28390-1
Project/Site: NASA KSC LC34 DPT

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET SAV
5030B	Purge and Trap	SW846	EET SAV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Sample Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28390-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
670-28390-1	LC34-DPT0970-008.0-20231009	Water	10/09/23 09:20	10/11/23 08:00
670-28390-2	LC34-DPT0970-013.0-20231009	Water	10/09/23 09:35	10/11/23 08:00
670-28390-3	LC34-DPT0970-018.0-20231009	Water	10/09/23 09:50	10/11/23 08:00
670-28390-4	LC34-DPT0970-025.0-20231009	Water	10/09/23 10:05	10/11/23 08:00
670-28390-5	LC34-DPT0970-034.0-20231009	Water	10/09/23 10:25	10/11/23 08:00
670-28390-6	LC34-DPT0970-038.0-20231009	Water	10/09/23 10:45	10/11/23 08:00
670-28390-7	LC34-DPT0971-008.0-20231009	Water	10/09/23 11:20	10/11/23 08:00
670-28390-8	LC34-DPT0971-013.0-20231009	Water	10/09/23 11:35	10/11/23 08:00
670-28390-9	LC34-DPT0971-018.0-20231009	Water	10/09/23 11:50	10/11/23 08:00
670-28390-10	LC34-DPT0971-025.0-20231009	Water	10/09/23 12:10	10/11/23 08:00
670-28390-11	LC34-DPT0971-034.0-20231009	Water	10/09/23 12:35	10/11/23 08:00
670-28390-12	LC34-DPT0971-038.0-20231009	Water	10/09/23 13:00	10/11/23 08:00
670-28390-13	LC34-DPT0972-008.0-20231009	Water	10/09/23 14:35	10/11/23 08:00
670-28390-14	LC34-DPT0972-013.0-20231009	Water	10/09/23 14:50	10/11/23 08:00
670-28390-15	LC34-DPT0972-018.0-20231009	Water	10/09/23 15:05	10/11/23 08:00
670-28390-16	LC34-DPT0972-025.0-20231009	Water	10/09/23 15:20	10/11/23 08:00
670-28390-17	LC34-DPT0972-034.0-20231009	Water	10/09/23 15:40	10/11/23 08:00
670-28390-18	LC34-DPT0972-038.0-20231009	Water	10/09/23 16:00	10/11/23 08:00
670-28390-19	LC34-DPT0973-008.0-20231010	Water	10/10/23 07:35	10/11/23 08:00
670-28390-20	LC34-DPT0973-013.0-20231010	Water	10/10/23 07:50	10/11/23 08:00
670-28390-21	LC34-DPT0973-018.0-20231010	Water	10/10/23 08:10	10/11/23 08:00
670-28390-22	LC34-DPT0973-025.0-20231010	Water	10/10/23 08:25	10/11/23 08:00
670-28390-23	LC34-DPT0973-034.0-20231010	Water	10/10/23 08:40	10/11/23 08:00
670-28390-24	LC34-DPT0973-038.0-20231010	Water	10/10/23 09:00	10/11/23 08:00
670-28390-25	LC34-DPT0974-008.0-20231010	Water	10/10/23 09:35	10/11/23 08:00
670-28390-26	LC34-DPT0974-013.0-20231010	Water	10/10/23 09:45	10/11/23 08:00
670-28390-27	LC34-DPT0974-018.0-20231010	Water	10/10/23 10:00	10/11/23 08:00
670-28390-28	LC34-DPT0974-025.0-20231010	Water	10/10/23 10:15	10/11/23 08:00
670-28390-29	LC34-DPT0974-034.0-20231010	Water	10/10/23 10:30	10/11/23 08:00
670-28390-30	LC34-DPT0974-038.0-20231010	Water	10/10/23 10:50	10/11/23 08:00
670-28390-31	LC34-DPT0975-008.0-20231010	Water	10/10/23 11:25	10/11/23 08:00
670-28390-32	LC34-DPT0975-013.0-20231010	Water	10/10/23 11:35	10/11/23 08:00
670-28390-33	LC34-DPT0975-018.0-20231010	Water	10/10/23 11:50	10/11/23 08:00
670-28390-34	LC34-DPT0975-025.0-20231010	Water	10/10/23 12:05	10/11/23 08:00
670-28390-35	LC34-DPT0975-034.0-20231010	Water	10/10/23 12:35	10/11/23 08:00
670-28390-36	LC34-DPT0975-038.0-20231010	Water	10/10/23 12:55	10/11/23 08:00

Tetra Tech, Inc.

CHAIN OF CUSTODY | NUMBER No. 3763 | PAGE 1 OF 3

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G08985	KSC- LC34	Mark Sonnet	(412) 921-8622	Eurofins – Kaitlin Dylnick
SAMPLERS (SIGNATURE) – Chuck Sorden		FIELD OPERATIONS LEADER: Chuck Sorden	PHONE NUMBER: (321) 591-7580	ADDRESS: 481 Newburyport Ave.
		CARRIER/WAYBILL NUMBER		CITY, STATE: Altamonte Springs, FL

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): G G
PRESERVATIVE USED: HCl/4°C 4°C
TYPE OF ANALYSIS: 62600-(MOD) NASA LC34 Custom List; 62600-(MOD) NASA LC34- Custom List

DATE YEAR 2023	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS			COMMENTS
10/09	0920	LC34-DPT0970-008.0-20231009	03	6	10	GW	G	4	X	X	
	0935	LC34-DPT0970-013.0-20231009		11	15						
	0950	LC34-DPT0970-018.0-20231009		16	20						
	1005	LC34-DPT0970-025.0-20231009		23	27						
	1025	LC34-DPT0970-034.0-20231009		32	36						
	1045	LC34-DPT0970-038.0-20231009	03	36	40						
	1120	LC34-DPT0971-008.0-20231009	02	6	10						
	1135	LC34-DPT0971-013.0-20231009		11	15						
	1150	LC34-DPT0971-018.0-20231009		16	20						
	1210	LC34-DPT0971-025.0-20231009		23	27						
	1235	LC34-DPT0971-034.0-20231009		32	36						
	1300	LC34-DPT0971-038.0-20231009	02	36	40						
10/09	1435	LC34-DPT0972-008.0-20231009	86	6	10	GW	G	4	X	X	

670-28390 Chain of Custody

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	10/10/23	1415	1. RECEIVED BY		
2. RELINQUISHED BY			2. RECEIVED BY		
3. RELINQUISHED BY			3. RECEIVED BY	10/11	0800

COMMENTS: 1.0 | 0.5

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546 FORM NO. TT-IM-0300 4/02R

Tetra Tech, Inc.

CHAIN OF CUSTODY | NUMBER No. 3764 | PAGE 2 OF 3

PROJECT NO: 112G08985	FACILITY: KSC-LC34	PROJECT MANAGER Mark Sonnet	PHONE NUMBER (412) 921-8622	LABORATORY NAME AND CONTACT: Eurofins — Kaitlin Dylnicki
SAMPLERS (SIGNATURE) - Chuck Sorden		FIELD OPERATIONS LEADER Chuck Sorden	PHONE NUMBER (321) 591-7580	ADDRESS 481 Newburyport Ave.
		CARRIER/WAYBILL NUMBER		CITY, STATE Altamonte Springs, FL

STANDARD TAT ☒
RUSH TAT ☐ ☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE	YEAR	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)									COMMENTS
										G	G								
										PRESERVATIVE USED		HCl/4°C	4°C						
										TYPE OF ANALYSIS		8260D-(MOD) NASA LC34 Custom List	8260D-(MOD) NASA LC34 Custom List						
10/09	2023	1450	LC34-DPT0972-008.0-20231009	86	11	15	GW	G	4			X	X						
		1505	LC34-DPT0972-018.0-20231009		16	20													
		1520	LC34-DPT0972-025.0-20231009		23	27													
		1540	LC34-DPT0972-034.0-20231009		32	36													
10/09		1600	LC34-DPT0972-038.0-20231009	86	36	40													
10/10		0735	LC34-DPT0973-008.0-20231010	77	6	10													
		0750	LC34-DPT0973-013.0-20231010		11	15													
		0810	LC34-DPT0973-018.0-20231010		16	20													
		0825	LC34-DPT0973-025.0-20231010		23	27													
		0840	LC34-DPT0973-034.0-20231010		32	36													
		0900	LC34-DPT0973-038.0-20231010	77	36	40													
		0935	LC34-DPT0974-008.0-20231010	78	6	10													
10/10		0945	LC34-DPT0974-013.0-20231010	78	11	15	GW	G	4			X	X						

1. RELINQUISHED BY	DATE 10/10/23	TIME 1415	1. RECEIVED BY	DATE	TIME
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE 10/11	TIME 0800

COMMENTS 1.0/0.5

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4/02R FORM NO. TT-08-25

Tetra Tech, Inc. CHAIN OF CUSTODY | NUMBER No. 3765 | PAGE 3 OF 3

PROJECT NO: 112G08985	FACILITY: KSC-LC34	PROJECT MANAGER Mark Jonnet	PHONE NUMBER (412) 921-8622	LABORATORY NAME AND CONTACT: Eurofins — Kaitlin Dylnicki
SAMPLERS (SIGNATURE) -Chuck Sorden		FIELD OPERATIONS LEADER Chuck Sorden	PHONE NUMBER (321) 591-7580	ADDRESS 481 Newburyport Ave.
		CARRIER/WAYBILL NUMBER		CITY, STATE Altamonte Springs, FL

STANDARD TAT ☒
RUSH TAT ☐ ☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE (MM/DD)	YEAR	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)		PRESERVATIVE USED		TYPE OF ANALYSIS		COMMENTS
										G	G	HCl/4°C	4°C	8260D-(MOD) NASA LC34 Custom List	8260D-(MOD) NASA LC34 Custom List	
10/10	2023	1000	LC34-DPT0974-018.0-20231010	78	16	20	GW	G	4	X	X					
		1015	LC34-DPT0974-025.0-20231010		23	27										
		1030	LC34-DPT0974-034.0-20231010		32	36										
		~~1050~~ 1050 CS	LC34-DPT0974-038.0-20231016	78	36	40										
		1125	LC34-DPT0975 975-008.0-20231010	79	6	10										
		1135	LC34-DPT0975-013.0-20231010		11	15										
		1150	LC34-DPT0975-018.0-20231010		16	20										
		1205	LC34-DPT0975-025.0-2023 1016		23	27										
		1235	LC34-DPT0975-034.0-20231010		32	36										
10/10		1255	LC34-DPT0975-038.0-20231010	79	36	40	GW	G	4	X	X					

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	10/10/23	1415	1. RECEIVED BY		
2. RELINQUISHED BY			2. RECEIVED BY		
3. RELINQUISHED BY			3. RECEIVED BY	10/11	0800

COMMENTS 1.0/0.5 586

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY) 4/02R

FORM NO. TT-[illegible]

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 670-28390-1

Login Number: 28390

List Source: Eurofins Orlando

List Number: 1

Creator: Hartley, Tyler

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 670-28390-1

Login Number: 28390
List Number: 2
Creator: Swafford, Frances E

List Source: Eurofins Savannah
List Creation: 10/17/23 11:30 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.		
Sample custody seals, if present, are intact.		
The cooler or samples do not appear to have been compromised or tampered with.		
Samples were received on ice.		
Cooler Temperature is acceptable.		
Cooler Temperature is recorded.		
COC is present.		
COC is filled out in ink and legible.		
COC is filled out with all pertinent information.		
Is the Field Sampler's name present on COC?		
There are no discrepancies between the containers received and the COC.		
Samples are received within Holding Time (excluding tests with immediate HTs)		
Sample containers have legible labels.		
Containers are not broken or leaking.		
Sample collection date/times are provided.		
Appropriate sample containers are used.		
Sample bottles are completely filled.		
Sample Preservation Verified.		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs		
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").		
Multiphasic samples are not present.		
Samples do not require splitting or compositing.		
Residual Chlorine Checked.		

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Mark Jonnet
Tetra Tech, Inc.
Foster Plaza 7
661 Anderson Drive
Suite 200
Pittsburgh, Pennsylvania 15220-2745

Generated 11/1/2023 1:03:15 PM

JOB DESCRIPTION

NASA KSC LC34 DPT

JOB NUMBER

670-28455-1

Eurofins Orlando
481 Newburyport Avenue
Altamonte Springs FL 32701

See page two for job notes and contact information.

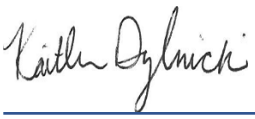
my EOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization



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Authorized for release by
Kaitlin Dylnicki, Project Manager
kaitlin.dylnicki@et.eurofinsus.com
(407)339-5984

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Definitions/Glossary

Client: Tetra Tech, Inc.
Job ID: 670-28455-1
Project/Site: NASA KSC LC34 DPT

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
U	Indicates that the compound was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 670-28455-1

Laboratory: Eurofins Orlando

Narrative

Job Narrative
Client: Tetra Tech
Client PM: Mark Jonnet
Project: NASA KSC LC34
Project Number: 112G08985
670-28455-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 10/12/2023 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.3°C

GC/MS VOA
Method 8260D: The continuing calibration verification (CCV) analyzed in batch 680-802762 was outside the method criteria for the following analyte(s): Chloroethane. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8260D: The laboratory control sample (LCS) and/or laboratory control sample duplicate (LCS/LCSD) for analytical batch 680-802762 recovered outside control limits for the following analytes: 2-Butanone (MEK), 4-Methyl-2-pentanone and Acetone. These analytes were biased high in the LCS/LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 680-802762 recovered outside control limits for the following analytes: Acetone.

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-802762.

Method 8260D: The continuing calibration verification (CCV) associated with batch 680-802762 recovered above the upper control limit for 2-Butanone (MEK), 2-Hexanone and Acetone. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-803143.

Method 8260D: The following samples were diluted to bring the concentration of target analytes within the calibration range: LC34-DPT0978-025.0-20231011 (670-28455-16), LC34-DPT0979-018.0-20231011 (670-28455-21), LC34-DPT0979-025.0-20231011 (670-28455-22), LC34-DPT0979-034.0-20231011 (670-28455-23), LC34-DPT0980-025.0-20231011 (670-28455-28) and LC34-DPT0980-034.0-20231011 (670-28455-29). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28455-1

Client Sample ID: LC34-DPT0976-008.0 -20231010 — Lab Sample ID: 670-28455-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	11		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	23		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0976-013.0-20231010 — Lab Sample ID: 670-28455-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	35		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	90		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0976-018.0-20231010 — Lab Sample ID: 670-28455-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	6.6		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	20		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0976-025.0-20231010 — Lab Sample ID: 670-28455-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	13		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	34		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0976-034.0-20231010 — Lab Sample ID: 670-28455-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.81	I	2.0	0.43	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0976-038.0 -20231010 — Lab Sample ID: 670-28455-6

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.86	I	2.0	0.43	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0977-008.0-20231010 — Lab Sample ID: 670-28455-7

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.69	I	1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	2.6		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0977-013.0-20231010 — Lab Sample ID: 670-28455-8

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.87	I	1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	3.8		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0977-018.0-20231010 — Lab Sample ID: 670-28455-9

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.7		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	9.5		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0977-025.0-20231010 — Lab Sample ID: 670-28455-10

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	1.0	I	2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	10		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	23		1.0	0.40	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28455-1

Client Sample ID: LC34-DPT0977-034.0-20231010 — Lab Sample ID: 670-28455-11

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.72	I	2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.78	I	1.0	0.25	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0977-038.0-20231011 — Lab Sample ID: 670-28455-12

No Detections.

Client Sample ID: LC34-DPT0978-008.0-20231011 — Lab Sample ID: 670-28455-13

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	5.9		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	31		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0978-013.0-20231011 — Lab Sample ID: 670-28455-14

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.6		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	15		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0978-018.0-20231011 — Lab Sample ID: 670-28455-15

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.1		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	80		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0978-025.0-20231011 — Lab Sample ID: 670-28455-16

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	420		5.0	2.0	ug/L	5		8260D	Total/NA

Client Sample ID: LC34-DPT0978-034.0-20231011 — Lab Sample ID: 670-28455-17

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	1.1	I	2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.90	I	1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	8.2		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0978-038.0-20231011 — Lab Sample ID: 670-28455-18

No Detections.

Client Sample ID: LC34-DPT0979-008.0-20231011 — Lab Sample ID: 670-28455-19

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	50		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	63		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0979-013.0-20231011 — Lab Sample ID: 670-28455-20

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	28		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	120		1.0	0.40	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28455-1

Client Sample ID: LC34-DPT0979-018.0-20231011 — Lab Sample ID: 670-28455-21

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	56		10	2.5	ug/L	10		8260D	Total/NA
Vinyl chloride	1100		10	4.0	ug/L	10		8260D	Total/NA

Client Sample ID: LC34-DPT0979-025.0-20231011 — Lab Sample ID: 670-28455-22

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
trans-1,2-Dichloroethene	71		25	8.5	ug/L	25		8260D	Total/NA
Vinyl chloride	4600		25	10	ug/L	25		8260D	Total/NA

Client Sample ID: LC34-DPT0979-034.0-20231011 — Lab Sample ID: 670-28455-23

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	7.8		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	250		2.0	0.80	ug/L	2		8260D	Total/NA

Client Sample ID: LC34-DPT0979-038.0-20231011 — Lab Sample ID: 670-28455-24

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	0.97	I	1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0980-008.0-20231011 — Lab Sample ID: 670-28455-25

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	23		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	25		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0980-013.0-20231011 — Lab Sample ID: 670-28455-26

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	20		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	31		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0980-018.0-20231011 — Lab Sample ID: 670-28455-27

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	17		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	4.2		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0980-025.0-20231011 — Lab Sample ID: 670-28455-28

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	190		2.0	0.50	ug/L	2		8260D	Total/NA
trans-1,2-Dichloroethene	3.4		2.0	0.68	ug/L	2		8260D	Total/NA
Vinyl chloride	370		2.0	0.80	ug/L	2		8260D	Total/NA

Client Sample ID: LC34-DPT0980-034.0-20231011 — Lab Sample ID: 670-28455-29

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	68		2.0	0.50	ug/L	2		8260D	Total/NA
Vinyl chloride	310		2.0	0.80	ug/L	2		8260D	Total/NA

Client Sample ID: LC34-DPT0980-038.0 -20231011 — Lab Sample ID: 670-28455-30

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Orlando

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28455-1

Client Sample ID: LC34-DPT0976-008.0 -20231010
Date Collected: 10/10/23 13:30
Date Received: 10/12/23 08:00

Lab Sample ID: 670-28455-1
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/16/23 15:13	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/16/23 15:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/16/23 15:13	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/16/23 15:13	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/16/23 15:13	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/16/23 15:13	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/16/23 15:13	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/16/23 15:13	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/16/23 15:13	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/16/23 15:13	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/16/23 15:13	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/16/23 15:13	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/16/23 15:13	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/16/23 15:13	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			10/16/23 15:13	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/16/23 15:13	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			10/16/23 15:13	1
Acetone	3.7	U J3	10	3.7	ug/L			10/16/23 15:13	1
Benzene	0.27	U	1.0	0.27	ug/L			10/16/23 15:13	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/16/23 15:13	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/16/23 15:13	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/16/23 15:13	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/16/23 15:13	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/16/23 15:13	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/16/23 15:13	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/16/23 15:13	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/16/23 15:13	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/16/23 15:13	1
cis-1,2-Dichloroethene	**11**		1.0	0.25	ug/L			10/16/23 15:13	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/16/23 15:13	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/16/23 15:13	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/16/23 15:13	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/16/23 15:13	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/16/23 15:13	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/16/23 15:13	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/16/23 15:13	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/16/23 15:13	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/16/23 15:13	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/16/23 15:13	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/16/23 15:13	1
Styrene	0.27	U	1.0	0.27	ug/L			10/16/23 15:13	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/16/23 15:13	1
Toluene	0.25	U	1.0	0.25	ug/L			10/16/23 15:13	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/16/23 15:13	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/16/23 15:13	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/16/23 15:13	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/16/23 15:13	1
Vinyl chloride	**23**		1.0	0.40	ug/L			10/16/23 15:13	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/16/23 15:13	1

Client Sample ID: LC34-DPT0976-008.0 -20231010
Lab Sample ID: 670-28455-1

Date Collected: 10/10/23 13:30
Matrix: Water
Date Received: 10/12/23 08:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	84		60 - 124		10/16/23 15:13	1
4-Bromofluorobenzene (Surr)	103		70 - 130		10/16/23 15:13	1
Dibromofluoromethane (Surr)	93		70 - 130		10/16/23 15:13	1
Toluene-d8 (Surr)	99		70 - 130		10/16/23 15:13	1

Client Sample ID: LC34-DPT0976-013.0-20231010
Lab Sample ID: 670-28455-2

Date Collected: 10/10/23 13:45
Matrix: Water
Date Received: 10/12/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/16/23 19:37	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/16/23 19:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/16/23 19:37	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/16/23 19:37	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/16/23 19:37	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/16/23 19:37	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/16/23 19:37	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/16/23 19:37	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/16/23 19:37	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/16/23 19:37	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/16/23 19:37	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/16/23 19:37	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/16/23 19:37	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/16/23 19:37	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			10/16/23 19:37	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/16/23 19:37	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			10/16/23 19:37	1
Acetone	3.7	U J3	10	3.7	ug/L			10/16/23 19:37	1
Benzene	0.27	U	1.0	0.27	ug/L			10/16/23 19:37	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/16/23 19:37	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/16/23 19:37	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/16/23 19:37	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/16/23 19:37	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/16/23 19:37	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/16/23 19:37	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/16/23 19:37	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/16/23 19:37	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/16/23 19:37	1
cis-1,2-Dichloroethene	**35**		1.0	0.25	ug/L			10/16/23 19:37	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/16/23 19:37	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/16/23 19:37	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/16/23 19:37	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/16/23 19:37	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/16/23 19:37	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/16/23 19:37	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/16/23 19:37	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/16/23 19:37	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/16/23 19:37	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/16/23 19:37	1

Client Sample ID: LC34-DPT0976-013.0-20231010
Lab Sample ID: 670-28455-2

Date Collected: 10/10/23 13:45
Matrix: Water
Date Received: 10/12/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	0.26	U	1.0	0.26	ug/L			10/16/23 19:37	1
Styrene	0.27	U	1.0	0.27	ug/L			10/16/23 19:37	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/16/23 19:37	1
Toluene	0.25	U	1.0	0.25	ug/L			10/16/23 19:37	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/16/23 19:37	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/16/23 19:37	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/16/23 19:37	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/16/23 19:37	1
Vinyl chloride	**90**		1.0	0.40	ug/L			10/16/23 19:37	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/16/23 19:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*84*		*60 - 124*		*10/16/23 19:37*	*1*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*10/16/23 19:37*	*1*
Dibromofluoromethane (Surr)	*93*		*70 - 130*		*10/16/23 19:37*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/16/23 19:37*	*1*

Client Sample ID: LC34-DPT0976-018.0-20231010
Lab Sample ID: 670-28455-3

Date Collected: 10/10/23 14:00
Matrix: Water
Date Received: 10/12/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/16/23 15:32	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/16/23 15:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/16/23 15:32	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/16/23 15:32	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/16/23 15:32	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/16/23 15:32	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/16/23 15:32	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/16/23 15:32	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/16/23 15:32	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/16/23 15:32	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/16/23 15:32	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/16/23 15:32	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/16/23 15:32	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/16/23 15:32	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			10/16/23 15:32	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/16/23 15:32	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			10/16/23 15:32	1
Acetone	3.7	U J3	10	3.7	ug/L			10/16/23 15:32	1
Benzene	0.27	U	1.0	0.27	ug/L			10/16/23 15:32	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/16/23 15:32	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/16/23 15:32	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/16/23 15:32	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/16/23 15:32	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/16/23 15:32	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/16/23 15:32	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/16/23 15:32	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/16/23 15:32	1

Client Sample ID: LC34-DPT0976-018.0-20231010
Lab Sample ID: 670-28455-3

Date Collected: 10/10/23 14:00
Matrix: Water
Date Received: 10/12/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	0.54	U	1.0	0.54	ug/L			10/16/23 15:32	1
cis-1,2-Dichloroethene	**6.6**		1.0	0.25	ug/L			10/16/23 15:32	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/16/23 15:32	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/16/23 15:32	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/16/23 15:32	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/16/23 15:32	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/16/23 15:32	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/16/23 15:32	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/16/23 15:32	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/16/23 15:32	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/16/23 15:32	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/16/23 15:32	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/16/23 15:32	1
Styrene	0.27	U	1.0	0.27	ug/L			10/16/23 15:32	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/16/23 15:32	1
Toluene	0.25	U	1.0	0.25	ug/L			10/16/23 15:32	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/16/23 15:32	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/16/23 15:32	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/16/23 15:32	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/16/23 15:32	1
Vinyl chloride	**20**		1.0	0.40	ug/L			10/16/23 15:32	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/16/23 15:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*85*		*60 - 124*		*10/16/23 15:32*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*10/16/23 15:32*	*1*
Dibromofluoromethane (Surr)	*93*		*70 - 130*		*10/16/23 15:32*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/16/23 15:32*	*1*

Client Sample ID: LC34-DPT0976-025.0-20231010
Lab Sample ID: 670-28455-4

Date Collected: 10/10/23 14:15
Matrix: Water
Date Received: 10/12/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/16/23 15:51	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/16/23 15:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/16/23 15:51	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/16/23 15:51	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/16/23 15:51	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/16/23 15:51	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/16/23 15:51	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/16/23 15:51	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/16/23 15:51	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/16/23 15:51	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/16/23 15:51	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/16/23 15:51	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/16/23 15:51	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/16/23 15:51	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			10/16/23 15:51	1

Client Sample ID: LC34-DPT0976-025.0-20231010
Lab Sample ID: 670-28455-4

Date Collected: 10/10/23 14:15
Matrix: Water
Date Received: 10/12/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	3.2	U	10	3.2	ug/L			10/16/23 15:51	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			10/16/23 15:51	1
Acetone	3.7	U J3	10	3.7	ug/L			10/16/23 15:51	1
Benzene	0.27	U	1.0	0.27	ug/L			10/16/23 15:51	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/16/23 15:51	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/16/23 15:51	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/16/23 15:51	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/16/23 15:51	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/16/23 15:51	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/16/23 15:51	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/16/23 15:51	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/16/23 15:51	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/16/23 15:51	1
cis-1,2-Dichloroethene	**13**		1.0	0.25	ug/L			10/16/23 15:51	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/16/23 15:51	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/16/23 15:51	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/16/23 15:51	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/16/23 15:51	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/16/23 15:51	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/16/23 15:51	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/16/23 15:51	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/16/23 15:51	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/16/23 15:51	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/16/23 15:51	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/16/23 15:51	1
Styrene	0.27	U	1.0	0.27	ug/L			10/16/23 15:51	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/16/23 15:51	1
Toluene	0.25	U	1.0	0.25	ug/L			10/16/23 15:51	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/16/23 15:51	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/16/23 15:51	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/16/23 15:51	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/16/23 15:51	1
Vinyl chloride	**34**		1.0	0.40	ug/L			10/16/23 15:51	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/16/23 15:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*60 - 124*		*10/16/23 15:51*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/16/23 15:51*	*1*
Dibromofluoromethane (Surr)	*93*		*70 - 130*		*10/16/23 15:51*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/16/23 15:51*	*1*

Client Sample ID: LC34-DPT0976-034.0-20231010
Lab Sample ID: 670-28455-5

Date Collected: 10/10/23 14:30
Matrix: Water
Date Received: 10/12/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/16/23 16:10	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/16/23 16:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/16/23 16:10	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28455-1

Client Sample ID: LC34-DPT0976-034.0-20231010
Date Collected: 10/10/23 14:30
Date Received: 10/12/23 08:00

Lab Sample ID: 670-28455-5
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/16/23 16:10	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/16/23 16:10	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/16/23 16:10	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/16/23 16:10	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/16/23 16:10	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/16/23 16:10	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/16/23 16:10	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/16/23 16:10	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/16/23 16:10	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/16/23 16:10	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/16/23 16:10	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			10/16/23 16:10	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/16/23 16:10	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			10/16/23 16:10	1
Acetone	3.7	U J3	10	3.7	ug/L			10/16/23 16:10	1
Benzene	0.27	U	1.0	0.27	ug/L			10/16/23 16:10	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/16/23 16:10	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/16/23 16:10	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/16/23 16:10	1
Carbon disulfide	**0.81**	**I**	2.0	0.43	ug/L			10/16/23 16:10	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/16/23 16:10	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/16/23 16:10	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/16/23 16:10	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/16/23 16:10	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/16/23 16:10	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/16/23 16:10	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/16/23 16:10	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/16/23 16:10	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/16/23 16:10	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/16/23 16:10	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/16/23 16:10	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/16/23 16:10	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/16/23 16:10	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/16/23 16:10	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/16/23 16:10	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/16/23 16:10	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/16/23 16:10	1
Styrene	0.27	U	1.0	0.27	ug/L			10/16/23 16:10	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/16/23 16:10	1
Toluene	0.25	U	1.0	0.25	ug/L			10/16/23 16:10	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/16/23 16:10	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/16/23 16:10	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/16/23 16:10	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/16/23 16:10	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/16/23 16:10	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/16/23 16:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*85*		*60 - 124*		*10/16/23 16:10*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/16/23 16:10*	*1*

Client Sample ID: LC34-DPT0976-034.0-20231010
Lab Sample ID: 670-28455-5

Date Collected: 10/10/23 14:30
Matrix: Water
Date Received: 10/12/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*94*		*70 - 130*		*10/16/23 16:10*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*10/16/23 16:10*	*1*

Client Sample ID: LC34-DPT0976-038.0 -20231010
Lab Sample ID: 670-28455-6

Date Collected: 10/10/23 14:50
Matrix: Water
Date Received: 10/12/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/16/23 16:29	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/16/23 16:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/16/23 16:29	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/16/23 16:29	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/16/23 16:29	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/16/23 16:29	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/16/23 16:29	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/16/23 16:29	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/16/23 16:29	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/16/23 16:29	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/16/23 16:29	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/16/23 16:29	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/16/23 16:29	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/16/23 16:29	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			10/16/23 16:29	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/16/23 16:29	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			10/16/23 16:29	1
Acetone	3.7	U J3	10	3.7	ug/L			10/16/23 16:29	1
Benzene	0.27	U	1.0	0.27	ug/L			10/16/23 16:29	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/16/23 16:29	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/16/23 16:29	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/16/23 16:29	1
Carbon disulfide	**0.86**	**I**	2.0	0.43	ug/L			10/16/23 16:29	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/16/23 16:29	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/16/23 16:29	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/16/23 16:29	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/16/23 16:29	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/16/23 16:29	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/16/23 16:29	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/16/23 16:29	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/16/23 16:29	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/16/23 16:29	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/16/23 16:29	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/16/23 16:29	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/16/23 16:29	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/16/23 16:29	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/16/23 16:29	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/16/23 16:29	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/16/23 16:29	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/16/23 16:29	1

Client Sample ID: LC34-DPT0976-038.0 -20231010

Lab Sample ID: 670-28455-6

Date Collected: 10/10/23 14:50

Matrix: Water

Date Received: 10/12/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.27	U	1.0	0.27	ug/L			10/16/23 16:29	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/16/23 16:29	1
Toluene	0.25	U	1.0	0.25	ug/L			10/16/23 16:29	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/16/23 16:29	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/16/23 16:29	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/16/23 16:29	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/16/23 16:29	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/16/23 16:29	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/16/23 16:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*60 - 124*		*10/16/23 16:29*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*10/16/23 16:29*	*1*
Dibromofluoromethane (Surr)	*93*		*70 - 130*		*10/16/23 16:29*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*10/16/23 16:29*	*1*

Client Sample ID: LC34-DPT0977-008.0-20231010

Lab Sample ID: 670-28455-7

Date Collected: 10/10/23 15:25

Matrix: Water

Date Received: 10/12/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/16/23 16:47	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/16/23 16:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/16/23 16:47	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/16/23 16:47	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/16/23 16:47	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/16/23 16:47	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/16/23 16:47	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/16/23 16:47	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/16/23 16:47	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/16/23 16:47	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/16/23 16:47	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/16/23 16:47	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/16/23 16:47	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/16/23 16:47	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			10/16/23 16:47	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/16/23 16:47	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			10/16/23 16:47	1
Acetone	3.7	U J3	10	3.7	ug/L			10/16/23 16:47	1
Benzene	0.27	U	1.0	0.27	ug/L			10/16/23 16:47	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/16/23 16:47	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/16/23 16:47	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/16/23 16:47	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/16/23 16:47	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/16/23 16:47	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/16/23 16:47	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/16/23 16:47	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/16/23 16:47	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/16/23 16:47	1

Client Sample ID: LC34-DPT0977-008.0-20231010
Lab Sample ID: 670-28455-7

Date Collected: 10/10/23 15:25
Matrix: Water
Date Received: 10/12/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**0.69**	**I**	1.0	0.25	ug/L			10/16/23 16:47	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/16/23 16:47	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/16/23 16:47	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/16/23 16:47	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/16/23 16:47	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/16/23 16:47	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/16/23 16:47	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/16/23 16:47	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/16/23 16:47	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/16/23 16:47	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/16/23 16:47	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/16/23 16:47	1
Styrene	0.27	U	1.0	0.27	ug/L			10/16/23 16:47	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/16/23 16:47	1
Toluene	0.25	U	1.0	0.25	ug/L			10/16/23 16:47	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/16/23 16:47	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/16/23 16:47	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/16/23 16:47	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/16/23 16:47	1
Vinyl chloride	**2.6**		1.0	0.40	ug/L			10/16/23 16:47	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/16/23 16:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*60 - 124*		*10/16/23 16:47*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/16/23 16:47*	*1*
Dibromofluoromethane (Surr)	*93*		*70 - 130*		*10/16/23 16:47*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*10/16/23 16:47*	*1*

Client Sample ID: LC34-DPT0977-013.0-20231010
Lab Sample ID: 670-28455-8

Date Collected: 10/10/23 15:35
Matrix: Water
Date Received: 10/12/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/16/23 17:06	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/16/23 17:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/16/23 17:06	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/16/23 17:06	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/16/23 17:06	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/16/23 17:06	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/16/23 17:06	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/16/23 17:06	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/16/23 17:06	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/16/23 17:06	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/16/23 17:06	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/16/23 17:06	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/16/23 17:06	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/16/23 17:06	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			10/16/23 17:06	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/16/23 17:06	1

Client Sample ID: LC34-DPT0977-013.0-20231010
Lab Sample ID: 670-28455-8

Date Collected: 10/10/23 15:35
Matrix: Water
Date Received: 10/12/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			10/16/23 17:06	1
Acetone	3.7	U J3	10	3.7	ug/L			10/16/23 17:06	1
Benzene	0.27	U	1.0	0.27	ug/L			10/16/23 17:06	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/16/23 17:06	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/16/23 17:06	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/16/23 17:06	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/16/23 17:06	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/16/23 17:06	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/16/23 17:06	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/16/23 17:06	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/16/23 17:06	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/16/23 17:06	1
cis-1,2-Dichloroethene	**0.87**	**I**	1.0	0.25	ug/L			10/16/23 17:06	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/16/23 17:06	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/16/23 17:06	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/16/23 17:06	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/16/23 17:06	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/16/23 17:06	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/16/23 17:06	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/16/23 17:06	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/16/23 17:06	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/16/23 17:06	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/16/23 17:06	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/16/23 17:06	1
Styrene	0.27	U	1.0	0.27	ug/L			10/16/23 17:06	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/16/23 17:06	1
Toluene	0.25	U	1.0	0.25	ug/L			10/16/23 17:06	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/16/23 17:06	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/16/23 17:06	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/16/23 17:06	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/16/23 17:06	1
Vinyl chloride	**3.8**		1.0	0.40	ug/L			10/16/23 17:06	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/16/23 17:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*85*		*60 - 124*		*10/16/23 17:06*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*10/16/23 17:06*	*1*
Dibromofluoromethane (Surr)	*95*		*70 - 130*		*10/16/23 17:06*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*10/16/23 17:06*	*1*

Client Sample ID: LC34-DPT0977-018.0-20231010
Lab Sample ID: 670-28455-9

Date Collected: 10/10/23 15:50
Matrix: Water
Date Received: 10/12/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/16/23 17:25	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/16/23 17:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/16/23 17:25	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/16/23 17:25	1

Client Sample ID: LC34-DPT0977-018.0-20231010
Lab Sample ID: 670-28455-9
Date Collected: 10/10/23 15:50
Matrix: Water
Date Received: 10/12/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/16/23 17:25	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/16/23 17:25	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/16/23 17:25	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/16/23 17:25	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/16/23 17:25	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/16/23 17:25	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/16/23 17:25	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/16/23 17:25	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/16/23 17:25	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/16/23 17:25	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			10/16/23 17:25	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/16/23 17:25	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			10/16/23 17:25	1
Acetone	3.7	U J3	10	3.7	ug/L			10/16/23 17:25	1
Benzene	0.27	U	1.0	0.27	ug/L			10/16/23 17:25	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/16/23 17:25	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/16/23 17:25	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/16/23 17:25	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/16/23 17:25	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/16/23 17:25	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/16/23 17:25	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/16/23 17:25	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/16/23 17:25	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/16/23 17:25	1
cis-1,2-Dichloroethene	**2.7**		1.0	0.25	ug/L			10/16/23 17:25	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/16/23 17:25	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/16/23 17:25	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/16/23 17:25	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/16/23 17:25	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/16/23 17:25	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/16/23 17:25	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/16/23 17:25	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/16/23 17:25	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/16/23 17:25	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/16/23 17:25	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/16/23 17:25	1
Styrene	0.27	U	1.0	0.27	ug/L			10/16/23 17:25	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/16/23 17:25	1
Toluene	0.25	U	1.0	0.25	ug/L			10/16/23 17:25	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/16/23 17:25	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/16/23 17:25	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/16/23 17:25	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/16/23 17:25	1
Vinyl chloride	**9.5**		1.0	0.40	ug/L			10/16/23 17:25	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/16/23 17:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*60 - 124*		*10/16/23 17:25*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*10/16/23 17:25*	*1*
Dibromofluoromethane (Surr)	*94*		*70 - 130*		*10/16/23 17:25*	*1*

Client Sample ID: LC34-DPT0977-018.0-20231010
Lab Sample ID: 670-28455-9

Date Collected: 10/10/23 15:50
Matrix: Water
Date Received: 10/12/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		70 - 130		10/16/23 17:25	1

Client Sample ID: LC34-DPT0977-025.0-20231010
Lab Sample ID: 670-28455-10

Date Collected: 10/10/23 16:05
Matrix: Water
Date Received: 10/12/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/16/23 17:44	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/16/23 17:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/16/23 17:44	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/16/23 17:44	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/16/23 17:44	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/16/23 17:44	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/16/23 17:44	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/16/23 17:44	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/16/23 17:44	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/16/23 17:44	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/16/23 17:44	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/16/23 17:44	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/16/23 17:44	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/16/23 17:44	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			10/16/23 17:44	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/16/23 17:44	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			10/16/23 17:44	1
Acetone	3.7	U J3	10	3.7	ug/L			10/16/23 17:44	1
Benzene	0.27	U	1.0	0.27	ug/L			10/16/23 17:44	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/16/23 17:44	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/16/23 17:44	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/16/23 17:44	1
Carbon disulfide	**1.0**	**I**	2.0	0.43	ug/L			10/16/23 17:44	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/16/23 17:44	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/16/23 17:44	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/16/23 17:44	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/16/23 17:44	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/16/23 17:44	1
cis-1,2-Dichloroethene	**10**		1.0	0.25	ug/L			10/16/23 17:44	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/16/23 17:44	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/16/23 17:44	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/16/23 17:44	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/16/23 17:44	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/16/23 17:44	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/16/23 17:44	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/16/23 17:44	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/16/23 17:44	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/16/23 17:44	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/16/23 17:44	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/16/23 17:44	1
Styrene	0.27	U	1.0	0.27	ug/L			10/16/23 17:44	1

Client Sample ID: LC34-DPT0977-025.0-20231010
Lab Sample ID: 670-28455-10

Date Collected: 10/10/23 16:05
Matrix: Water
Date Received: 10/12/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/16/23 17:44	1
Toluene	0.25	U	1.0	0.25	ug/L			10/16/23 17:44	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/16/23 17:44	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/16/23 17:44	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/16/23 17:44	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/16/23 17:44	1
Vinyl chloride	**23**		1.0	0.40	ug/L			10/16/23 17:44	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/16/23 17:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*85*		*60 - 124*		*10/16/23 17:44*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*10/16/23 17:44*	*1*
Dibromofluoromethane (Surr)	*93*		*70 - 130*		*10/16/23 17:44*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/16/23 17:44*	*1*

Client Sample ID: LC34-DPT0977-034.0-20231010
Lab Sample ID: 670-28455-11

Date Collected: 10/10/23 16:20
Matrix: Water
Date Received: 10/12/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/16/23 18:03	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/16/23 18:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/16/23 18:03	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/16/23 18:03	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/16/23 18:03	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/16/23 18:03	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/16/23 18:03	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/16/23 18:03	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/16/23 18:03	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/16/23 18:03	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/16/23 18:03	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/16/23 18:03	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/16/23 18:03	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/16/23 18:03	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			10/16/23 18:03	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/16/23 18:03	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			10/16/23 18:03	1
Acetone	3.7	U J3	10	3.7	ug/L			10/16/23 18:03	1
Benzene	0.27	U	1.0	0.27	ug/L			10/16/23 18:03	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/16/23 18:03	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/16/23 18:03	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/16/23 18:03	1
Carbon disulfide	**0.72**	**I**	2.0	0.43	ug/L			10/16/23 18:03	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/16/23 18:03	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/16/23 18:03	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/16/23 18:03	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/16/23 18:03	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/16/23 18:03	1
cis-1,2-Dichloroethene	**0.78**	**I**	1.0	0.25	ug/L			10/16/23 18:03	1

Client Sample ID: LC34-DPT0977-034.0-20231010
Lab Sample ID: 670-28455-11

Date Collected: 10/10/23 16:20
Matrix: Water
Date Received: 10/12/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/16/23 18:03	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/16/23 18:03	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/16/23 18:03	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/16/23 18:03	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/16/23 18:03	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/16/23 18:03	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/16/23 18:03	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/16/23 18:03	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/16/23 18:03	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/16/23 18:03	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/16/23 18:03	1
Styrene	0.27	U	1.0	0.27	ug/L			10/16/23 18:03	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/16/23 18:03	1
Toluene	0.25	U	1.0	0.25	ug/L			10/16/23 18:03	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/16/23 18:03	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/16/23 18:03	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/16/23 18:03	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/16/23 18:03	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/16/23 18:03	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/16/23 18:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*60 - 124*		*10/16/23 18:03*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*10/16/23 18:03*	*1*
Dibromofluoromethane (Surr)	*95*		*70 - 130*		*10/16/23 18:03*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*10/16/23 18:03*	*1*

Client Sample ID: LC34-DPT0977-038.0-20231011
Lab Sample ID: 670-28455-12

Date Collected: 10/11/23 16:40
Matrix: Water
Date Received: 10/12/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/16/23 18:22	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/16/23 18:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/16/23 18:22	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/16/23 18:22	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/16/23 18:22	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/16/23 18:22	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/16/23 18:22	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/16/23 18:22	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/16/23 18:22	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/16/23 18:22	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/16/23 18:22	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/16/23 18:22	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/16/23 18:22	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/16/23 18:22	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			10/16/23 18:22	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/16/23 18:22	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			10/16/23 18:22	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28455-1

Client Sample ID: LC34-DPT0977-038.0-20231011

Lab Sample ID: 670-28455-12

Date Collected: 10/11/23 16:40

Matrix: Water

Date Received: 10/12/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	3.7	U J3	10	3.7	ug/L			10/16/23 18:22	1
Benzene	0.27	U	1.0	0.27	ug/L			10/16/23 18:22	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/16/23 18:22	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/16/23 18:22	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/16/23 18:22	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/16/23 18:22	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/16/23 18:22	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/16/23 18:22	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/16/23 18:22	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/16/23 18:22	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/16/23 18:22	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/16/23 18:22	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/16/23 18:22	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/16/23 18:22	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/16/23 18:22	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/16/23 18:22	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/16/23 18:22	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/16/23 18:22	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/16/23 18:22	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/16/23 18:22	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/16/23 18:22	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/16/23 18:22	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/16/23 18:22	1
Styrene	0.27	U	1.0	0.27	ug/L			10/16/23 18:22	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/16/23 18:22	1
Toluene	0.25	U	1.0	0.25	ug/L			10/16/23 18:22	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/16/23 18:22	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/16/23 18:22	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/16/23 18:22	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/16/23 18:22	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/16/23 18:22	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/16/23 18:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*87*		*60 - 124*		*10/16/23 18:22*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*10/16/23 18:22*	*1*
Dibromofluoromethane (Surr)	*93*		*70 - 130*		*10/16/23 18:22*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*10/16/23 18:22*	*1*

Client Sample ID: LC34-DPT0978-008.0-20231011

Lab Sample ID: 670-28455-13

Date Collected: 10/11/23 08:05

Matrix: Water

Date Received: 10/12/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/16/23 18:41	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/16/23 18:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/16/23 18:41	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/16/23 18:41	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/16/23 18:41	1

Client: Tetra Tech, Inc.
Job ID: 670-28455-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT0978-008.0-20231011
Lab Sample ID: 670-28455-13
Date Collected: 10/11/23 08:05
Matrix: Water
Date Received: 10/12/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/16/23 18:41	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/16/23 18:41	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/16/23 18:41	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/16/23 18:41	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/16/23 18:41	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/16/23 18:41	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/16/23 18:41	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/16/23 18:41	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/16/23 18:41	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			10/16/23 18:41	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/16/23 18:41	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			10/16/23 18:41	1
Acetone	3.7	U J3	10	3.7	ug/L			10/16/23 18:41	1
Benzene	0.27	U	1.0	0.27	ug/L			10/16/23 18:41	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/16/23 18:41	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/16/23 18:41	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/16/23 18:41	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/16/23 18:41	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/16/23 18:41	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/16/23 18:41	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/16/23 18:41	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/16/23 18:41	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/16/23 18:41	1
cis-1,2-Dichloroethene	**5.9**		1.0	0.25	ug/L			10/16/23 18:41	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/16/23 18:41	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/16/23 18:41	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/16/23 18:41	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/16/23 18:41	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/16/23 18:41	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/16/23 18:41	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/16/23 18:41	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/16/23 18:41	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/16/23 18:41	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/16/23 18:41	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/16/23 18:41	1
Styrene	0.27	U	1.0	0.27	ug/L			10/16/23 18:41	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/16/23 18:41	1
Toluene	0.25	U	1.0	0.25	ug/L			10/16/23 18:41	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/16/23 18:41	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/16/23 18:41	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/16/23 18:41	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/16/23 18:41	1
Vinyl chloride	**31**		1.0	0.40	ug/L			10/16/23 18:41	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/16/23 18:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*87*		*60 - 124*		*10/16/23 18:41*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/16/23 18:41*	*1*
Dibromofluoromethane (Surr)	*94*		*70 - 130*		*10/16/23 18:41*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*10/16/23 18:41*	*1*

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28455-1

Client Sample ID: LC34-DPT0978-013.0-20231011
Date Collected: 10/11/23 08:20
Date Received: 10/12/23 08:00

Lab Sample ID: 670-28455-14
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/16/23 19:00	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/16/23 19:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/16/23 19:00	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/16/23 19:00	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/16/23 19:00	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/16/23 19:00	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/16/23 19:00	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/16/23 19:00	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/16/23 19:00	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/16/23 19:00	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/16/23 19:00	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/16/23 19:00	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/16/23 19:00	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/16/23 19:00	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			10/16/23 19:00	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/16/23 19:00	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			10/16/23 19:00	1
Acetone	3.7	U J3	10	3.7	ug/L			10/16/23 19:00	1
Benzene	0.27	U	1.0	0.27	ug/L			10/16/23 19:00	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/16/23 19:00	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/16/23 19:00	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/16/23 19:00	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/16/23 19:00	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/16/23 19:00	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/16/23 19:00	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/16/23 19:00	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/16/23 19:00	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/16/23 19:00	1
cis-1,2-Dichloroethene	**2.6**		1.0	0.25	ug/L			10/16/23 19:00	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/16/23 19:00	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/16/23 19:00	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/16/23 19:00	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/16/23 19:00	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/16/23 19:00	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/16/23 19:00	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/16/23 19:00	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/16/23 19:00	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/16/23 19:00	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/16/23 19:00	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/16/23 19:00	1
Styrene	0.27	U	1.0	0.27	ug/L			10/16/23 19:00	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/16/23 19:00	1
Toluene	0.25	U	1.0	0.25	ug/L			10/16/23 19:00	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/16/23 19:00	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/16/23 19:00	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/16/23 19:00	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/16/23 19:00	1
Vinyl chloride	**15**		1.0	0.40	ug/L			10/16/23 19:00	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/16/23 19:00	1

Client Sample ID: LC34-DPT0978-013.0-20231011
Lab Sample ID: 670-28455-14

Date Collected: 10/11/23 08:20
Matrix: Water
Date Received: 10/12/23 08:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	86		60 - 124		10/16/23 19:00	1
4-Bromofluorobenzene (Surr)	97		70 - 130		10/16/23 19:00	1
Dibromofluoromethane (Surr)	96		70 - 130		10/16/23 19:00	1
Toluene-d8 (Surr)	99		70 - 130		10/16/23 19:00	1

Client Sample ID: LC34-DPT0978-018.0-20231011
Lab Sample ID: 670-28455-15

Date Collected: 10/11/23 08:35
Matrix: Water
Date Received: 10/12/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/16/23 19:18	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/16/23 19:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/16/23 19:18	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/16/23 19:18	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/16/23 19:18	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/16/23 19:18	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/16/23 19:18	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/16/23 19:18	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/16/23 19:18	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/16/23 19:18	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/16/23 19:18	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/16/23 19:18	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/16/23 19:18	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/16/23 19:18	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			10/16/23 19:18	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/16/23 19:18	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			10/16/23 19:18	1
Acetone	3.7	U J3	10	3.7	ug/L			10/16/23 19:18	1
Benzene	0.27	U	1.0	0.27	ug/L			10/16/23 19:18	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/16/23 19:18	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/16/23 19:18	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/16/23 19:18	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/16/23 19:18	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/16/23 19:18	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/16/23 19:18	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/16/23 19:18	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/16/23 19:18	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/16/23 19:18	1
cis-1,2-Dichloroethene	**2.1**		1.0	0.25	ug/L			10/16/23 19:18	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/16/23 19:18	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/16/23 19:18	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/16/23 19:18	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/16/23 19:18	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/16/23 19:18	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/16/23 19:18	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/16/23 19:18	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/16/23 19:18	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/16/23 19:18	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/16/23 19:18	1

Client Sample ID: LC34-DPT0978-018.0-20231011
Lab Sample ID: 670-28455-15

Date Collected: 10/11/23 08:35
Matrix: Water
Date Received: 10/12/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	0.26	U	1.0	0.26	ug/L			10/16/23 19:18	1
Styrene	0.27	U	1.0	0.27	ug/L			10/16/23 19:18	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/16/23 19:18	1
Toluene	0.25	U	1.0	0.25	ug/L			10/16/23 19:18	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/16/23 19:18	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/16/23 19:18	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/16/23 19:18	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/16/23 19:18	1
Vinyl chloride	**80**		1.0	0.40	ug/L			10/16/23 19:18	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/16/23 19:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*60 - 124*		*10/16/23 19:18*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*10/16/23 19:18*	*1*
Dibromofluoromethane (Surr)	*94*		*70 - 130*		*10/16/23 19:18*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*10/16/23 19:18*	*1*

Client Sample ID: LC34-DPT0978-025.0-20231011
Lab Sample ID: 670-28455-16

Date Collected: 10/11/23 08:50
Matrix: Water
Date Received: 10/12/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	5.0	1.1	ug/L			10/18/23 04:45	5
1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	ug/L			10/18/23 04:45	5
1,1,2-Trichloro-1,2,2-trifluoroethane	1.2	U	5.0	1.2	ug/L			10/18/23 04:45	5
1,1,2-Trichloroethane	1.6	U	5.0	1.6	ug/L			10/18/23 04:45	5
1,1-Dichloroethane	1.7	U	5.0	1.7	ug/L			10/18/23 04:45	5
1,1-Dichloroethene	1.7	U	5.0	1.7	ug/L			10/18/23 04:45	5
1,2,4-Trichlorobenzene	2.7	U	25	2.7	ug/L			10/18/23 04:45	5
1,2-Dibromo-3-Chloropropane	9.0	U	25	9.0	ug/L			10/18/23 04:45	5
1,2-Dibromoethane (EDB)	1.7	U	5.0	1.7	ug/L			10/18/23 04:45	5
1,2-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/18/23 04:45	5
1,2-Dichloroethane	1.3	U	5.0	1.3	ug/L			10/18/23 04:45	5
1,2-Dichloropropane	1.1	U	5.0	1.1	ug/L			10/18/23 04:45	5
1,3-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/18/23 04:45	5
1,4-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/18/23 04:45	5
2-Butanone (MEK)	32	U	50	32	ug/L			10/18/23 04:45	5
2-Hexanone	16	U	50	16	ug/L			10/18/23 04:45	5
4-Methyl-2-pentanone	14	U	50	14	ug/L			10/18/23 04:45	5
Acetone	19	U	50	19	ug/L			10/18/23 04:45	5
Benzene	1.4	U	5.0	1.4	ug/L			10/18/23 04:45	5
Bromodichloromethane	1.3	U	5.0	1.3	ug/L			10/18/23 04:45	5
Bromoform	3.0	U	5.0	3.0	ug/L			10/18/23 04:45	5
Bromomethane	19	U	25	19	ug/L			10/18/23 04:45	5
Carbon disulfide	2.2	U	10	2.2	ug/L			10/18/23 04:45	5
Carbon tetrachloride	1.5	U	5.0	1.5	ug/L			10/18/23 04:45	5
Chlorobenzene	0.75	U	5.0	0.75	ug/L			10/18/23 04:45	5
Chloroethane	23	U	25	23	ug/L			10/18/23 04:45	5
Chloroform	1.4	U	5.0	1.4	ug/L			10/18/23 04:45	5

Client Sample ID: LC34-DPT0978-025.0-20231011
Lab Sample ID: 670-28455-16

Date Collected: 10/11/23 08:50
Matrix: Water
Date Received: 10/12/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	2.7	U	5.0	2.7	ug/L			10/18/23 04:45	5
cis-1,2-Dichloroethene	1.3	U	5.0	1.3	ug/L			10/18/23 04:45	5
cis-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			10/18/23 04:45	5
Cyclohexane	1.4	U	5.0	1.4	ug/L			10/18/23 04:45	5
Dibromochloromethane	2.0	U	5.0	2.0	ug/L			10/18/23 04:45	5
Dichlorodifluoromethane	1.8	U	5.0	1.8	ug/L			10/18/23 04:45	5
Ethylbenzene	1.0	U	5.0	1.0	ug/L			10/18/23 04:45	5
Isopropylbenzene	1.3	U	5.0	1.3	ug/L			10/18/23 04:45	5
m,p-Xylenes	2.5	U	5.0	2.5	ug/L			10/18/23 04:45	5
Methyl acetate	16	U	25	16	ug/L			10/18/23 04:45	5
Methyl tert-butyl ether	4.1	U	25	4.1	ug/L			10/18/23 04:45	5
Methylene Chloride	16	U	25	16	ug/L			10/18/23 04:45	5
o-Xylene	1.3	U	5.0	1.3	ug/L			10/18/23 04:45	5
Styrene	1.4	U	5.0	1.4	ug/L			10/18/23 04:45	5
Tetrachloroethene	1.8	U	5.0	1.8	ug/L			10/18/23 04:45	5
Toluene	1.3	U	5.0	1.3	ug/L			10/18/23 04:45	5
trans-1,2-Dichloroethene	1.7	U	5.0	1.7	ug/L			10/18/23 04:45	5
trans-1,3-Dichloropropene	1.2	U	5.0	1.2	ug/L			10/18/23 04:45	5
Trichloroethene	1.0	U	5.0	1.0	ug/L			10/18/23 04:45	5
Trichlorofluoromethane	1.7	U	5.0	1.7	ug/L			10/18/23 04:45	5
Vinyl chloride	**420**		5.0	2.0	ug/L			10/18/23 04:45	5
Xylenes, Total	1.2	U	5.0	1.2	ug/L			10/18/23 04:45	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 124*		*10/18/23 04:45*	*5*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*10/18/23 04:45*	*5*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*10/18/23 04:45*	*5*
Toluene-d8 (Surr)	*108*		*70 - 130*		*10/18/23 04:45*	*5*

Client Sample ID: LC34-DPT0978-034.0-20231011
Lab Sample ID: 670-28455-17

Date Collected: 10/11/23 09:10
Matrix: Water
Date Received: 10/12/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/18/23 01:10	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/18/23 01:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/18/23 01:10	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/18/23 01:10	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/18/23 01:10	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/18/23 01:10	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/18/23 01:10	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/18/23 01:10	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/18/23 01:10	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/18/23 01:10	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/18/23 01:10	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/18/23 01:10	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/18/23 01:10	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/18/23 01:10	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/18/23 01:10	1

Client Sample ID: LC34-DPT0978-034.0-20231011
Lab Sample ID: 670-28455-17

Date Collected: 10/11/23 09:10
Matrix: Water
Date Received: 10/12/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	3.2	U	10	3.2	ug/L			10/18/23 01:10	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/18/23 01:10	1
Acetone	3.7	U	10	3.7	ug/L			10/18/23 01:10	1
Benzene	0.27	U	1.0	0.27	ug/L			10/18/23 01:10	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/18/23 01:10	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/18/23 01:10	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/18/23 01:10	1
Carbon disulfide	**1.1**	**I**	2.0	0.43	ug/L			10/18/23 01:10	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/18/23 01:10	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/18/23 01:10	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/18/23 01:10	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/18/23 01:10	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/18/23 01:10	1
cis-1,2-Dichloroethene	**0.90**	**I**	1.0	0.25	ug/L			10/18/23 01:10	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/18/23 01:10	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/18/23 01:10	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/18/23 01:10	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/18/23 01:10	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/18/23 01:10	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/18/23 01:10	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/18/23 01:10	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/18/23 01:10	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/18/23 01:10	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/18/23 01:10	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/18/23 01:10	1
Styrene	0.27	U	1.0	0.27	ug/L			10/18/23 01:10	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/18/23 01:10	1
Toluene	0.25	U	1.0	0.25	ug/L			10/18/23 01:10	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/18/23 01:10	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/18/23 01:10	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/18/23 01:10	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/18/23 01:10	1
Vinyl chloride	**8.2**		1.0	0.40	ug/L			10/18/23 01:10	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/18/23 01:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*60 - 124*		*10/18/23 01:10*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*10/18/23 01:10*	*1*
Dibromofluoromethane (Surr)	*106*		*70 - 130*		*10/18/23 01:10*	*1*
Toluene-d8 (Surr)	*109*		*70 - 130*		*10/18/23 01:10*	*1*

Client Sample ID: LC34-DPT0978-038.0-20231011
Lab Sample ID: 670-28455-18

Date Collected: 10/11/23 09:30
Matrix: Water
Date Received: 10/12/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/18/23 01:29	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/18/23 01:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/18/23 01:29	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28455-1

Client Sample ID: LC34-DPT0978-038.0-20231011
Date Collected: 10/11/23 09:30
Date Received: 10/12/23 08:00

Lab Sample ID: 670-28455-18
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/18/23 01:29	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/18/23 01:29	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/18/23 01:29	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/18/23 01:29	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/18/23 01:29	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/18/23 01:29	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/18/23 01:29	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/18/23 01:29	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/18/23 01:29	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/18/23 01:29	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/18/23 01:29	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/18/23 01:29	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/18/23 01:29	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/18/23 01:29	1
Acetone	3.7	U	10	3.7	ug/L			10/18/23 01:29	1
Benzene	0.27	U	1.0	0.27	ug/L			10/18/23 01:29	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/18/23 01:29	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/18/23 01:29	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/18/23 01:29	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/18/23 01:29	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/18/23 01:29	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/18/23 01:29	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/18/23 01:29	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/18/23 01:29	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/18/23 01:29	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/18/23 01:29	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/18/23 01:29	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/18/23 01:29	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/18/23 01:29	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/18/23 01:29	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/18/23 01:29	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/18/23 01:29	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/18/23 01:29	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/18/23 01:29	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/18/23 01:29	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/18/23 01:29	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/18/23 01:29	1
Styrene	0.27	U	1.0	0.27	ug/L			10/18/23 01:29	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/18/23 01:29	1
Toluene	0.25	U	1.0	0.25	ug/L			10/18/23 01:29	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/18/23 01:29	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/18/23 01:29	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/18/23 01:29	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/18/23 01:29	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/18/23 01:29	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/18/23 01:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*60 - 124*		*10/18/23 01:29*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*10/18/23 01:29*	*1*

Client Sample ID: LC34-DPT0978-038.0-20231011
Lab Sample ID: 670-28455-18

Date Collected: 10/11/23 09:30
Matrix: Water
Date Received: 10/12/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*108*		*70 - 130*		*10/18/23 01:29*	*1*
Toluene-d8 (Surr)	*109*		*70 - 130*		*10/18/23 01:29*	*1*

Client Sample ID: LC34-DPT0979-008.0-20231011
Lab Sample ID: 670-28455-19

Date Collected: 10/11/23 10:25
Matrix: Water
Date Received: 10/12/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/18/23 01:48	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/18/23 01:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/18/23 01:48	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/18/23 01:48	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/18/23 01:48	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/18/23 01:48	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/18/23 01:48	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/18/23 01:48	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/18/23 01:48	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/18/23 01:48	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/18/23 01:48	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/18/23 01:48	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/18/23 01:48	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/18/23 01:48	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/18/23 01:48	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/18/23 01:48	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/18/23 01:48	1
Acetone	3.7	U	10	3.7	ug/L			10/18/23 01:48	1
Benzene	0.27	U	1.0	0.27	ug/L			10/18/23 01:48	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/18/23 01:48	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/18/23 01:48	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/18/23 01:48	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/18/23 01:48	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/18/23 01:48	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/18/23 01:48	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/18/23 01:48	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/18/23 01:48	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/18/23 01:48	1
cis-1,2-Dichloroethene	**50**		1.0	0.25	ug/L			10/18/23 01:48	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/18/23 01:48	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/18/23 01:48	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/18/23 01:48	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/18/23 01:48	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/18/23 01:48	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/18/23 01:48	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/18/23 01:48	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/18/23 01:48	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/18/23 01:48	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/18/23 01:48	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/18/23 01:48	1

Client Sample ID: LC34-DPT0979-008.0-20231011
Lab Sample ID: 670-28455-19

Date Collected: 10/11/23 10:25
Matrix: Water
Date Received: 10/12/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.27	U	1.0	0.27	ug/L			10/18/23 01:48	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/18/23 01:48	1
Toluene	0.25	U	1.0	0.25	ug/L			10/18/23 01:48	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/18/23 01:48	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/18/23 01:48	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/18/23 01:48	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/18/23 01:48	1
Vinyl chloride	**63**		1.0	0.40	ug/L			10/18/23 01:48	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/18/23 01:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 124*		*10/18/23 01:48*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/18/23 01:48*	*1*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*10/18/23 01:48*	*1*
Toluene-d8 (Surr)	*109*		*70 - 130*		*10/18/23 01:48*	*1*

Client Sample ID: LC34-DPT0979-013.0-20231011
Lab Sample ID: 670-28455-20

Date Collected: 10/11/23 10:40
Matrix: Water
Date Received: 10/12/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/18/23 02:07	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/18/23 02:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/18/23 02:07	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/18/23 02:07	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/18/23 02:07	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/18/23 02:07	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/18/23 02:07	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/18/23 02:07	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/18/23 02:07	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/18/23 02:07	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/18/23 02:07	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/18/23 02:07	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/18/23 02:07	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/18/23 02:07	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/18/23 02:07	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/18/23 02:07	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/18/23 02:07	1
Acetone	3.7	U	10	3.7	ug/L			10/18/23 02:07	1
Benzene	0.27	U	1.0	0.27	ug/L			10/18/23 02:07	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/18/23 02:07	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/18/23 02:07	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/18/23 02:07	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/18/23 02:07	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/18/23 02:07	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/18/23 02:07	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/18/23 02:07	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/18/23 02:07	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/18/23 02:07	1

Client Sample ID: LC34-DPT0979-013.0-20231011
Lab Sample ID: 670-28455-20

Date Collected: 10/11/23 10:40
Matrix: Water
Date Received: 10/12/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**28**		1.0	0.25	ug/L			10/18/23 02:07	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/18/23 02:07	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/18/23 02:07	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/18/23 02:07	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/18/23 02:07	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/18/23 02:07	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/18/23 02:07	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/18/23 02:07	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/18/23 02:07	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/18/23 02:07	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/18/23 02:07	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/18/23 02:07	1
Styrene	0.27	U	1.0	0.27	ug/L			10/18/23 02:07	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/18/23 02:07	1
Toluene	0.25	U	1.0	0.25	ug/L			10/18/23 02:07	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/18/23 02:07	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/18/23 02:07	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/18/23 02:07	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/18/23 02:07	1
Vinyl chloride	**120**		1.0	0.40	ug/L			10/18/23 02:07	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/18/23 02:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 124*		*10/18/23 02:07*	*1*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*10/18/23 02:07*	*1*
Dibromofluoromethane (Surr)	*107*		*70 - 130*		*10/18/23 02:07*	*1*
Toluene-d8 (Surr)	*105*		*70 - 130*		*10/18/23 02:07*	*1*

Client Sample ID: LC34-DPT0979-018.0-20231011
Lab Sample ID: 670-28455-21

Date Collected: 10/11/23 10:55
Matrix: Water
Date Received: 10/12/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2.1	U	10	2.1	ug/L			10/18/23 04:24	10
1,1,2,2-Tetrachloroethane	4.0	U	10	4.0	ug/L			10/18/23 04:24	10
1,1,2-Trichloro-1,2,2-trifluoroethane	2.3	U	10	2.3	ug/L			10/18/23 04:24	10
1,1,2-Trichloroethane	3.2	U	10	3.2	ug/L			10/18/23 04:24	10
1,1-Dichloroethane	3.3	U	10	3.3	ug/L			10/18/23 04:24	10
1,1-Dichloroethene	3.3	U	10	3.3	ug/L			10/18/23 04:24	10
1,2,4-Trichlorobenzene	5.3	U	50	5.3	ug/L			10/18/23 04:24	10
1,2-Dibromo-3-Chloropropane	18	U	50	18	ug/L			10/18/23 04:24	10
1,2-Dibromoethane (EDB)	3.3	U	10	3.3	ug/L			10/18/23 04:24	10
1,2-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/18/23 04:24	10
1,2-Dichloroethane	2.5	U	10	2.5	ug/L			10/18/23 04:24	10
1,2-Dichloropropane	2.2	U	10	2.2	ug/L			10/18/23 04:24	10
1,3-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/18/23 04:24	10
1,4-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/18/23 04:24	10
2-Butanone (MEK)	64	U	100	64	ug/L			10/18/23 04:24	10
2-Hexanone	32	U	100	32	ug/L			10/18/23 04:24	10

Client Sample ID: LC34-DPT0979-018.0-20231011
Lab Sample ID: 670-28455-21

Date Collected: 10/11/23 10:55
Matrix: Water
Date Received: 10/12/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone	27	U	100	27	ug/L			10/18/23 04:24	10
Acetone	37	U	100	37	ug/L			10/18/23 04:24	10
Benzene	2.7	U	10	2.7	ug/L			10/18/23 04:24	10
Bromodichloromethane	2.5	U	10	2.5	ug/L			10/18/23 04:24	10
Bromoform	5.9	U	10	5.9	ug/L			10/18/23 04:24	10
Bromomethane	37	U	50	37	ug/L			10/18/23 04:24	10
Carbon disulfide	4.3	U	20	4.3	ug/L			10/18/23 04:24	10
Carbon tetrachloride	3.0	U	10	3.0	ug/L			10/18/23 04:24	10
Chlorobenzene	1.5	U	10	1.5	ug/L			10/18/23 04:24	10
Chloroethane	46	U	50	46	ug/L			10/18/23 04:24	10
Chloroform	2.7	U	10	2.7	ug/L			10/18/23 04:24	10
Chloromethane	5.4	U	10	5.4	ug/L			10/18/23 04:24	10
cis-1,2-Dichloroethene	**56**		10	2.5	ug/L			10/18/23 04:24	10
cis-1,3-Dichloropropene	2.6	U	10	2.6	ug/L			10/18/23 04:24	10
Cyclohexane	2.8	U	10	2.8	ug/L			10/18/23 04:24	10
Dibromochloromethane	3.9	U	10	3.9	ug/L			10/18/23 04:24	10
Dichlorodifluoromethane	3.6	U	10	3.6	ug/L			10/18/23 04:24	10
Ethylbenzene	2.0	U	10	2.0	ug/L			10/18/23 04:24	10
Isopropylbenzene	2.6	U	10	2.6	ug/L			10/18/23 04:24	10
m,p-Xylenes	4.9	U	10	4.9	ug/L			10/18/23 04:24	10
Methyl acetate	32	U	50	32	ug/L			10/18/23 04:24	10
Methyl tert-butyl ether	8.1	U	50	8.1	ug/L			10/18/23 04:24	10
Methylene Chloride	32	U	50	32	ug/L			10/18/23 04:24	10
o-Xylene	2.6	U	10	2.6	ug/L			10/18/23 04:24	10
Styrene	2.7	U	10	2.7	ug/L			10/18/23 04:24	10
Tetrachloroethene	3.5	U	10	3.5	ug/L			10/18/23 04:24	10
Toluene	2.5	U	10	2.5	ug/L			10/18/23 04:24	10
trans-1,2-Dichloroethene	3.4	U	10	3.4	ug/L			10/18/23 04:24	10
trans-1,3-Dichloropropene	2.3	U	10	2.3	ug/L			10/18/23 04:24	10
Trichloroethene	2.0	U	10	2.0	ug/L			10/18/23 04:24	10
Trichlorofluoromethane	3.3	U	10	3.3	ug/L			10/18/23 04:24	10
Vinyl chloride	**1100**		10	4.0	ug/L			10/18/23 04:24	10
Xylenes, Total	2.3	U	10	2.3	ug/L			10/18/23 04:24	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 124*		*10/18/23 04:24*	*10*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*10/18/23 04:24*	*10*
Dibromofluoromethane (Surr)	*106*		*70 - 130*		*10/18/23 04:24*	*10*
Toluene-d8 (Surr)	*112*		*70 - 130*		*10/18/23 04:24*	*10*

Client Sample ID: LC34-DPT0979-025.0-20231011
Lab Sample ID: 670-28455-22

Date Collected: 10/11/23 11:10
Matrix: Water
Date Received: 10/12/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.3	U	25	5.3	ug/L			10/17/23 23:47	25
1,1,2,2-Tetrachloroethane	10	U	25	10	ug/L			10/17/23 23:47	25
1,1,2-Trichloro-1,2,2-trifluoroethane	5.8	U	25	5.8	ug/L			10/17/23 23:47	25
1,1,2-Trichloroethane	8.0	U	25	8.0	ug/L			10/17/23 23:47	25

Client Sample ID: LC34-DPT0979-025.0-20231011
Date Collected: 10/11/23 11:10
Date Received: 10/12/23 08:00

Lab Sample ID: 670-28455-22
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	8.3	U	25	8.3	ug/L			10/17/23 23:47	25
1,1-Dichloroethene	8.3	U	25	8.3	ug/L			10/17/23 23:47	25
1,2,4-Trichlorobenzene	13	U	130	13	ug/L			10/17/23 23:47	25
1,2-Dibromo-3-Chloropropane	45	U	130	45	ug/L			10/17/23 23:47	25
1,2-Dibromoethane (EDB)	8.3	U	25	8.3	ug/L			10/17/23 23:47	25
1,2-Dichlorobenzene	7.8	U	25	7.8	ug/L			10/17/23 23:47	25
1,2-Dichloroethane	6.3	U	25	6.3	ug/L			10/17/23 23:47	25
1,2-Dichloropropane	5.5	U	25	5.5	ug/L			10/17/23 23:47	25
1,3-Dichlorobenzene	7.8	U	25	7.8	ug/L			10/17/23 23:47	25
1,4-Dichlorobenzene	7.8	U	25	7.8	ug/L			10/17/23 23:47	25
2-Butanone (MEK)	160	U	250	160	ug/L			10/17/23 23:47	25
2-Hexanone	80	U	250	80	ug/L			10/17/23 23:47	25
4-Methyl-2-pentanone	68	U	250	68	ug/L			10/17/23 23:47	25
Acetone	93	U	250	93	ug/L			10/17/23 23:47	25
Benzene	6.8	U	25	6.8	ug/L			10/17/23 23:47	25
Bromodichloromethane	6.3	U	25	6.3	ug/L			10/17/23 23:47	25
Bromoform	15	U	25	15	ug/L			10/17/23 23:47	25
Bromomethane	93	U	130	93	ug/L			10/17/23 23:47	25
Carbon disulfide	11	U	50	11	ug/L			10/17/23 23:47	25
Carbon tetrachloride	7.5	U	25	7.5	ug/L			10/17/23 23:47	25
Chlorobenzene	3.8	U	25	3.8	ug/L			10/17/23 23:47	25
Chloroethane	120	U	130	120	ug/L			10/17/23 23:47	25
Chloroform	6.8	U	25	6.8	ug/L			10/17/23 23:47	25
Chloromethane	14	U	25	14	ug/L			10/17/23 23:47	25
cis-1,2-Dichloroethene	6.3	U	25	6.3	ug/L			10/17/23 23:47	25
cis-1,3-Dichloropropene	6.5	U	25	6.5	ug/L			10/17/23 23:47	25
Cyclohexane	7.0	U	25	7.0	ug/L			10/17/23 23:47	25
Dibromochloromethane	9.8	U	25	9.8	ug/L			10/17/23 23:47	25
Dichlorodifluoromethane	9.0	U	25	9.0	ug/L			10/17/23 23:47	25
Ethylbenzene	5.0	U	25	5.0	ug/L			10/17/23 23:47	25
Isopropylbenzene	6.5	U	25	6.5	ug/L			10/17/23 23:47	25
m,p-Xylenes	12	U	25	12	ug/L			10/17/23 23:47	25
Methyl acetate	80	U	130	80	ug/L			10/17/23 23:47	25
Methyl tert-butyl ether	20	U	130	20	ug/L			10/17/23 23:47	25
Methylene Chloride	80	U	130	80	ug/L			10/17/23 23:47	25
o-Xylene	6.5	U	25	6.5	ug/L			10/17/23 23:47	25
Styrene	6.8	U	25	6.8	ug/L			10/17/23 23:47	25
Tetrachloroethene	8.8	U	25	8.8	ug/L			10/17/23 23:47	25
Toluene	6.3	U	25	6.3	ug/L			10/17/23 23:47	25
trans-1,2-Dichloroethene	**71**		25	8.5	ug/L			10/17/23 23:47	25
trans-1,3-Dichloropropene	5.8	U	25	5.8	ug/L			10/17/23 23:47	25
Trichloroethene	5.0	U	25	5.0	ug/L			10/17/23 23:47	25
Trichlorofluoromethane	8.3	U	25	8.3	ug/L			10/17/23 23:47	25
Vinyl chloride	**4600**		25	10	ug/L			10/17/23 23:47	25
Xylenes, Total	5.8	U	25	5.8	ug/L			10/17/23 23:47	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 124*		*10/17/23 23:47*	*25*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*10/17/23 23:47*	*25*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*10/17/23 23:47*	*25*

Client Sample ID: LC34-DPT0979-025.0-20231011

Lab Sample ID: 670-28455-22

Date Collected: 10/11/23 11:10

Matrix: Water

Date Received: 10/12/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*70 - 130*		*10/17/23 23:47*	*25*

Client Sample ID: LC34-DPT0979-034.0-20231011

Lab Sample ID: 670-28455-23

Date Collected: 10/11/23 11:30

Matrix: Water

Date Received: 10/12/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/18/23 02:27	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/18/23 02:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/18/23 02:27	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/18/23 02:27	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/18/23 02:27	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/18/23 02:27	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/18/23 02:27	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/18/23 02:27	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/18/23 02:27	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/18/23 02:27	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/18/23 02:27	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/18/23 02:27	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/18/23 02:27	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/18/23 02:27	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/18/23 02:27	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/18/23 02:27	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/18/23 02:27	1
Acetone	3.7	U	10	3.7	ug/L			10/18/23 02:27	1
Benzene	0.27	U	1.0	0.27	ug/L			10/18/23 02:27	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/18/23 02:27	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/18/23 02:27	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/18/23 02:27	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/18/23 02:27	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/18/23 02:27	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/18/23 02:27	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/18/23 02:27	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/18/23 02:27	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/18/23 02:27	1
cis-1,2-Dichloroethene	**7.8**		1.0	0.25	ug/L			10/18/23 02:27	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/18/23 02:27	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/18/23 02:27	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/18/23 02:27	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/18/23 02:27	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/18/23 02:27	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/18/23 02:27	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/18/23 02:27	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/18/23 02:27	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/18/23 02:27	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/18/23 02:27	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/18/23 02:27	1
Styrene	0.27	U	1.0	0.27	ug/L			10/18/23 02:27	1

Client Sample ID: LC34-DPT0979-034.0-20231011
Lab Sample ID: 670-28455-23

Date Collected: 10/11/23 11:30
Matrix: Water
Date Received: 10/12/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/18/23 02:27	1
Toluene	0.25	U	1.0	0.25	ug/L			10/18/23 02:27	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/18/23 02:27	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/18/23 02:27	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/18/23 02:27	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/18/23 02:27	1
Vinyl chloride	**250**		2.0	0.80	ug/L			10/18/23 06:45	2
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/18/23 02:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 124*		*10/18/23 02:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 124*		*10/18/23 06:45*	*2*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*10/18/23 02:27*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*10/18/23 06:45*	*2*
Dibromofluoromethane (Surr)	*110*		*70 - 130*		*10/18/23 02:27*	*1*
Dibromofluoromethane (Surr)	*107*		*70 - 130*		*10/18/23 06:45*	*2*
Toluene-d8 (Surr)	*110*		*70 - 130*		*10/18/23 02:27*	*1*
Toluene-d8 (Surr)	*110*		*70 - 130*		*10/18/23 06:45*	*2*

Client Sample ID: LC34-DPT0979-038.0-20231011
Lab Sample ID: 670-28455-24

Date Collected: 10/11/23 11:50
Matrix: Water
Date Received: 10/12/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/18/23 02:46	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/18/23 02:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/18/23 02:46	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/18/23 02:46	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/18/23 02:46	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/18/23 02:46	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/18/23 02:46	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/18/23 02:46	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/18/23 02:46	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/18/23 02:46	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/18/23 02:46	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/18/23 02:46	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/18/23 02:46	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/18/23 02:46	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/18/23 02:46	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/18/23 02:46	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/18/23 02:46	1
Acetone	3.7	U	10	3.7	ug/L			10/18/23 02:46	1
Benzene	0.27	U	1.0	0.27	ug/L			10/18/23 02:46	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/18/23 02:46	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/18/23 02:46	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/18/23 02:46	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/18/23 02:46	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/18/23 02:46	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/18/23 02:46	1

Client Sample ID: LC34-DPT0979-038.0-20231011
Lab Sample ID: 670-28455-24

Date Collected: 10/11/23 11:50
Matrix: Water
Date Received: 10/12/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	4.6	U	5.0	4.6	ug/L			10/18/23 02:46	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/18/23 02:46	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/18/23 02:46	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/18/23 02:46	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/18/23 02:46	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/18/23 02:46	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/18/23 02:46	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/18/23 02:46	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/18/23 02:46	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/18/23 02:46	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/18/23 02:46	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/18/23 02:46	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/18/23 02:46	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/18/23 02:46	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/18/23 02:46	1
Styrene	0.27	U	1.0	0.27	ug/L			10/18/23 02:46	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/18/23 02:46	1
Toluene	0.25	U	1.0	0.25	ug/L			10/18/23 02:46	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/18/23 02:46	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/18/23 02:46	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/18/23 02:46	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/18/23 02:46	1
Vinyl chloride	**0.97**	**I**	1.0	0.40	ug/L			10/18/23 02:46	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/18/23 02:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 124*		*10/18/23 02:46*	*1*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*10/18/23 02:46*	*1*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*10/18/23 02:46*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*10/18/23 02:46*	*1*

Client Sample ID: LC34-DPT0980-008.0-20231011
Lab Sample ID: 670-28455-25

Date Collected: 10/11/23 12:30
Matrix: Water
Date Received: 10/12/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/18/23 03:05	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/18/23 03:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/18/23 03:05	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/18/23 03:05	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/18/23 03:05	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/18/23 03:05	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/18/23 03:05	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/18/23 03:05	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/18/23 03:05	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/18/23 03:05	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/18/23 03:05	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/18/23 03:05	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/18/23 03:05	1

Client Sample ID: LC34-DPT0980-008.0-20231011
Lab Sample ID: 670-28455-25

Date Collected: 10/11/23 12:30
Matrix: Water
Date Received: 10/12/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/18/23 03:05	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/18/23 03:05	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/18/23 03:05	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/18/23 03:05	1
Acetone	3.7	U	10	3.7	ug/L			10/18/23 03:05	1
Benzene	0.27	U	1.0	0.27	ug/L			10/18/23 03:05	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/18/23 03:05	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/18/23 03:05	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/18/23 03:05	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/18/23 03:05	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/18/23 03:05	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/18/23 03:05	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/18/23 03:05	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/18/23 03:05	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/18/23 03:05	1
cis-1,2-Dichloroethene	**23**		1.0	0.25	ug/L			10/18/23 03:05	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/18/23 03:05	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/18/23 03:05	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/18/23 03:05	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/18/23 03:05	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/18/23 03:05	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/18/23 03:05	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/18/23 03:05	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/18/23 03:05	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/18/23 03:05	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/18/23 03:05	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/18/23 03:05	1
Styrene	0.27	U	1.0	0.27	ug/L			10/18/23 03:05	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/18/23 03:05	1
Toluene	0.25	U	1.0	0.25	ug/L			10/18/23 03:05	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/18/23 03:05	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/18/23 03:05	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/18/23 03:05	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/18/23 03:05	1
Vinyl chloride	**25**		1.0	0.40	ug/L			10/18/23 03:05	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/18/23 03:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 124*		*10/18/23 03:05*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*10/18/23 03:05*	*1*
Dibromofluoromethane (Surr)	*110*		*70 - 130*		*10/18/23 03:05*	*1*
Toluene-d8 (Surr)	*109*		*70 - 130*		*10/18/23 03:05*	*1*

Client Sample ID: LC34-DPT0980-013.0-20231011
Lab Sample ID: 670-28455-26

Date Collected: 10/11/23 12:45
Matrix: Water
Date Received: 10/12/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/18/23 03:24	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28455-1

Client Sample ID: LC34-DPT0980-013.0-20231011
Date Collected: 10/11/23 12:45
Date Received: 10/12/23 08:00

Lab Sample ID: 670-28455-26
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/18/23 03:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/18/23 03:24	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/18/23 03:24	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/18/23 03:24	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/18/23 03:24	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/18/23 03:24	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/18/23 03:24	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/18/23 03:24	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/18/23 03:24	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/18/23 03:24	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/18/23 03:24	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/18/23 03:24	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/18/23 03:24	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/18/23 03:24	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/18/23 03:24	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/18/23 03:24	1
Acetone	3.7	U	10	3.7	ug/L			10/18/23 03:24	1
Benzene	0.27	U	1.0	0.27	ug/L			10/18/23 03:24	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/18/23 03:24	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/18/23 03:24	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/18/23 03:24	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/18/23 03:24	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/18/23 03:24	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/18/23 03:24	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/18/23 03:24	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/18/23 03:24	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/18/23 03:24	1
cis-1,2-Dichloroethene	**20**		1.0	0.25	ug/L			10/18/23 03:24	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/18/23 03:24	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/18/23 03:24	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/18/23 03:24	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/18/23 03:24	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/18/23 03:24	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/18/23 03:24	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/18/23 03:24	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/18/23 03:24	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/18/23 03:24	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/18/23 03:24	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/18/23 03:24	1
Styrene	0.27	U	1.0	0.27	ug/L			10/18/23 03:24	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/18/23 03:24	1
Toluene	0.25	U	1.0	0.25	ug/L			10/18/23 03:24	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/18/23 03:24	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/18/23 03:24	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/18/23 03:24	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/18/23 03:24	1
Vinyl chloride	**31**		1.0	0.40	ug/L			10/18/23 03:24	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/18/23 03:24	1

Client Sample ID: LC34-DPT0980-013.0-20231011

Lab Sample ID: 670-28455-26

Date Collected: 10/11/23 12:45

Matrix: Water

Date Received: 10/12/23 08:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 124*		*10/18/23 03:24*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*10/18/23 03:24*	*1*
Dibromofluoromethane (Surr)	*105*		*70 - 130*		*10/18/23 03:24*	*1*
Toluene-d8 (Surr)	*112*		*70 - 130*		*10/18/23 03:24*	*1*

Client Sample ID: LC34-DPT0980-018.0-20231011

Lab Sample ID: 670-28455-27

Date Collected: 10/11/23 13:00

Matrix: Water

Date Received: 10/12/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/18/23 03:43	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/18/23 03:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/18/23 03:43	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/18/23 03:43	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/18/23 03:43	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/18/23 03:43	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/18/23 03:43	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/18/23 03:43	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/18/23 03:43	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/18/23 03:43	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/18/23 03:43	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/18/23 03:43	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/18/23 03:43	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/18/23 03:43	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/18/23 03:43	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/18/23 03:43	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/18/23 03:43	1
Acetone	3.7	U	10	3.7	ug/L			10/18/23 03:43	1
Benzene	0.27	U	1.0	0.27	ug/L			10/18/23 03:43	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/18/23 03:43	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/18/23 03:43	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/18/23 03:43	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/18/23 03:43	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/18/23 03:43	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/18/23 03:43	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/18/23 03:43	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/18/23 03:43	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/18/23 03:43	1
cis-1,2-Dichloroethene	**17**		1.0	0.25	ug/L			10/18/23 03:43	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/18/23 03:43	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/18/23 03:43	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/18/23 03:43	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/18/23 03:43	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/18/23 03:43	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/18/23 03:43	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/18/23 03:43	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/18/23 03:43	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/18/23 03:43	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/18/23 03:43	1

Client Sample ID: LC34-DPT0980-018.0-20231011
Lab Sample ID: 670-28455-27

Date Collected: 10/11/23 13:00
Matrix: Water
Date Received: 10/12/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	0.26	U	1.0	0.26	ug/L			10/18/23 03:43	1
Styrene	0.27	U	1.0	0.27	ug/L			10/18/23 03:43	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/18/23 03:43	1
Toluene	0.25	U	1.0	0.25	ug/L			10/18/23 03:43	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/18/23 03:43	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/18/23 03:43	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/18/23 03:43	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/18/23 03:43	1
Vinyl chloride	**4.2**		1.0	0.40	ug/L			10/18/23 03:43	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/18/23 03:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 124*		*10/18/23 03:43*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/18/23 03:43*	*1*
Dibromofluoromethane (Surr)	*106*		*70 - 130*		*10/18/23 03:43*	*1*
Toluene-d8 (Surr)	*109*		*70 - 130*		*10/18/23 03:43*	*1*

Client Sample ID: LC34-DPT0980-025.0-20231011
Lab Sample ID: 670-28455-28

Date Collected: 10/11/23 13:15
Matrix: Water
Date Received: 10/12/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.42	U	2.0	0.42	ug/L			10/18/23 00:29	2
1,1,2,2-Tetrachloroethane	0.80	U	2.0	0.80	ug/L			10/18/23 00:29	2
1,1,2-Trichloro-1,2,2-trifluoroethane	0.46	U	2.0	0.46	ug/L			10/18/23 00:29	2
1,1,2-Trichloroethane	0.64	U	2.0	0.64	ug/L			10/18/23 00:29	2
1,1-Dichloroethane	0.66	U	2.0	0.66	ug/L			10/18/23 00:29	2
1,1-Dichloroethene	0.66	U	2.0	0.66	ug/L			10/18/23 00:29	2
1,2,4-Trichlorobenzene	1.1	U	10	1.1	ug/L			10/18/23 00:29	2
1,2-Dibromo-3-Chloropropane	3.6	U	10	3.6	ug/L			10/18/23 00:29	2
1,2-Dibromoethane (EDB)	0.66	U	2.0	0.66	ug/L			10/18/23 00:29	2
1,2-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/18/23 00:29	2
1,2-Dichloroethane	0.50	U	2.0	0.50	ug/L			10/18/23 00:29	2
1,2-Dichloropropane	0.44	U	2.0	0.44	ug/L			10/18/23 00:29	2
1,3-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/18/23 00:29	2
1,4-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/18/23 00:29	2
2-Butanone (MEK)	13	U	20	13	ug/L			10/18/23 00:29	2
2-Hexanone	6.4	U	20	6.4	ug/L			10/18/23 00:29	2
4-Methyl-2-pentanone	5.4	U	20	5.4	ug/L			10/18/23 00:29	2
Acetone	7.4	U	20	7.4	ug/L			10/18/23 00:29	2
Benzene	0.54	U	2.0	0.54	ug/L			10/18/23 00:29	2
Bromodichloromethane	0.50	U	2.0	0.50	ug/L			10/18/23 00:29	2
Bromoform	1.2	U	2.0	1.2	ug/L			10/18/23 00:29	2
Bromomethane	7.4	U	10	7.4	ug/L			10/18/23 00:29	2
Carbon disulfide	0.86	U	4.0	0.86	ug/L			10/18/23 00:29	2
Carbon tetrachloride	0.60	U	2.0	0.60	ug/L			10/18/23 00:29	2
Chlorobenzene	0.30	U	2.0	0.30	ug/L			10/18/23 00:29	2
Chloroethane	9.2	U	10	9.2	ug/L			10/18/23 00:29	2
Chloroform	0.54	U	2.0	0.54	ug/L			10/18/23 00:29	2

Client Sample ID: LC34-DPT0980-025.0-20231011
Lab Sample ID: 670-28455-28

Date Collected: 10/11/23 13:15
Matrix: Water
Date Received: 10/12/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	1.1	U	2.0	1.1	ug/L			10/18/23 00:29	2
cis-1,2-Dichloroethene	**190**		2.0	0.50	ug/L			10/18/23 00:29	2
cis-1,3-Dichloropropene	0.52	U	2.0	0.52	ug/L			10/18/23 00:29	2
Cyclohexane	0.56	U	2.0	0.56	ug/L			10/18/23 00:29	2
Dibromochloromethane	0.78	U	2.0	0.78	ug/L			10/18/23 00:29	2
Dichlorodifluoromethane	0.72	U	2.0	0.72	ug/L			10/18/23 00:29	2
Ethylbenzene	0.40	U	2.0	0.40	ug/L			10/18/23 00:29	2
Isopropylbenzene	0.52	U	2.0	0.52	ug/L			10/18/23 00:29	2
m,p-Xylenes	0.98	U	2.0	0.98	ug/L			10/18/23 00:29	2
Methyl acetate	6.4	U	10	6.4	ug/L			10/18/23 00:29	2
Methyl tert-butyl ether	1.6	U	10	1.6	ug/L			10/18/23 00:29	2
Methylene Chloride	6.4	U	10	6.4	ug/L			10/18/23 00:29	2
o-Xylene	0.52	U	2.0	0.52	ug/L			10/18/23 00:29	2
Styrene	0.54	U	2.0	0.54	ug/L			10/18/23 00:29	2
Tetrachloroethene	0.70	U	2.0	0.70	ug/L			10/18/23 00:29	2
Toluene	0.50	U	2.0	0.50	ug/L			10/18/23 00:29	2
trans-1,2-Dichloroethene	**3.4**		2.0	0.68	ug/L			10/18/23 00:29	2
trans-1,3-Dichloropropene	0.46	U	2.0	0.46	ug/L			10/18/23 00:29	2
Trichloroethene	0.40	U	2.0	0.40	ug/L			10/18/23 00:29	2
Trichlorofluoromethane	0.66	U	2.0	0.66	ug/L			10/18/23 00:29	2
Vinyl chloride	**370**		2.0	0.80	ug/L			10/18/23 00:29	2
Xylenes, Total	0.46	U	2.0	0.46	ug/L			10/18/23 00:29	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 124*		*10/18/23 00:29*	*2*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*10/18/23 00:29*	*2*
Dibromofluoromethane (Surr)	*108*		*70 - 130*		*10/18/23 00:29*	*2*
Toluene-d8 (Surr)	*110*		*70 - 130*		*10/18/23 00:29*	*2*

Client Sample ID: LC34-DPT0980-034.0-20231011
Lab Sample ID: 670-28455-29

Date Collected: 10/11/23 13:30
Matrix: Water
Date Received: 10/12/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.42	U	2.0	0.42	ug/L			10/18/23 00:51	2
1,1,2,2-Tetrachloroethane	0.80	U	2.0	0.80	ug/L			10/18/23 00:51	2
1,1,2-Trichloro-1,2,2-trifluoroethane	0.46	U	2.0	0.46	ug/L			10/18/23 00:51	2
1,1,2-Trichloroethane	0.64	U	2.0	0.64	ug/L			10/18/23 00:51	2
1,1-Dichloroethane	0.66	U	2.0	0.66	ug/L			10/18/23 00:51	2
1,1-Dichloroethene	0.66	U	2.0	0.66	ug/L			10/18/23 00:51	2
1,2,4-Trichlorobenzene	1.1	U	10	1.1	ug/L			10/18/23 00:51	2
1,2-Dibromo-3-Chloropropane	3.6	U	10	3.6	ug/L			10/18/23 00:51	2
1,2-Dibromoethane (EDB)	0.66	U	2.0	0.66	ug/L			10/18/23 00:51	2
1,2-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/18/23 00:51	2
1,2-Dichloroethane	0.50	U	2.0	0.50	ug/L			10/18/23 00:51	2
1,2-Dichloropropane	0.44	U	2.0	0.44	ug/L			10/18/23 00:51	2
1,3-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/18/23 00:51	2
1,4-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/18/23 00:51	2
2-Butanone (MEK)	13	U	20	13	ug/L			10/18/23 00:51	2

Client Sample ID: LC34-DPT0980-034.0-20231011
Lab Sample ID: 670-28455-29

Date Collected: 10/11/23 13:30
Matrix: Water
Date Received: 10/12/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	6.4	U	20	6.4	ug/L			10/18/23 00:51	2
4-Methyl-2-pentanone	5.4	U	20	5.4	ug/L			10/18/23 00:51	2
Acetone	7.4	U	20	7.4	ug/L			10/18/23 00:51	2
Benzene	0.54	U	2.0	0.54	ug/L			10/18/23 00:51	2
Bromodichloromethane	0.50	U	2.0	0.50	ug/L			10/18/23 00:51	2
Bromoform	1.2	U	2.0	1.2	ug/L			10/18/23 00:51	2
Bromomethane	7.4	U	10	7.4	ug/L			10/18/23 00:51	2
Carbon disulfide	0.86	U	4.0	0.86	ug/L			10/18/23 00:51	2
Carbon tetrachloride	0.60	U	2.0	0.60	ug/L			10/18/23 00:51	2
Chlorobenzene	0.30	U	2.0	0.30	ug/L			10/18/23 00:51	2
Chloroethane	9.2	U	10	9.2	ug/L			10/18/23 00:51	2
Chloroform	0.54	U	2.0	0.54	ug/L			10/18/23 00:51	2
Chloromethane	1.1	U	2.0	1.1	ug/L			10/18/23 00:51	2
cis-1,2-Dichloroethene	**68**		2.0	0.50	ug/L			10/18/23 00:51	2
cis-1,3-Dichloropropene	0.52	U	2.0	0.52	ug/L			10/18/23 00:51	2
Cyclohexane	0.56	U	2.0	0.56	ug/L			10/18/23 00:51	2
Dibromochloromethane	0.78	U	2.0	0.78	ug/L			10/18/23 00:51	2
Dichlorodifluoromethane	0.72	U	2.0	0.72	ug/L			10/18/23 00:51	2
Ethylbenzene	0.40	U	2.0	0.40	ug/L			10/18/23 00:51	2
Isopropylbenzene	0.52	U	2.0	0.52	ug/L			10/18/23 00:51	2
m,p-Xylenes	0.98	U	2.0	0.98	ug/L			10/18/23 00:51	2
Methyl acetate	6.4	U	10	6.4	ug/L			10/18/23 00:51	2
Methyl tert-butyl ether	1.6	U	10	1.6	ug/L			10/18/23 00:51	2
Methylene Chloride	6.4	U	10	6.4	ug/L			10/18/23 00:51	2
o-Xylene	0.52	U	2.0	0.52	ug/L			10/18/23 00:51	2
Styrene	0.54	U	2.0	0.54	ug/L			10/18/23 00:51	2
Tetrachloroethene	0.70	U	2.0	0.70	ug/L			10/18/23 00:51	2
Toluene	0.50	U	2.0	0.50	ug/L			10/18/23 00:51	2
trans-1,2-Dichloroethene	0.68	U	2.0	0.68	ug/L			10/18/23 00:51	2
trans-1,3-Dichloropropene	0.46	U	2.0	0.46	ug/L			10/18/23 00:51	2
Trichloroethene	0.40	U	2.0	0.40	ug/L			10/18/23 00:51	2
Trichlorofluoromethane	0.66	U	2.0	0.66	ug/L			10/18/23 00:51	2
Vinyl chloride	**310**		2.0	0.80	ug/L			10/18/23 00:51	2
Xylenes, Total	0.46	U	2.0	0.46	ug/L			10/18/23 00:51	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 124*		*10/18/23 00:51*	*2*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/18/23 00:51*	*2*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*10/18/23 00:51*	*2*
Toluene-d8 (Surr)	*110*		*70 - 130*		*10/18/23 00:51*	*2*

Client Sample ID: LC34-DPT0980-038.0 -20231011
Lab Sample ID: 670-28455-30

Date Collected: 10/11/23 13:50
Matrix: Water
Date Received: 10/12/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/18/23 04:02	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/18/23 04:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/18/23 04:02	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28455-1

Client Sample ID: LC34-DPT0980-038.0 -20231011
Date Collected: 10/11/23 13:50
Date Received: 10/12/23 08:00

Lab Sample ID: 670-28455-30
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/18/23 04:02	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/18/23 04:02	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/18/23 04:02	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/18/23 04:02	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/18/23 04:02	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/18/23 04:02	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/18/23 04:02	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/18/23 04:02	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/18/23 04:02	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/18/23 04:02	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/18/23 04:02	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/18/23 04:02	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/18/23 04:02	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/18/23 04:02	1
Acetone	3.7	U	10	3.7	ug/L			10/18/23 04:02	1
Benzene	0.27	U	1.0	0.27	ug/L			10/18/23 04:02	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/18/23 04:02	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/18/23 04:02	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/18/23 04:02	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/18/23 04:02	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/18/23 04:02	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/18/23 04:02	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/18/23 04:02	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/18/23 04:02	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/18/23 04:02	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/18/23 04:02	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/18/23 04:02	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/18/23 04:02	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/18/23 04:02	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/18/23 04:02	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/18/23 04:02	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/18/23 04:02	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/18/23 04:02	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/18/23 04:02	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/18/23 04:02	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/18/23 04:02	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/18/23 04:02	1
Styrene	0.27	U	1.0	0.27	ug/L			10/18/23 04:02	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/18/23 04:02	1
Toluene	0.25	U	1.0	0.25	ug/L			10/18/23 04:02	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/18/23 04:02	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/18/23 04:02	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/18/23 04:02	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/18/23 04:02	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/18/23 04:02	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/18/23 04:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*60 - 124*		*10/18/23 04:02*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*10/18/23 04:02*	*1*

Client: Tetra Tech, Inc.
Job ID: 670-28455-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT0980-038.0 -20231011
Lab Sample ID: 670-28455-30
Date Collected: 10/11/23 13:50
Matrix: Water
Date Received: 10/12/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*107*		*70 - 130*		*10/18/23 04:02*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*10/18/23 04:02*	*1*

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28455-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(60-124)	(70-130)	(70-130)	(70-130)
670-28455-1	LC34-DPT0976-008.0 -20231010	84	103	93	99
670-28455-2	LC34-DPT0976-013.0-20231010	84	103	93	100
670-28455-3	LC34-DPT0976-018.0-20231010	85	99	93	100
670-28455-4	LC34-DPT0976-025.0-20231010	86	101	93	100
670-28455-5	LC34-DPT0976-034.0-20231010	85	101	94	98
670-28455-6	LC34-DPT0976-038.0 -20231010	86	102	93	98
670-28455-7	LC34-DPT0977-008.0-20231010	86	101	93	99
670-28455-8	LC34-DPT0977-013.0-20231010	85	99	95	98
670-28455-9	LC34-DPT0977-018.0-20231010	86	100	94	101
670-28455-10	LC34-DPT0977-025.0-20231010	85	102	93	100
670-28455-11	LC34-DPT0977-034.0-20231010	86	99	95	98
670-28455-12	LC34-DPT0977-038.0-20231011	87	99	93	99
670-28455-13	LC34-DPT0978-008.0-20231011	87	101	94	99
670-28455-14	LC34-DPT0978-013.0-20231011	86	97	96	99
670-28455-15	LC34-DPT0978-018.0-20231011	88	98	94	99
670-28455-16	LC34-DPT0978-025.0-20231011	98	104	109	108
670-28455-17	LC34-DPT0978-034.0-20231011	93	100	106	109
670-28455-18	LC34-DPT0978-038.0-20231011	96	99	108	109
670-28455-19	LC34-DPT0979-008.0-20231011	100	101	109	109
670-28455-20	LC34-DPT0979-013.0-20231011	97	95	107	105
670-28455-21	LC34-DPT0979-018.0-20231011	102	97	106	112
670-28455-22	LC34-DPT0979-025.0-20231011	101	100	109	103
670-28455-23	LC34-DPT0979-034.0-20231011	100	99	110	110
670-28455-23	LC34-DPT0979-034.0-20231011	104	100	107	110
670-28455-24	LC34-DPT0979-038.0-20231011	101	96	109	102
670-28455-25	LC34-DPT0980-008.0-20231011	99	99	110	109
670-28455-26	LC34-DPT0980-013.0-20231011	98	100	105	112
670-28455-27	LC34-DPT0980-018.0-20231011	97	101	106	109

Surrogate Summary

Client: Tetra Tech, Inc.
Job ID: 670-28455-1
Project/Site: NASA KSC LC34 DPT

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Matrix: Water
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(60-124)	(70-130)	(70-130)	(70-130)
670-28455-28	LC34-DPT0980-025.0-20231011	101	100	108	110
670-28455-29	LC34-DPT0980-034.0-20231011	99	101	104	110
670-28455-30	LC34-DPT0980-038.0-20231011	96	98	107	104
LCS 680-802762/4	Lab Control Sample	110	95	112	95
LCS 680-803143/3	Lab Control Sample	92	94	98	95
LCSD 680-802762/5	Lab Control Sample Dup	113	99	112	96
LCSD 680-803143/4	Lab Control Sample Dup	101	96	94	95
MB 680-802762/8	Method Blank	83	103	93	101
MB 680-803143/7	Method Blank	97	98	106	106

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 680-802762/8
Matrix: Water
Analysis Batch: 802762

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/16/23 14:38	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/16/23 14:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/16/23 14:38	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/16/23 14:38	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/16/23 14:38	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/16/23 14:38	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/16/23 14:38	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/16/23 14:38	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/16/23 14:38	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/16/23 14:38	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/16/23 14:38	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/16/23 14:38	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/16/23 14:38	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/16/23 14:38	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/16/23 14:38	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/16/23 14:38	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/16/23 14:38	1
Acetone	3.7	U	10	3.7	ug/L			10/16/23 14:38	1
Benzene	0.27	U	1.0	0.27	ug/L			10/16/23 14:38	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/16/23 14:38	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/16/23 14:38	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/16/23 14:38	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/16/23 14:38	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/16/23 14:38	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/16/23 14:38	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/16/23 14:38	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/16/23 14:38	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/16/23 14:38	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/16/23 14:38	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/16/23 14:38	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/16/23 14:38	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/16/23 14:38	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/16/23 14:38	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/16/23 14:38	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/16/23 14:38	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/16/23 14:38	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/16/23 14:38	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/16/23 14:38	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/16/23 14:38	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/16/23 14:38	1
Styrene	0.27	U	1.0	0.27	ug/L			10/16/23 14:38	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/16/23 14:38	1
Toluene	0.25	U	1.0	0.25	ug/L			10/16/23 14:38	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/16/23 14:38	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/16/23 14:38	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/16/23 14:38	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/16/23 14:38	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/16/23 14:38	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-802762/8
Matrix: Water
Analysis Batch: 802762

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/16/23 14:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*83*		*60 - 124*		*10/16/23 14:38*	*1*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*10/16/23 14:38*	*1*
Dibromofluoromethane (Surr)	*93*		*70 - 130*		*10/16/23 14:38*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/16/23 14:38*	*1*

Lab Sample ID: LCS 680-802762/4
Matrix: Water
Analysis Batch: 802762

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	56.4		ug/L		113	70 - 130
1,1,2,2-Tetrachloroethane	50.0	52.8		ug/L		106	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	47.0		ug/L		94	63 - 141
1,1,2-Trichloroethane	50.0	47.2		ug/L		94	70 - 130
1,1-Dichloroethane	50.0	58.3		ug/L		117	70 - 130
1,1-Dichloroethene	50.0	46.1		ug/L		92	70 - 130
1,2,4-Trichlorobenzene	50.0	51.5		ug/L		103	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	51.4		ug/L		103	70 - 130
1,2-Dibromoethane (EDB)	50.0	50.3		ug/L		101	70 - 130
1,2-Dichlorobenzene	50.0	50.8		ug/L		102	70 - 130
1,2-Dichloroethane	50.0	57.0		ug/L		114	70 - 130
1,2-Dichloropropane	50.0	48.1		ug/L		96	70 - 130
1,3-Dichlorobenzene	50.0	50.1		ug/L		100	70 - 130
1,4-Dichlorobenzene	50.0	49.6		ug/L		99	70 - 130
2-Butanone (MEK)	250	347	J3	ug/L		139	69 - 120
2-Hexanone	250	319		ug/L		128	70 - 130
4-Methyl-2-pentanone	250	291		ug/L		116	68 - 120
Acetone	250	410	J3	ug/L		164	67 - 120
Benzene	50.0	51.5		ug/L		103	70 - 130
Bromodichloromethane	50.0	51.3		ug/L		103	70 - 130
Bromoform	50.0	46.2		ug/L		92	69 - 129
Bromomethane	50.0	42.7		ug/L		85	28 - 192
Carbon disulfide	50.0	58.2		ug/L		116	70 - 130
Carbon tetrachloride	50.0	54.3		ug/L		109	70 - 130
Chlorobenzene	50.0	50.3		ug/L		101	70 - 130
Chloroethane	50.0	45.8		ug/L		92	31 - 213
Chloroform	50.0	52.2		ug/L		104	70 - 130
Chloromethane	50.0	62.5		ug/L		125	59 - 127
cis-1,2-Dichloroethene	50.0	57.2		ug/L		114	70 - 130
cis-1,3-Dichloropropene	50.0	45.9		ug/L		92	70 - 130
Cyclohexane	50.0	51.1		ug/L		102	23 - 175
Dibromochloromethane	50.0	46.7		ug/L		93	70 - 130
Dichlorodifluoromethane	50.0	52.1		ug/L		104	70 - 130
Ethylbenzene	50.0	51.6		ug/L		103	70 - 130
Isopropylbenzene	50.0	53.3		ug/L		107	70 - 130

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-802762/4
Matrix: Water
Analysis Batch: 802762

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
m,p-Xylenes	50.0	51.7		ug/L		103	70 - 130
Methyl acetate	100	97.9		ug/L		98	67 - 120
Methyl tert-butyl ether	50.0	49.3		ug/L		99	70 - 130
Methylene Chloride	50.0	60.4		ug/L		121	70 - 130
o-Xylene	50.0	52.5		ug/L		105	70 - 130
Styrene	50.0	54.7		ug/L		109	70 - 130
Tetrachloroethene	50.0	54.7		ug/L		109	70 - 130
Toluene	50.0	57.9		ug/L		116	70 - 130
trans-1,2-Dichloroethene	50.0	60.2		ug/L		120	70 - 130
trans-1,3-Dichloropropene	50.0	45.4		ug/L		91	70 - 130
Trichloroethene	50.0	48.9		ug/L		98	70 - 130
Trichlorofluoromethane	50.0	56.4		ug/L		113	63 - 142
Vinyl chloride	50.0	58.6		ug/L		117	66 - 129
Xylenes, Total	100	104		ug/L		104	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*110*		*60 - 124*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
Dibromofluoromethane (Surr)	*112*		*70 - 130*
Toluene-d8 (Surr)	*95*		*70 - 130*

Lab Sample ID: LCSD 680-802762/5
Matrix: Water
Analysis Batch: 802762

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	50.0	56.0		ug/L		112	70 - 130	1	30
1,1,2,2-Tetrachloroethane	50.0	55.8		ug/L		112	70 - 130	6	30
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	45.6		ug/L		91	63 - 141	3	30
1,1,2-Trichloroethane	50.0	52.7		ug/L		105	70 - 130	11	30
1,1-Dichloroethane	50.0	58.2		ug/L		116	70 - 130	0	30
1,1-Dichloroethene	50.0	44.7		ug/L		89	70 - 130	3	20
1,2,4-Trichlorobenzene	50.0	52.3		ug/L		105	70 - 130	2	30
1,2-Dibromo-3-Chloropropane	50.0	51.7		ug/L		103	70 - 130	1	30
1,2-Dibromoethane (EDB)	50.0	55.2		ug/L		110	70 - 130	9	30
1,2-Dichlorobenzene	50.0	51.6		ug/L		103	70 - 130	2	30
1,2-Dichloroethane	50.0	54.7		ug/L		109	70 - 130	4	50
1,2-Dichloropropane	50.0	49.2		ug/L		98	70 - 130	2	20
1,3-Dichlorobenzene	50.0	50.7		ug/L		101	70 - 130	1	30
1,4-Dichlorobenzene	50.0	50.2		ug/L		100	70 - 130	1	30
2-Butanone (MEK)	250	300		ug/L		120	69 - 120	15	30
2-Hexanone	250	325		ug/L		130	70 - 130	2	20
4-Methyl-2-pentanone	250	304	J3	ug/L		122	68 - 120	5	30
Acetone	250	288	J3	ug/L		115	67 - 120	35	30
Benzene	50.0	51.5		ug/L		103	70 - 130	0	30
Bromodichloromethane	50.0	53.3		ug/L		107	70 - 130	4	30
Bromoform	50.0	51.9		ug/L		104	69 - 129	12	30
Bromomethane	50.0	55.5		ug/L		111	28 - 192	26	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-802762/5
Matrix: Water
Analysis Batch: 802762

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon disulfide	50.0	57.1		ug/L		114	70 - 130	2	30
Carbon tetrachloride	50.0	53.3		ug/L		107	70 - 130	2	30
Chlorobenzene	50.0	50.7		ug/L		101	70 - 130	1	30
Chloroethane	50.0	54.9		ug/L		110	31 - 213	18	30
Chloroform	50.0	52.7		ug/L		105	70 - 130	1	30
Chloromethane	50.0	60.1		ug/L		120	59 - 127	4	30
cis-1,2-Dichloroethene	50.0	56.2		ug/L		112	70 - 130	2	30
cis-1,3-Dichloropropene	50.0	48.2		ug/L		96	70 - 130	5	20
Cyclohexane	50.0	50.2		ug/L		100	23 - 175	2	30
Dibromochloromethane	50.0	51.6		ug/L		103	70 - 130	10	30
Dichlorodifluoromethane	50.0	50.1		ug/L		100	70 - 130	4	40
Ethylbenzene	50.0	51.4		ug/L		103	70 - 130	0	20
Isopropylbenzene	50.0	53.1		ug/L		106	70 - 130	0	30
m,p-Xylenes	50.0	51.5		ug/L		103	70 - 130	0	30
Methyl acetate	100	110		ug/L		110	67 - 120	12	30
Methyl tert-butyl ether	50.0	54.3		ug/L		109	70 - 130	10	30
Methylene Chloride	50.0	55.1		ug/L		110	70 - 130	9	30
o-Xylene	50.0	53.0		ug/L		106	70 - 130	1	30
Styrene	50.0	54.4		ug/L		109	70 - 130	0	30
Tetrachloroethene	50.0	54.2		ug/L		108	70 - 130	1	30
Toluene	50.0	57.7		ug/L		115	70 - 130	0	30
trans-1,2-Dichloroethene	50.0	57.4		ug/L		115	70 - 130	5	30
trans-1,3-Dichloropropene	50.0	50.5		ug/L		101	70 - 130	11	30
Trichloroethene	50.0	48.3		ug/L		97	70 - 130	1	30
Trichlorofluoromethane	50.0	43.7		ug/L		87	63 - 142	26	30
Vinyl chloride	50.0	55.6		ug/L		111	66 - 129	5	30
Xylenes, Total	100	105		ug/L		105	70 - 130	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*113*		*60 - 124*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*112*		*70 - 130*
Toluene-d8 (Surr)	*96*		*70 - 130*

Lab Sample ID: MB 680-803143/7
Matrix: Water
Analysis Batch: 803143

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/17/23 22:53	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/17/23 22:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/17/23 22:53	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/17/23 22:53	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/17/23 22:53	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/17/23 22:53	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/17/23 22:53	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/17/23 22:53	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/17/23 22:53	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-803143/7
Matrix: Water
Analysis Batch: 803143

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 22:53	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/17/23 22:53	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/17/23 22:53	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 22:53	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 22:53	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/17/23 22:53	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/17/23 22:53	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/17/23 22:53	1
Acetone	3.7	U	10	3.7	ug/L			10/17/23 22:53	1
Benzene	0.27	U	1.0	0.27	ug/L			10/17/23 22:53	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/17/23 22:53	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/17/23 22:53	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/17/23 22:53	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/17/23 22:53	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/17/23 22:53	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/17/23 22:53	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/17/23 22:53	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/17/23 22:53	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/17/23 22:53	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/17/23 22:53	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/17/23 22:53	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/17/23 22:53	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/17/23 22:53	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/17/23 22:53	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/17/23 22:53	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/17/23 22:53	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/17/23 22:53	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/17/23 22:53	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/17/23 22:53	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/17/23 22:53	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/17/23 22:53	1
Styrene	0.27	U	1.0	0.27	ug/L			10/17/23 22:53	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/17/23 22:53	1
Toluene	0.25	U	1.0	0.25	ug/L			10/17/23 22:53	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/17/23 22:53	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/17/23 22:53	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/17/23 22:53	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/17/23 22:53	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/17/23 22:53	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/17/23 22:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 124*		*10/17/23 22:53*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*10/17/23 22:53*	*1*
Dibromofluoromethane (Surr)	*106*		*70 - 130*		*10/17/23 22:53*	*1*
Toluene-d8 (Surr)	*106*		*70 - 130*		*10/17/23 22:53*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-803143/3
Matrix: Water
Analysis Batch: 803143

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	52.3		ug/L		105	70 - 130
1,1,2,2-Tetrachloroethane	50.0	53.2		ug/L		106	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	48.9		ug/L		98	63 - 141
1,1,2-Trichloroethane	50.0	54.0		ug/L		108	70 - 130
1,1-Dichloroethane	50.0	52.4		ug/L		105	70 - 130
1,1-Dichloroethene	50.0	46.3		ug/L		93	70 - 130
1,2,4-Trichlorobenzene	50.0	48.7		ug/L		97	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	52.5		ug/L		105	70 - 130
1,2-Dibromoethane (EDB)	50.0	48.1		ug/L		96	70 - 130
1,2-Dichlorobenzene	50.0	50.8		ug/L		102	70 - 130
1,2-Dichloroethane	50.0	50.7		ug/L		101	70 - 130
1,2-Dichloropropane	50.0	51.3		ug/L		103	70 - 130
1,3-Dichlorobenzene	50.0	48.5		ug/L		97	70 - 130
1,4-Dichlorobenzene	50.0	49.1		ug/L		98	70 - 130
2-Butanone (MEK)	250	219		ug/L		88	69 - 120
2-Hexanone	250	245		ug/L		98	70 - 130
4-Methyl-2-pentanone	250	246		ug/L		98	68 - 120
Acetone	250	267		ug/L		107	67 - 120
Benzene	50.0	49.6		ug/L		99	70 - 130
Bromodichloromethane	50.0	47.6		ug/L		95	70 - 130
Bromoform	50.0	47.8		ug/L		96	69 - 129
Bromomethane	50.0	52.5		ug/L		105	28 - 192
Carbon disulfide	50.0	55.3		ug/L		111	70 - 130
Carbon tetrachloride	50.0	53.3		ug/L		107	70 - 130
Chlorobenzene	50.0	48.2		ug/L		96	70 - 130
Chloroethane	50.0	50.0		ug/L		100	31 - 213
Chloroform	50.0	43.5		ug/L		87	70 - 130
Chloromethane	50.0	50.6		ug/L		101	59 - 127
cis-1,2-Dichloroethene	50.0	49.5		ug/L		99	70 - 130
cis-1,3-Dichloropropene	50.0	55.3		ug/L		111	70 - 130
Cyclohexane	50.0	55.8		ug/L		112	23 - 175
Dibromochloromethane	50.0	50.7		ug/L		101	70 - 130
Dichlorodifluoromethane	50.0	43.9		ug/L		88	70 - 130
Ethylbenzene	50.0	49.4		ug/L		99	70 - 130
Isopropylbenzene	50.0	49.6		ug/L		99	70 - 130
m,p-Xylenes	50.0	48.6		ug/L		97	70 - 130
Methyl acetate	100	94.9		ug/L		95	67 - 120
Methyl tert-butyl ether	50.0	52.2		ug/L		104	70 - 130
Methylene Chloride	50.0	53.3		ug/L		107	70 - 130
o-Xylene	50.0	48.0		ug/L		96	70 - 130
Styrene	50.0	46.9		ug/L		94	70 - 130
Tetrachloroethene	50.0	51.2		ug/L		102	70 - 130
Toluene	50.0	50.7		ug/L		101	70 - 130
trans-1,2-Dichloroethene	50.0	49.6		ug/L		99	70 - 130
trans-1,3-Dichloropropene	50.0	49.2		ug/L		98	70 - 130
Trichloroethene	50.0	51.9		ug/L		104	70 - 130
Trichlorofluoromethane	50.0	52.1		ug/L		104	63 - 142
Vinyl chloride	50.0	51.0		ug/L		102	66 - 129

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-803143/3
Matrix: Water
Analysis Batch: 803143

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Xylenes, Total			100	96.6		ug/L		97	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*60 - 124*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
Dibromofluoromethane (Surr)	*98*		*70 - 130*
Toluene-d8 (Surr)	*95*		*70 - 130*

Lab Sample ID: LCSD 680-803143/4
Matrix: Water
Analysis Batch: 803143

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane			50.0	52.6		ug/L		105	70 - 130	1	30
1,1,2,2-Tetrachloroethane			50.0	55.4		ug/L		111	70 - 130	4	30
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	48.6		ug/L		97	63 - 141	1	30
1,1,2-Trichloroethane			50.0	53.1		ug/L		106	70 - 130	2	30
1,1-Dichloroethane			50.0	52.5		ug/L		105	70 - 130	0	30
1,1-Dichloroethene			50.0	45.5		ug/L		91	70 - 130	2	20
1,2,4-Trichlorobenzene			50.0	49.0		ug/L		98	70 - 130	1	30
1,2-Dibromo-3-Chloropropane			50.0	53.6		ug/L		107	70 - 130	2	30
1,2-Dibromoethane (EDB)			50.0	47.7		ug/L		95	70 - 130	1	30
1,2-Dichlorobenzene			50.0	51.3		ug/L		103	70 - 130	1	30
1,2-Dichloroethane			50.0	50.7		ug/L		101	70 - 130	0	50
1,2-Dichloropropane			50.0	51.7		ug/L		103	70 - 130	1	20
1,3-Dichlorobenzene			50.0	49.5		ug/L		99	70 - 130	2	30
1,4-Dichlorobenzene			50.0	48.4		ug/L		97	70 - 130	1	30
2-Butanone (MEK)			250	248		ug/L		99	69 - 120	13	30
2-Hexanone			250	265		ug/L		106	70 - 130	8	20
4-Methyl-2-pentanone			250	268		ug/L		107	68 - 120	9	30
Acetone			250	265		ug/L		106	67 - 120	1	30
Benzene			50.0	52.3		ug/L		105	70 - 130	5	30
Bromodichloromethane			50.0	48.4		ug/L		97	70 - 130	2	30
Bromoform			50.0	45.9		ug/L		92	69 - 129	4	30
Bromomethane			50.0	52.0		ug/L		104	28 - 192	1	30
Carbon disulfide			50.0	54.3		ug/L		109	70 - 130	2	30
Carbon tetrachloride			50.0	54.3		ug/L		109	70 - 130	2	30
Chlorobenzene			50.0	48.3		ug/L		97	70 - 130	0	30
Chloroethane			50.0	49.0		ug/L		98	31 - 213	2	30
Chloroform			50.0	44.7		ug/L		89	70 - 130	3	30
Chloromethane			50.0	48.8		ug/L		98	59 - 127	4	30
cis-1,2-Dichloroethene			50.0	50.3		ug/L		101	70 - 130	2	30
cis-1,3-Dichloropropene			50.0	57.0		ug/L		114	70 - 130	3	20
Cyclohexane			50.0	57.6		ug/L		115	23 - 175	3	30
Dibromochloromethane			50.0	49.1		ug/L		98	70 - 130	3	30
Dichlorodifluoromethane			50.0	43.4		ug/L		87	70 - 130	1	40
Ethylbenzene			50.0	50.3		ug/L		101	70 - 130	2	20
Isopropylbenzene			50.0	49.3		ug/L		99	70 - 130	1	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-803143/4
Matrix: Water
Analysis Batch: 803143

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m,p-Xylenes			50.0	49.6		ug/L		99	70 - 130	2	30
Methyl acetate			100	97.0		ug/L		97	67 - 120	2	30
Methyl tert-butyl ether			50.0	51.5		ug/L		103	70 - 130	1	30
Methylene Chloride			50.0	52.5		ug/L		105	70 - 130	2	30
o-Xylene			50.0	48.2		ug/L		96	70 - 130	0	30
Styrene			50.0	47.6		ug/L		95	70 - 130	1	30
Tetrachloroethene			50.0	49.9		ug/L		100	70 - 130	3	30
Toluene			50.0	52.2		ug/L		104	70 - 130	3	30
trans-1,2-Dichloroethene			50.0	57.4		ug/L		115	70 - 130	15	30
trans-1,3-Dichloropropene			50.0	50.2		ug/L		100	70 - 130	2	30
Trichloroethene			50.0	51.6		ug/L		103	70 - 130	1	30
Trichlorofluoromethane			50.0	42.8		ug/L		86	63 - 142	20	30
Vinyl chloride			50.0	51.1		ug/L		102	66 - 129	0	30
Xylenes, Total			100	97.8		ug/L		98	70 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 124*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
Dibromofluoromethane (Surr)	*94*		*70 - 130*
Toluene-d8 (Surr)	*95*		*70 - 130*

GC/MS VOA

Analysis Batch: 802762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-28455-1	LC34-DPT0976-008.0 -20231010	Total/NA	Water	8260D	
670-28455-2	LC34-DPT0976-013.0-20231010	Total/NA	Water	8260D	
670-28455-3	LC34-DPT0976-018.0-20231010	Total/NA	Water	8260D	
670-28455-4	LC34-DPT0976-025.0-20231010	Total/NA	Water	8260D	
670-28455-5	LC34-DPT0976-034.0-20231010	Total/NA	Water	8260D	
670-28455-6	LC34-DPT0976-038.0 -20231010	Total/NA	Water	8260D	
670-28455-7	LC34-DPT0977-008.0-20231010	Total/NA	Water	8260D	
670-28455-8	LC34-DPT0977-013.0-20231010	Total/NA	Water	8260D	
670-28455-9	LC34-DPT0977-018.0-20231010	Total/NA	Water	8260D	
670-28455-10	LC34-DPT0977-025.0-20231010	Total/NA	Water	8260D	
670-28455-11	LC34-DPT0977-034.0-20231010	Total/NA	Water	8260D	
670-28455-12	LC34-DPT0977-038.0-20231011	Total/NA	Water	8260D	
670-28455-13	LC34-DPT0978-008.0-20231011	Total/NA	Water	8260D	
670-28455-14	LC34-DPT0978-013.0-20231011	Total/NA	Water	8260D	
670-28455-15	LC34-DPT0978-018.0-20231011	Total/NA	Water	8260D	
MB 680-802762/8	Method Blank	Total/NA	Water	8260D	
LCS 680-802762/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-802762/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 803143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-28455-16	LC34-DPT0978-025.0-20231011	Total/NA	Water	8260D	
670-28455-17	LC34-DPT0978-034.0-20231011	Total/NA	Water	8260D	
670-28455-18	LC34-DPT0978-038.0-20231011	Total/NA	Water	8260D	
670-28455-19	LC34-DPT0979-008.0-20231011	Total/NA	Water	8260D	
670-28455-20	LC34-DPT0979-013.0-20231011	Total/NA	Water	8260D	
670-28455-21	LC34-DPT0979-018.0-20231011	Total/NA	Water	8260D	
670-28455-22	LC34-DPT0979-025.0-20231011	Total/NA	Water	8260D	
670-28455-23	LC34-DPT0979-034.0-20231011	Total/NA	Water	8260D	
670-28455-23	LC34-DPT0979-034.0-20231011	Total/NA	Water	8260D	
670-28455-24	LC34-DPT0979-038.0-20231011	Total/NA	Water	8260D	
670-28455-25	LC34-DPT0980-008.0-20231011	Total/NA	Water	8260D	
670-28455-26	LC34-DPT0980-013.0-20231011	Total/NA	Water	8260D	
670-28455-27	LC34-DPT0980-018.0-20231011	Total/NA	Water	8260D	
670-28455-28	LC34-DPT0980-025.0-20231011	Total/NA	Water	8260D	
670-28455-29	LC34-DPT0980-034.0-20231011	Total/NA	Water	8260D	
670-28455-30	LC34-DPT0980-038.0 -20231011	Total/NA	Water	8260D	
MB 680-803143/7	Method Blank	Total/NA	Water	8260D	
LCS 680-803143/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-803143/4	Lab Control Sample Dup	Total/NA	Water	8260D	

Lab Chronicle

Client: Tetra Tech, Inc.
Job ID: 670-28455-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT0976-008.0 -20231010
Lab Sample ID: 670-28455-1
Date Collected: 10/10/23 13:30
Matrix: Water
Date Received: 10/12/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	802762	P1C	EET SAV	10/16/23 15:13

Client Sample ID: LC34-DPT0976-013.0-20231010
Lab Sample ID: 670-28455-2
Date Collected: 10/10/23 13:45
Matrix: Water
Date Received: 10/12/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	802762	P1C	EET SAV	10/16/23 19:37

Client Sample ID: LC34-DPT0976-018.0-20231010
Lab Sample ID: 670-28455-3
Date Collected: 10/10/23 14:00
Matrix: Water
Date Received: 10/12/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	802762	P1C	EET SAV	10/16/23 15:32

Client Sample ID: LC34-DPT0976-025.0-20231010
Lab Sample ID: 670-28455-4
Date Collected: 10/10/23 14:15
Matrix: Water
Date Received: 10/12/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	802762	P1C	EET SAV	10/16/23 15:51

Client Sample ID: LC34-DPT0976-034.0-20231010
Lab Sample ID: 670-28455-5
Date Collected: 10/10/23 14:30
Matrix: Water
Date Received: 10/12/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	802762	P1C	EET SAV	10/16/23 16:10

Client Sample ID: LC34-DPT0976-038.0 -20231010
Lab Sample ID: 670-28455-6
Date Collected: 10/10/23 14:50
Matrix: Water
Date Received: 10/12/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	802762	P1C	EET SAV	10/16/23 16:29

Client Sample ID: LC34-DPT0977-008.0-20231010
Lab Sample ID: 670-28455-7
Date Collected: 10/10/23 15:25
Matrix: Water
Date Received: 10/12/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	802762	P1C	EET SAV	10/16/23 16:47

Lab Chronicle

Client: Tetra Tech, Inc.
Job ID: 670-28455-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT0977-013.0-20231010
Lab Sample ID: 670-28455-8
Date Collected: 10/10/23 15:35
Matrix: Water
Date Received: 10/12/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	802762	P1C	EET SAV	10/16/23 17:06

Client Sample ID: LC34-DPT0977-018.0-20231010
Lab Sample ID: 670-28455-9
Date Collected: 10/10/23 15:50
Matrix: Water
Date Received: 10/12/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	802762	P1C	EET SAV	10/16/23 17:25

Client Sample ID: LC34-DPT0977-025.0-20231010
Lab Sample ID: 670-28455-10
Date Collected: 10/10/23 16:05
Matrix: Water
Date Received: 10/12/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	802762	P1C	EET SAV	10/16/23 17:44

Client Sample ID: LC34-DPT0977-034.0-20231010
Lab Sample ID: 670-28455-11
Date Collected: 10/10/23 16:20
Matrix: Water
Date Received: 10/12/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	802762	P1C	EET SAV	10/16/23 18:03

Client Sample ID: LC34-DPT0977-038.0-20231011
Lab Sample ID: 670-28455-12
Date Collected: 10/11/23 16:40
Matrix: Water
Date Received: 10/12/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	802762	P1C	EET SAV	10/16/23 18:22

Client Sample ID: LC34-DPT0978-008.0-20231011
Lab Sample ID: 670-28455-13
Date Collected: 10/11/23 08:05
Matrix: Water
Date Received: 10/12/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	802762	P1C	EET SAV	10/16/23 18:41

Client Sample ID: LC34-DPT0978-013.0-20231011
Lab Sample ID: 670-28455-14
Date Collected: 10/11/23 08:20
Matrix: Water
Date Received: 10/12/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	802762	P1C	EET SAV	10/16/23 19:00

Lab Chronicle

Client: Tetra Tech, Inc.
Job ID: 670-28455-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT0978-018.0-20231011
Lab Sample ID: 670-28455-15
Date Collected: 10/11/23 08:35
Matrix: Water
Date Received: 10/12/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	802762	P1C	EET SAV	10/16/23 19:18

Client Sample ID: LC34-DPT0978-025.0-20231011
Lab Sample ID: 670-28455-16
Date Collected: 10/11/23 08:50
Matrix: Water
Date Received: 10/12/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		5	803143	Y1S	EET SAV	10/18/23 04:45

Client Sample ID: LC34-DPT0978-034.0-20231011
Lab Sample ID: 670-28455-17
Date Collected: 10/11/23 09:10
Matrix: Water
Date Received: 10/12/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	803143	Y1S	EET SAV	10/18/23 01:10

Client Sample ID: LC34-DPT0978-038.0-20231011
Lab Sample ID: 670-28455-18
Date Collected: 10/11/23 09:30
Matrix: Water
Date Received: 10/12/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	803143	Y1S	EET SAV	10/18/23 01:29

Client Sample ID: LC34-DPT0979-008.0-20231011
Lab Sample ID: 670-28455-19
Date Collected: 10/11/23 10:25
Matrix: Water
Date Received: 10/12/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	803143	Y1S	EET SAV	10/18/23 01:48

Client Sample ID: LC34-DPT0979-013.0-20231011
Lab Sample ID: 670-28455-20
Date Collected: 10/11/23 10:40
Matrix: Water
Date Received: 10/12/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	803143	Y1S	EET SAV	10/18/23 02:07

Client Sample ID: LC34-DPT0979-018.0-20231011
Lab Sample ID: 670-28455-21
Date Collected: 10/11/23 10:55
Matrix: Water
Date Received: 10/12/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		10	803143	Y1S	EET SAV	10/18/23 04:24

Lab Chronicle

Client: Tetra Tech, Inc.
Job ID: 670-28455-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT0979-025.0-20231011
Lab Sample ID: 670-28455-22
Date Collected: 10/11/23 11:10
Matrix: Water
Date Received: 10/12/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		25	803143	Y1S	EET SAV	10/17/23 23:47

Client Sample ID: LC34-DPT0979-034.0-20231011
Lab Sample ID: 670-28455-23
Date Collected: 10/11/23 11:30
Matrix: Water
Date Received: 10/12/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	803143	Y1S	EET SAV	10/18/23 02:27
Total/NA	Analysis	8260D		2	803143	Y1S	EET SAV	10/18/23 06:45

Client Sample ID: LC34-DPT0979-038.0-20231011
Lab Sample ID: 670-28455-24
Date Collected: 10/11/23 11:50
Matrix: Water
Date Received: 10/12/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	803143	Y1S	EET SAV	10/18/23 02:46

Client Sample ID: LC34-DPT0980-008.0-20231011
Lab Sample ID: 670-28455-25
Date Collected: 10/11/23 12:30
Matrix: Water
Date Received: 10/12/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	803143	Y1S	EET SAV	10/18/23 03:05

Client Sample ID: LC34-DPT0980-013.0-20231011
Lab Sample ID: 670-28455-26
Date Collected: 10/11/23 12:45
Matrix: Water
Date Received: 10/12/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	803143	Y1S	EET SAV	10/18/23 03:24

Client Sample ID: LC34-DPT0980-018.0-20231011
Lab Sample ID: 670-28455-27
Date Collected: 10/11/23 13:00
Matrix: Water
Date Received: 10/12/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	803143	Y1S	EET SAV	10/18/23 03:43

Client Sample ID: LC34-DPT0980-025.0-20231011
Lab Sample ID: 670-28455-28
Date Collected: 10/11/23 13:15
Matrix: Water
Date Received: 10/12/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		2	803143	Y1S	EET SAV	10/18/23 00:29

Lab Chronicle

Client: Tetra Tech, Inc.
Job ID: 670-28455-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT0980-034.0-20231011
Lab Sample ID: 670-28455-29
Date Collected: 10/11/23 13:30
Matrix: Water
Date Received: 10/12/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		2	803143	Y1S	EET SAV	10/18/23 00:51

Client Sample ID: LC34-DPT0980-038.0 -20231011
Lab Sample ID: 670-28455-30
Date Collected: 10/11/23 13:50
Matrix: Water
Date Received: 10/12/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	803143	Y1S	EET SAV	10/18/23 04:02

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: Tetra Tech, Inc.
Job ID: 670-28455-1
Project/Site: NASA KSC LC34 DPT

Laboratory: Eurofins Savannah

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
	AFCEE	SAVLAB	
Alabama	State	41450	06-30-24
ANAB	Dept. of Defense ELAP	L2463	09-22-24
Arkansas DEQ	State	19-015-0	02-01-24
California	State	2939	06-30-24
Florida	NELAP	E87052	06-30-24
Georgia	State	E87052	06-30-24
Georgia (DW)	State	803	06-30-24
Guam	State	19-007R	04-17-24
Hawaii	State	<cert No.>	06-30-24
Illinois	NELAP	200022	11-30-23
Indiana	State	C-GA-02	06-30-24
Iowa	State	353	07-01-25
Kentucky (UST)	State	NA	06-30-24
Louisiana	NELAP	30690	06-30-24
Louisiana (All)	NELAP	30690	06-30-24
Louisiana (DW)	State	LA009	12-31-23
Maine	State	GA00006	09-25-24
Maryland	State	250	12-31-23
Massachusetts	State	M-GA006	06-30-24
Michigan	State	9925	06-30-24
Mississippi	State	<cert No.>	06-30-24
Nebraska	State	NE-OS-7-04	06-30-24
New Jersey	NELAP	GA769	06-30-24
New Mexico	State	GA00006	06-30-24
North Carolina (DW)	State	13701	07-31-24
North Carolina (WW/SW)	State	269	12-31-23
Pennsylvania	NELAP	68-00474	06-30-24
Puerto Rico	State	GA00006	01-01-24
South Carolina	State	98001	06-24-24
Tennessee	State	TN02961	06-30-24
Texas	NELAP	T1047004185	11-30-23
Texas	TCEQ Water Supply	T104704185	06-30-24
USDA	US Federal Programs	P330-18-00313	09-03-24
Virginia	NELAP	460161	06-14-24
Wyoming	State	8TMS-L	06-30-24

Method Summary

Client: Tetra Tech, Inc.
Job ID: 670-28455-1
Project/Site: NASA KSC LC34 DPT

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET SAV
5030B	Purge and Trap	SW846	EET SAV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Sample Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28455-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
670-28455-1	LC34-DPT0976-008.0 -20231010	Water	10/10/23 13:30	10/12/23 08:00
670-28455-2	LC34-DPT0976-013.0-20231010	Water	10/10/23 13:45	10/12/23 08:00
670-28455-3	LC34-DPT0976-018.0-20231010	Water	10/10/23 14:00	10/12/23 08:00
670-28455-4	LC34-DPT0976-025.0-20231010	Water	10/10/23 14:15	10/12/23 08:00
670-28455-5	LC34-DPT0976-034.0-20231010	Water	10/10/23 14:30	10/12/23 08:00
670-28455-6	LC34-DPT0976-038.0 -20231010	Water	10/10/23 14:50	10/12/23 08:00
670-28455-7	LC34-DPT0977-008.0-20231010	Water	10/10/23 15:25	10/12/23 08:00
670-28455-8	LC34-DPT0977-013.0-20231010	Water	10/10/23 15:35	10/12/23 08:00
670-28455-9	LC34-DPT0977-018.0-20231010	Water	10/10/23 15:50	10/12/23 08:00
670-28455-10	LC34-DPT0977-025.0-20231010	Water	10/10/23 16:05	10/12/23 08:00
670-28455-11	LC34-DPT0977-034.0-20231010	Water	10/10/23 16:20	10/12/23 08:00
670-28455-12	LC34-DPT0977-038.0-20231011	Water	10/11/23 16:40	10/12/23 08:00
670-28455-13	LC34-DPT0978-008.0-20231011	Water	10/11/23 08:05	10/12/23 08:00
670-28455-14	LC34-DPT0978-013.0-20231011	Water	10/11/23 08:20	10/12/23 08:00
670-28455-15	LC34-DPT0978-018.0-20231011	Water	10/11/23 08:35	10/12/23 08:00
670-28455-16	LC34-DPT0978-025.0-20231011	Water	10/11/23 08:50	10/12/23 08:00
670-28455-17	LC34-DPT0978-034.0-20231011	Water	10/11/23 09:10	10/12/23 08:00
670-28455-18	LC34-DPT0978-038.0-20231011	Water	10/11/23 09:30	10/12/23 08:00
670-28455-19	LC34-DPT0979-008.0-20231011	Water	10/11/23 10:25	10/12/23 08:00
670-28455-20	LC34-DPT0979-013.0-20231011	Water	10/11/23 10:40	10/12/23 08:00
670-28455-21	LC34-DPT0979-018.0-20231011	Water	10/11/23 10:55	10/12/23 08:00
670-28455-22	LC34-DPT0979-025.0-20231011	Water	10/11/23 11:10	10/12/23 08:00
670-28455-23	LC34-DPT0979-034.0-20231011	Water	10/11/23 11:30	10/12/23 08:00
670-28455-24	LC34-DPT0979-038.0-20231011	Water	10/11/23 11:50	10/12/23 08:00
670-28455-25	LC34-DPT0980-008.0-20231011	Water	10/11/23 12:30	10/12/23 08:00
670-28455-26	LC34-DPT0980-013.0-20231011	Water	10/11/23 12:45	10/12/23 08:00
670-28455-27	LC34-DPT0980-018.0-20231011	Water	10/11/23 13:00	10/12/23 08:00
670-28455-28	LC34-DPT0980-025.0-20231011	Water	10/11/23 13:15	10/12/23 08:00
670-28455-29	LC34-DPT0980-034.0-20231011	Water	10/11/23 13:30	10/12/23 08:00
670-28455-30	LC34-DPT0980-038.0 -20231011	Water	10/11/23 13:50	10/12/23 08:00

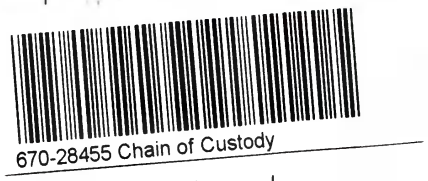
Tetra Tech, Inc.

CHAIN OF CUSTODY | NUMBER No. 3766 | PAGE 1 OF 3

PROJECT NO: 112G08985	FACILITY: KSC-LC34	PROJECT MANAGER Mark Sonner	PHONE NUMBER (412) 921-8622	LABORATORY NAME AND CONTACT: Eurofins — Kaitlin Dylnicki
SAMPLERS (SIGNATURE) - Chuck Sorden		FIELD OPERATIONS LEADER Chuck Sorden	PHONE NUMBER (321) 591-7580	ADDRESS 481 Newburyport Ave.
		CARRIER/WAYBILL NUMBER		CITY, STATE Altamonte Springs, ~~Orlando~~ CS FL

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2023	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)										COMMENTS
									G	G									
									PRESERVATIVE USED		HCl	4°C							
									TYPE OF ANALYSIS		8260D-(MOD) NASA LC34-Custom List	8260D-(MOD) NASA LC34 Custom List							
10/10	1330	LC34-DPT0976-008.0-20231010	81	6	10	GW	G	4	X	X									
	1345	LC34-DPT0976-013.0-20231010		11	15														
	1400	LC34-DPT0976-018.0-20231010		16	20														
	1415	LC34-DPT0976-025.0-20231010		23	27														
	1430	LC34-DPT0976-034.0-20231010		32	36														
	1450	LC34-DPT0976-038.0-20231010	81	36	40														
	1525	LC34-DPT0977-008.0-20231010	92	6	10														
	1535	LC34-DPT0977-013.0-20231010		11	15														
	1550	LC34-DPT0977-018.0-20231010		16	20														
	1605	LC34-DPT0977-025.0-20231010		23	27														
	1620	LC34-DPT0977-034.0-20231010		32	36														
10/10	1640	LC34-DPT0977-038.0-20231010	92	36	40														
10/11	0805	LC34-DPT0978-008.0-20231011	103	6	10	GW	G	4	X	X									



	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	10/11/23	1405	1. RECEIVED BY MC	10/12/23	8:00
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS 0.8/0.3 S96°

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

FORM NO. TtNUS-002 4/02R 11/1/2023

Tetra Tech, Inc.

CHAIN OF CUSTODY | NUMBER No. 3767 | PAGE 2 of 3

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G08985	KSC-LC34	Mark Sonnet	(412) 921-8622	Eurofins — Kaitlin Dylnicki
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER	PHONE NUMBER	ADDRESS
— Chuck Sorden		Chuck Sorden	(321) 591-7580	481 Newburyport Ave
		CARRIER/WAYBILL NUMBER		CITY, STATE
				Altamonte Springs, FL

STANDARD TAT ☒
RUSH TAT ☐ ☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE (YEAR 2023)	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)										COMMENTS
									G	G									
									PRESERVATIVE USED		HCl/4°C	4°C							
									TYPE OF ANALYSIS		8260D-(MOD) NASA LC34 Custom List	8270D-(MOD) NASA LC34 Custom List							
10/11	0820	LC34-DPT0978-013.0-20231011	103	11	15	GW	G	4	X	X									
	0835	LC34-DPT0978-018.0-20231011		16	20														
	0850	LC34-DPT0978-025.0-20231011		23	27														
	0910	LC34-DPT0978-034.0-20231011		32	36														
	0930	LC34-DPT0978-038.0-20231011	103	36	40														
	1025	LC34-DPT0979-008.0-20231011	123	6	10														
	1040	LC34-DPT0979-013.0-20231011		11	15														
	1055	LC34-DPT0979-018.0-20231011		16	20														
	1110	LC34-DPT0979-025.0-20231011		23	27														
	1130	LC34-DPT0979-034.0-20231011		32	36														
	1150	LC34-DPT0979-038.0-20231011	123	36	40														
	1230	LC34-DPT0980-008.0-20231011	124	6	10														
10/11	1245	LC34-DPT0980-013.0-20231011	124	11	15	GW	G	4	X	X									

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	10/11/23	1405	1. RECEIVED BY MC	10/12/23	8:00
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY) 4/02R

Tetra Tech, Inc.

CHAIN OF CUSTODY | NUMBER No. 3768 | PAGE 3 OF 3

PROJECT NO: 112G08985	FACILITY: KSC-LC34	PROJECT MANAGER Mark Sonnet	PHONE NUMBER (412) 921-8622	LABORATORY NAME AND CONTACT: Eurofins — Kaitlin Dylnicki
SAMPLERS (SIGNATURE) ~ Chuck Sorden		FIELD OPERATIONS LEADER Chuck Sorden	PHONE NUMBER (321) 591-7580	ADDRESS 481 Newburyport Ave.
		CARRIER/WAYBILL NUMBER		CITY, STATE Altamonte Springs, FL

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2023	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)		PRESERVATIVE USED		TYPE OF ANALYSIS 8260D-(MOD) NASA LC34 Custom List	TYPE OF ANALYSIS 8260D-(MOD) NASA LC34 Custom List	COMMENTS
									G	G	HCl	4°C			
10/11	1300	LC34-DPT0980-018.0-20231011	124	16	20	GW	G	4	X	X					
↓	1315	LC34-DPT0980-025.0-20231011	↓	23	27	↓	↓	↓	↓	↓					
↓	1330	LC34-DPT0980-034.0-20231011		32	36	↓	↓	↓	↓	↓					
10/11	1350	LC34-DPT0980-038.0-20231011	124	36	40	GW	G	4	X	X					

1. RELINQUISHED BY	DATE 10/11/23	TIME 1405	1. RECEIVED BY MC	DATE 10/12/23	TIME 8:00
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02B

FORM NO. TtNUS-001

Eurofins Orlando
481 Newburyport Avenue
Altamonte Springs, FL 32701
Phone: 407-339-5984 Fax: 407-260-6110

Chain of Custody Record

eurofins
Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Dylnicki, Kaitlin	Carrier Tracking No(s):	COC No: 670-16817.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: kaitlin.dylnicki@et.eurofinsus.com	State of Origin: Florida	Page: Page 1 of 4
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP - Florida		Job #: 670-28455-1
Address: 5102 LaRoche Avenue, .	Due Date Requested: 10/24/2023			
City: Savannah	TAT Requested (days):			
State, Zip: GA, 31404				
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	PO #:			
Email:	WO #:			
Project Name: NASA KSC LC34 DPT	Project #: 67001156			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D/5030B (MOD) NASA LC34 Custom	8260D/5030B_UP (MOD) NASA LC34 Custom	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
LC34-DPT0976-008.0 -20231010 (670-28455-1)	10/10/23	13:30 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0976-013.0-20231010 (670-28455-2)	10/10/23	13:45 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0976-018.0-20231010 (670-28455-3)	10/10/23	14:00 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0976-025.0-20231010 (670-28455-4)	10/10/23	14:15 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0976-034.0-20231010 (670-28455-5)	10/10/23	14:30 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0976-038.0 -20231010 (670-28455-6)	10/10/23	14:50 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0977-008.0-20231010 (670-28455-7)	10/10/23	15:25 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0977-013.0-20231010 (670-28455-8)	10/10/23	15:35 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0977-018.0-20231010 (670-28455-9)	10/10/23	15:50 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	10/12 1420		TH	10-13-23	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				10:07	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Cooler Temperature(s) °C and Other Remarks: 1.0 - 1.9

Eurofins Orlando
481 Newburyport Avenue
Altamonte Springs, FL 32701
Phone: 407-339-5984 Fax: 407-260-6110

Chain of Custody Record

eurofins

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Dylnicki, Kaitlin	Carrier Tracking No(s):	COC No: 670-16817.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: kaitlin.dylnicki@et.eurofinsus.com	State of Origin: Florida	Page: Page 2 of 4
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP - Florida		Job #: 670-28455-1
Address: 5102 LaRoche Avenue, .	Due Date Requested: 10/24/2023			
City: Savannah	TAT Requested (days):			
State, Zip: GA, 31404				
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	PO #:			
Email:	WO #:			
Project Name: NASA KSC LC34 DPT	Project #: 67001156			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D/5030B (MOD) NASA LC34 Custom	8260D/5030B_UP (MOD) NASA LC34 Custom	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
LC34-DPT0977-025.0-20231010 (670-28455-10)	10/10/23	16:05 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0977-034.0-20231010 (670-28455-11)	10/10/23	16:20 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0977-038.0-20231011 (670-28455-12)	10/11/23	16:40 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0978-008.0-20231011 (670-28455-13)	10/11/23	08:05 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0978-013.0-20231011 (670-28455-14)	10/11/23	08:20 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0978-018.0-20231011 (670-28455-15)	10/11/23	08:35 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0978-025.0-20231011 (670-28455-16)	10/11/23	08:50 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0978-034.0-20231011 (670-28455-17)	10/11/23	09:10 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0978-038.0-20231011 (670-28455-18)	10/11/23	09:30 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	10/12 1430			10-13-23	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 10:17	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.0 - 1.9

Ver: 06/08/2021

Eurofins Orlando
481 Newburyport Avenue
Altamonte Springs, FL 32701
Phone: 407-339-5984 Fax: 407-260-6110

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Dylnicki, Kaitlin	Carrier Tracking No(s):	COC No: 670-16817.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: kaitlin.dylnicki@et.eurofinsus.com	State of Origin: Florida	Page: Page 3 of 4
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP - Florida		Job #: 670-28455-1
Address: 5102 LaRoche Avenue, .	Due Date Requested: 10/24/2023			
City: Savannah	TAT Requested (days):			
State, Zip: GA, 31404				
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	PO #:			
Email:	WO #:			
Project Name: NASA KSC LC34 DPT	Project #: 67001156			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D/5030B (MOD) NASA LC34 Custom	8260D/5030B_UP (MOD) NASA LC34 Custom	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
LC34-DPT0979-008.0-20231011 (670-28455-19)	10/11/23	10:25 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0979-013.0-20231011 (670-28455-20)	10/11/23	10:40 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0979-018.0-20231011 (670-28455-21)	10/11/23	10:55 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0979-025.0-20231011 (670-28455-22)	10/11/23	11:10 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0979-034.0-20231011 (670-28455-23)	10/11/23	11:30 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0979-038.0-20231011 (670-28455-24)	10/11/23	11:50 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0980-008.0-20231011 (670-28455-25)	10/11/23	12:30 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0980-013.0-20231011 (670-28455-26)	10/11/23	12:45 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0980-018.0-20231011 (670-28455-27)	10/11/23	13:00 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	10/12 1430		177	10-13-23	
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 16:07	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 1.6 - 1.9

Eurofins Orlando
481 Newburyport Avenue
Altamonte Springs, FL 32701
Phone: 407-339-5984 Fax: 407-260-6110

Chain of Custody Record

eurofins Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Dylnicki, Kaitlin	Carrier Tracking No(s):	COC No: 670-16817.4
Client Contact: Shipping/Receiving	Phone:	E-Mail: kaitlin.dylnicki@et.eurofinsus.com	State of Origin: Florida	Page: Page 4 of 4
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP - Florida		Job #: 670-28455-1
Address: 5102 LaRoche Avenue, ,	Due Date Requested: 10/24/2023			
City: Savannah	TAT Requested (days):			
State, Zip: GA, 31404				
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	PO #:			
Email:	WO #:			
Project Name: NASA KSC LC34 DPT	Project #: 67001156			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wasteoil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D/5030B (MOD) NASA LC34 Custom	8260D/5030B_UP (MOD) NASA LC34 Custom	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
LC34-DPT0980-025.0-20231011 (670-28455-28)	10/11/23	13:15 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0980-034.0-20231011 (670-28455-29)	10/11/23	13:30 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0980-038.0 -20231011 (670-28455-30)	10/11/23	13:50 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	10/12 1430			10-13-23	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 10:07	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.0 - 1.9

Ver: 06/08/2021

Eurofins Orlando
481 Newburyport Avenue
Altamonte Springs, FL 32701
Phone: 407-339-5984 Fax: 407-260-6110

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Dylnicki, Kaitlin	Carrier Tracking No(s):	COC No: 670-16817 1
Client Contact: Shipping/Receiving	Phone:	E-Mail: kaitlin.dylnicki@et.eurofinsus.com	State of Origin: Florida	Page: Page 1 of 4
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP Florida		Job #: 670-28455-1
Address: 5102 LaRoche Avenue,	Due Date Requested: 10/24/2023			
City: Savannah	TAT Requested (days):			
State, Zip: GA, 31404				
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	PO #:			
Email:	WO #:			
Project Name: NASA KSC LC34 DPT	Project #: 67001156			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify)

Other:

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D/5030B (MOD) NASA LC34 Custom	8260D/5030B_UP (MOD) NASA LC34 Custom	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
LC34-DPT0976-008.0 -20231010 (670-28455-1)	10/10/23	13:30 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0976-013.0-20231010 (670-28455-2)	10/10/23	13:45 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0976-018.0-20231010 (670-28455-3)	10/10/23	14:00 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0976-025.0-20231010 (670-28455-4)	10/10/23	14.15 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0976-034.0-20231010 (670-28455-5)	10/10/23	14:30 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0976-038.0 -20231010 (670-28455-6)	10/10/23	14:50 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0977-008.0-20231010 (670-28455-7)	10/10/23	15:25 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0977-013.0-20231010 (670-28455-8)	10/10/23	15:35 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0977-018.0-20231010 (670-28455-9)	10/10/23	15:50 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I II III IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
			1H	10-17-23	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				4:49	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks: 6 + -1

Eurofins Orlando
481 Newburyport Avenue
Altamonte Springs, FL 32701
Phone: 407-339-5984 Fax: 407-260-6110

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler:	Lab PM: Dylnicki, Kaitlin	Carrier Tracking No(s):	COC No: 670-17051.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: kaitlin.dylnicki@et.eurofinsus.com	State of Origin: Florida	Page: Page 3 of 3
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP Florida		Job #: 670-28660-1
Address: 5102 LaRoche Avenue,	Due Date Requested: 10/26/2023			
City: Savannah	TAT Requested (days):			
State, Zip: GA, 31404				
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	PO #:			
Email:	WO #:			
Project Name: NASA KSC LC34 DPT	Project #: 67001156			
Site:	SSOW#:			

Analysis Requested

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D/5030B (MOD) NASA LC34 Custom	8260D/5030B_UP (MOD) NASA LC34 Custom	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X			X	
LC34-DPT0987-038.0-20231013 (670-28660-19)	10/13/23	13:50 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP

Preservation Codes:

A HCL	M Hexane		
B NaOH	N None		
C Zn Acetate	O AsNaO2		
D Nitric Acid	P Na2O4S		
E NaHSO4	Q Na2SO3		
F MeOH	R Na2S2O3		
G Amchlor	S H2SO4		
H Ascorbic Acid	T TSP Dodecahydrate		
I Ice	U Acetone		
J DI Water	V MCAA		
K EDTA	W pH 4-5		
L EDA	Y Trizma		
	Z other (specify)		

Other:

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)***
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested I II, III IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		10/16 1420		JH	10-17-23	
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 9 4/8	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks: 0.6 - 6.9

Eurofins Orlando
481 Newburyport Avenue
Altamonte Springs, FL 32701
Phone: 407-339-5984 Fax: 407-260-6110

Chain of Custody Record

eurofins

Client Information (Sub Contract Lab)	Sampler	Lab PM: Dylnicki, Kaitlin	Carrier Tracking No(s):	COC No: 670-17051.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: kaitlin.dylnicki@et.eurofinsus.com	State of Origin: Florida	Page: Page 2 of 3
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP Florida		Job #: 670-28660-1
Address: 5102 LaRoche Avenue,	Due Date Requested: 10/26/2023			
City: Savannah	TAT Requested (days):			
State, Zip: GA, 31404				
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	PO #:			
Email:	WO #:			
Project Name: NASA KSC LC34 DPT	Project #: 67001156			
Site:	SSOW#:			

Preservation Codes:

A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify)

Other:

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D/5030B (MOD) NASA LC34 Custom	8260D/5030B_UP (MOD) NASA LC34 Custom	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
LC34-DPT0986-018.0-20231013 (670-28660-10)	10/13/23	10:50 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0986-025.0-20231013 (670-28660-11)	10/13/23	11:05 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0986-034.0-20231013 (670-28660-12)	10/13/23	11:25 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0986-038.0-20231013 (670-28660-13)	10/13/23	11:45 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0987-008.0-20231013 (670-28660-14)	10/13/23	12:20 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0987-013.0-20231013 (670-28660-15)	10/13/23	12:35 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0987-018.0-20231013 (670-28660-16)	10/13/23	12:55 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0987-025.0-20231013 (670-28660-17)	10/13/23	13:10 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0987-034.0-20231013 (670-28660-18)	10/13/23	13:30 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	10/16 1426		JH	10-17-23	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				9:48	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks: 0.6 - 0.9

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 670-28455-1

Login Number: 28455

List Number: 1

Creator: Clerisier, Meline

List Source: Eurofins Orlando

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 670-28455-1

Login Number: 28455
List Number: 2
Creator: Munro, Caroline

List Source: Eurofins Savannah
List Creation: 10/13/23 04:49 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 670-28455-1

Login Number: 28455
List Number: 3
Creator: Harley, Tynisha

List Source: Eurofins Savannah
List Creation: 10/17/23 01:49 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Mark Jonnet
Tetra Tech, Inc.
Foster Plaza 7
661 Anderson Drive
Suite 200
Pittsburgh, Pennsylvania 15220-2745

Generated 11/1/2023 4:57:27 PM

JOB DESCRIPTION

NASA KSC LC34 DPT

JOB NUMBER

670-28575-1

Eurofins Orlando
481 Newburyport Avenue
Altamonte Springs FL 32701

See page two for job notes and contact information.

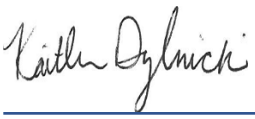
my EOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization



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Authorized for release by
Kaitlin Dylnicki, Project Manager
kaitlin.dylnicki@et.eurofinsus.com
(407)339-5984

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Definitions/Glossary

Client: Tetra Tech, Inc. Job ID: 670-28575-1
Project/Site: NASA KSC LC34 DPT

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
U	Indicates that the compound was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 670-28575-1

Laboratory: Eurofins Orlando

Narrative

Job Narrative
Client: Tetra Tech
Client PM: Mark Jonnet
Project: NASA KSC LC34
Project Number: 112G08985
670-28575-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 10/13/2023 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.3°C

GC/MS VOA
Method 8260D: One of two unpreserved containers for the following sample was received broken: -22C and -22D LC34-DPT0984-025.0-20231012 (670-28575-22).

Method 8260D: The continuing calibration verification (CCV) associated with batch 680-802973 recovered outside acceptance criteria, low biased, for 1,1,2-Trichloroethane, 2-Butanone (MEK) and Acetone. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

Method 8260D: The laboratory control sample (LCS) for analytical batch 680-802973 recovered outside control limits for the following analytes: 1,2,4-Trichlorobenzene. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Method 8260D: The following sample was diluted to bring the concentration of target analytes within the calibration range: LC34-DPT0984-018.0-20231012 (670-28575-21). Elevated reporting limits (RLs) are provided.

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-802973.

Method 8260D: The laboratory control sample duplicate (LCSD) for analytical batch 680-802978 recovered outside control limits for the following analytes: 4-Methyl-2-pentanone. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D: The following samples were diluted to bring the concentration of target analytes within the calibration range: LC34-DPT0982-018.0-20231012 (670-28575-9), LC34-DPT0983-018.0-20231012 (670-28575-15), LC34-DPT0983-025.0-20231012 (670-28575-16), LC34-DPT0983-034.0-20231012 (670-28575-17) and LC34-DPT0984-013.0-20231012 (670-28575-20). Elevated reporting limits (RLs) are provided.

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-802978.

Method 8260D: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 680-803200

Job ID: 670-28575-1 (Continued)

Laboratory: Eurofins Orlando (Continued)

recovered outside control limits for the following analytes: 2-Butanone (MEK), 2-Hexanone and 4-Methyl-2-pentanone. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D: The continuing calibration verification (CCV) analyzed in batch 680-803200 was outside the method criteria for the following analyte(s): 1,2-Dibromo-3-Chloropropane, 2-Butanone (MEK), 2-Hexanone, Acetone, Bromomethane, Chloroethane and Trichlorofluoromethane. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-803200.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Tetra Tech, Inc.
Job ID: 670-28575-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT0981-008.0-20231011 — Lab Sample ID: 670-28575-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	17		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	79		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0981-013.0-20231011 — Lab Sample ID: 670-28575-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	43		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	120		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0981-018.0-20231011 — Lab Sample ID: 670-28575-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	85		1.0	0.25	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	0.85	I	1.0	0.34	ug/L	1		8260D	Total/NA
Vinyl chloride	170		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0981-025.0-20231011 — Lab Sample ID: 670-28575-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.88	I	2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	13		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	65		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0981-034.0-20231011 — Lab Sample ID: 670-28575-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	1.1	I	2.0	0.43	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0981-038.0-20231011 — Lab Sample ID: 670-28575-6

No Detections.

Client Sample ID: LC34-DPT0982-008.0-20231012 — Lab Sample ID: 670-28575-7

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	11		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	15		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0982-013.0-20231012 — Lab Sample ID: 670-28575-8

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	9.2		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	18		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0982-018.0-20231012 — Lab Sample ID: 670-28575-9

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	430		5.0	1.3	ug/L	5		8260D	Total/NA
trans-1,2-Dichloroethene	5.5		5.0	1.7	ug/L	5		8260D	Total/NA
Vinyl chloride	980		5.0	2.0	ug/L	5		8260D	Total/NA

Client Sample ID: LC34-DPT0982-025.0-20231012 — Lab Sample ID: 670-28575-10

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	4.3		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	19		1.0	0.40	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Orlando

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28575-1

Client Sample ID: LC34-DPT0982-034.0-20231012 — Lab Sample ID: 670-28575-11

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.64	I	2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	6.1		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	9.5		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0982-038.0-20231012 — Lab Sample ID: 670-28575-12

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.77	I	2.0	0.43	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0983-008.0-20231012 — Lab Sample ID: 670-28575-13

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	59		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	58		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0983-013.0-20231012 — Lab Sample ID: 670-28575-14

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	47		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	78		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0983-018.0-20231012 — Lab Sample ID: 670-28575-15

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	64		2.0	0.50	ug/L	2		8260D	Total/NA
Vinyl chloride	350		2.0	0.80	ug/L	2		8260D	Total/NA

Client Sample ID: LC34-DPT0983-025.0-20231012 — Lab Sample ID: 670-28575-16

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	6.6	I	20	5.0	ug/L	20		8260D	Total/NA
trans-1,2-Dichloroethene	150		20	6.8	ug/L	20		8260D	Total/NA
Vinyl chloride	2900		20	8.0	ug/L	20		8260D	Total/NA

Client Sample ID: LC34-DPT0983-034.0-20231012 — Lab Sample ID: 670-28575-17

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	2.2	I	4.0	0.86	ug/L	2		8260D	Total/NA
cis-1,2-Dichloroethene	5.3		2.0	0.50	ug/L	2		8260D	Total/NA
Vinyl chloride	340		2.0	0.80	ug/L	2		8260D	Total/NA

Client Sample ID: LC34-DPT0983-038.0-20231012 — Lab Sample ID: 670-28575-18

No Detections.

Client Sample ID: LC34-DPT0984-008.0-20231012 — Lab Sample ID: 670-28575-19

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	15		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	23		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0984-013.0-20231012 — Lab Sample ID: 670-28575-20

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	580		5.0	1.3	ug/L	5		8260D	Total/NA
trans-1,2-Dichloroethene	7.4		5.0	1.7	ug/L	5		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Orlando

Client Sample ID: LC34-DPT0984-013.0-20231012 (Continued) — Lab Sample ID: 670-28575-20

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	670		5.0	2.0	ug/L	5		8260D	Total/NA

Client Sample ID: LC34-DPT0984-018.0-20231012 — Lab Sample ID: 670-28575-21

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1000		25	6.3	ug/L	25		8260D	Total/NA
trans-1,2-Dichloroethene	120		25	8.5	ug/L	25		8260D	Total/NA
Vinyl chloride - DL	3800		50	20	ug/L	50		8260D	Total/NA

Client Sample ID: LC34-DPT0984-025.0-20231012 — Lab Sample ID: 670-28575-22

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	1.1	I	2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	1.5		1.0	0.25	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	74		1.0	0.34	ug/L	1		8260D	Total/NA
Vinyl chloride - DL	6900		100	40	ug/L	100		8260D	Total/NA

Client Sample ID: LC34-DPT0984-034.0-20231012 — Lab Sample ID: 670-28575-23

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	1.4	I	2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	2.8		1.0	0.25	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	0.44	I	1.0	0.34	ug/L	1		8260D	Total/NA
Vinyl chloride - DL	200		5.0	2.0	ug/L	5		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28575-1

Client Sample ID: LC34-DPT0981-008.0-20231011
Date Collected: 10/11/23 14:25
Date Received: 10/13/23 08:00

Lab Sample ID: 670-28575-1
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/17/23 12:52	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/17/23 12:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/17/23 12:52	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/17/23 12:52	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/17/23 12:52	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/17/23 12:52	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/17/23 12:52	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/17/23 12:52	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/17/23 12:52	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 12:52	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/17/23 12:52	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/17/23 12:52	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 12:52	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 12:52	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/17/23 12:52	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/17/23 12:52	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			10/17/23 12:52	1
Acetone	3.7	U	10	3.7	ug/L			10/17/23 12:52	1
Benzene	0.27	U	1.0	0.27	ug/L			10/17/23 12:52	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/17/23 12:52	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/17/23 12:52	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/17/23 12:52	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/17/23 12:52	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/17/23 12:52	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/17/23 12:52	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/17/23 12:52	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/17/23 12:52	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/17/23 12:52	1
cis-1,2-Dichloroethene	**17**		1.0	0.25	ug/L			10/17/23 12:52	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/17/23 12:52	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/17/23 12:52	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/17/23 12:52	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/17/23 12:52	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/17/23 12:52	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/17/23 12:52	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/17/23 12:52	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/17/23 12:52	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/17/23 12:52	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/17/23 12:52	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/17/23 12:52	1
Styrene	0.27	U	1.0	0.27	ug/L			10/17/23 12:52	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/17/23 12:52	1
Toluene	0.25	U	1.0	0.25	ug/L			10/17/23 12:52	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/17/23 12:52	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/17/23 12:52	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/17/23 12:52	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/17/23 12:52	1
Vinyl chloride	**79**		1.0	0.40	ug/L			10/17/23 12:52	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/17/23 12:52	1

Client Sample ID: LC34-DPT0981-008.0-20231011
Lab Sample ID: 670-28575-1

Date Collected: 10/11/23 14:25
Matrix: Water
Date Received: 10/13/23 08:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*87*		*60 - 124*		*10/17/23 12:52*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/17/23 12:52*	*1*
Dibromofluoromethane (Surr)	*93*		*70 - 130*		*10/17/23 12:52*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/17/23 12:52*	*1*

Client Sample ID: LC34-DPT0981-013.0-20231011
Lab Sample ID: 670-28575-2

Date Collected: 10/11/23 14:35
Matrix: Water
Date Received: 10/13/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/17/23 13:11	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/17/23 13:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/17/23 13:11	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/17/23 13:11	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/17/23 13:11	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/17/23 13:11	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/17/23 13:11	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/17/23 13:11	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/17/23 13:11	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 13:11	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/17/23 13:11	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/17/23 13:11	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 13:11	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 13:11	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/17/23 13:11	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/17/23 13:11	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			10/17/23 13:11	1
Acetone	3.7	U	10	3.7	ug/L			10/17/23 13:11	1
Benzene	0.27	U	1.0	0.27	ug/L			10/17/23 13:11	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/17/23 13:11	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/17/23 13:11	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/17/23 13:11	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/17/23 13:11	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/17/23 13:11	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/17/23 13:11	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/17/23 13:11	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/17/23 13:11	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/17/23 13:11	1
cis-1,2-Dichloroethene	**43**		1.0	0.25	ug/L			10/17/23 13:11	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/17/23 13:11	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/17/23 13:11	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/17/23 13:11	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/17/23 13:11	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/17/23 13:11	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/17/23 13:11	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/17/23 13:11	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/17/23 13:11	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/17/23 13:11	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/17/23 13:11	1

Client Sample ID: LC34-DPT0981-013.0-20231011
Lab Sample ID: 670-28575-2

Date Collected: 10/11/23 14:35
Matrix: Water
Date Received: 10/13/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	0.26	U	1.0	0.26	ug/L			10/17/23 13:11	1
Styrene	0.27	U	1.0	0.27	ug/L			10/17/23 13:11	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/17/23 13:11	1
Toluene	0.25	U	1.0	0.25	ug/L			10/17/23 13:11	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/17/23 13:11	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/17/23 13:11	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/17/23 13:11	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/17/23 13:11	1
Vinyl chloride	**120**		1.0	0.40	ug/L			10/17/23 13:11	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/17/23 13:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*60 - 124*		*10/17/23 13:11*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*10/17/23 13:11*	*1*
Dibromofluoromethane (Surr)	*92*		*70 - 130*		*10/17/23 13:11*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/17/23 13:11*	*1*

Client Sample ID: LC34-DPT0981-018.0-20231011
Lab Sample ID: 670-28575-3

Date Collected: 10/11/23 14:50
Matrix: Water
Date Received: 10/13/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/17/23 13:30	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/17/23 13:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/17/23 13:30	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/17/23 13:30	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/17/23 13:30	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/17/23 13:30	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/17/23 13:30	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/17/23 13:30	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/17/23 13:30	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 13:30	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/17/23 13:30	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/17/23 13:30	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 13:30	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 13:30	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/17/23 13:30	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/17/23 13:30	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			10/17/23 13:30	1
Acetone	3.7	U	10	3.7	ug/L			10/17/23 13:30	1
Benzene	0.27	U	1.0	0.27	ug/L			10/17/23 13:30	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/17/23 13:30	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/17/23 13:30	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/17/23 13:30	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/17/23 13:30	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/17/23 13:30	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/17/23 13:30	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/17/23 13:30	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/17/23 13:30	1

Client Sample ID: LC34-DPT0981-018.0-20231011
Lab Sample ID: 670-28575-3

Date Collected: 10/11/23 14:50
Matrix: Water
Date Received: 10/13/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	0.54	U	1.0	0.54	ug/L			10/17/23 13:30	1
cis-1,2-Dichloroethene	**85**		1.0	0.25	ug/L			10/17/23 13:30	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/17/23 13:30	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/17/23 13:30	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/17/23 13:30	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/17/23 13:30	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/17/23 13:30	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/17/23 13:30	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/17/23 13:30	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/17/23 13:30	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/17/23 13:30	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/17/23 13:30	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/17/23 13:30	1
Styrene	0.27	U	1.0	0.27	ug/L			10/17/23 13:30	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/17/23 13:30	1
Toluene	0.25	U	1.0	0.25	ug/L			10/17/23 13:30	1
trans-1,2-Dichloroethene	**0.85**	**I**	1.0	0.34	ug/L			10/17/23 13:30	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/17/23 13:30	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/17/23 13:30	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/17/23 13:30	1
Vinyl chloride	**170**		1.0	0.40	ug/L			10/17/23 13:30	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/17/23 13:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*60 - 124*		*10/17/23 13:30*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/17/23 13:30*	*1*
Dibromofluoromethane (Surr)	*91*		*70 - 130*		*10/17/23 13:30*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*10/17/23 13:30*	*1*

Client Sample ID: LC34-DPT0981-025.0-20231011
Lab Sample ID: 670-28575-4

Date Collected: 10/11/23 15:10
Matrix: Water
Date Received: 10/13/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/17/23 13:49	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/17/23 13:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/17/23 13:49	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/17/23 13:49	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/17/23 13:49	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/17/23 13:49	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/17/23 13:49	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/17/23 13:49	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/17/23 13:49	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 13:49	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/17/23 13:49	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/17/23 13:49	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 13:49	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 13:49	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/17/23 13:49	1

Client Sample ID: LC34-DPT0981-025.0-20231011
Lab Sample ID: 670-28575-4

Date Collected: 10/11/23 15:10
Matrix: Water
Date Received: 10/13/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	3.2	U	10	3.2	ug/L			10/17/23 13:49	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			10/17/23 13:49	1
Acetone	3.7	U	10	3.7	ug/L			10/17/23 13:49	1
Benzene	0.27	U	1.0	0.27	ug/L			10/17/23 13:49	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/17/23 13:49	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/17/23 13:49	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/17/23 13:49	1
Carbon disulfide	**0.88**	**I**	2.0	0.43	ug/L			10/17/23 13:49	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/17/23 13:49	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/17/23 13:49	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/17/23 13:49	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/17/23 13:49	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/17/23 13:49	1
cis-1,2-Dichloroethene	**13**		1.0	0.25	ug/L			10/17/23 13:49	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/17/23 13:49	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/17/23 13:49	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/17/23 13:49	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/17/23 13:49	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/17/23 13:49	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/17/23 13:49	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/17/23 13:49	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/17/23 13:49	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/17/23 13:49	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/17/23 13:49	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/17/23 13:49	1
Styrene	0.27	U	1.0	0.27	ug/L			10/17/23 13:49	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/17/23 13:49	1
Toluene	0.25	U	1.0	0.25	ug/L			10/17/23 13:49	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/17/23 13:49	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/17/23 13:49	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/17/23 13:49	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/17/23 13:49	1
Vinyl chloride	**65**		1.0	0.40	ug/L			10/17/23 13:49	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/17/23 13:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*60 - 124*		*10/17/23 13:49*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*10/17/23 13:49*	*1*
Dibromofluoromethane (Surr)	*92*		*70 - 130*		*10/17/23 13:49*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*10/17/23 13:49*	*1*

Client Sample ID: LC34-DPT0981-034.0-20231011
Lab Sample ID: 670-28575-5

Date Collected: 10/11/23 15:30
Matrix: Water
Date Received: 10/13/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/17/23 14:08	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/17/23 14:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/17/23 14:08	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28575-1

Client Sample ID: LC34-DPT0981-034.0-20231011
Date Collected: 10/11/23 15:30
Date Received: 10/13/23 08:00

Lab Sample ID: 670-28575-5
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/17/23 14:08	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/17/23 14:08	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/17/23 14:08	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/17/23 14:08	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/17/23 14:08	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/17/23 14:08	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 14:08	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/17/23 14:08	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/17/23 14:08	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 14:08	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 14:08	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/17/23 14:08	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/17/23 14:08	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			10/17/23 14:08	1
Acetone	3.7	U	10	3.7	ug/L			10/17/23 14:08	1
Benzene	0.27	U	1.0	0.27	ug/L			10/17/23 14:08	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/17/23 14:08	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/17/23 14:08	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/17/23 14:08	1
Carbon disulfide	**1.1**	**I**	2.0	0.43	ug/L			10/17/23 14:08	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/17/23 14:08	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/17/23 14:08	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/17/23 14:08	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/17/23 14:08	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/17/23 14:08	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/17/23 14:08	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/17/23 14:08	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/17/23 14:08	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/17/23 14:08	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/17/23 14:08	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/17/23 14:08	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/17/23 14:08	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/17/23 14:08	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/17/23 14:08	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/17/23 14:08	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/17/23 14:08	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/17/23 14:08	1
Styrene	0.27	U	1.0	0.27	ug/L			10/17/23 14:08	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/17/23 14:08	1
Toluene	0.25	U	1.0	0.25	ug/L			10/17/23 14:08	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/17/23 14:08	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/17/23 14:08	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/17/23 14:08	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/17/23 14:08	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/17/23 14:08	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/17/23 14:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*60 - 124*		*10/17/23 14:08*	*1*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*10/17/23 14:08*	*1*

Client Sample ID: LC34-DPT0981-034.0-20231011
Lab Sample ID: 670-28575-5

Date Collected: 10/11/23 15:30
Matrix: Water
Date Received: 10/13/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*92*		*70 - 130*		*10/17/23 14:08*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*10/17/23 14:08*	*1*

Client Sample ID: LC34-DPT0981-038.0-20231011
Lab Sample ID: 670-28575-6

Date Collected: 10/11/23 15:50
Matrix: Water
Date Received: 10/13/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/17/23 14:27	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/17/23 14:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/17/23 14:27	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/17/23 14:27	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/17/23 14:27	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/17/23 14:27	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/17/23 14:27	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/17/23 14:27	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/17/23 14:27	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 14:27	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/17/23 14:27	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/17/23 14:27	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 14:27	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 14:27	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/17/23 14:27	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/17/23 14:27	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			10/17/23 14:27	1
Acetone	3.7	U	10	3.7	ug/L			10/17/23 14:27	1
Benzene	0.27	U	1.0	0.27	ug/L			10/17/23 14:27	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/17/23 14:27	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/17/23 14:27	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/17/23 14:27	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/17/23 14:27	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/17/23 14:27	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/17/23 14:27	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/17/23 14:27	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/17/23 14:27	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/17/23 14:27	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/17/23 14:27	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/17/23 14:27	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/17/23 14:27	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/17/23 14:27	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/17/23 14:27	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/17/23 14:27	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/17/23 14:27	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/17/23 14:27	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/17/23 14:27	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/17/23 14:27	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/17/23 14:27	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/17/23 14:27	1

Client Sample ID: LC34-DPT0981-038.0-20231011
Lab Sample ID: 670-28575-6

Date Collected: 10/11/23 15:50
Matrix: Water
Date Received: 10/13/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.27	U	1.0	0.27	ug/L			10/17/23 14:27	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/17/23 14:27	1
Toluene	0.25	U	1.0	0.25	ug/L			10/17/23 14:27	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/17/23 14:27	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/17/23 14:27	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/17/23 14:27	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/17/23 14:27	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/17/23 14:27	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/17/23 14:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*87*		*60 - 124*		*10/17/23 14:27*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*10/17/23 14:27*	*1*
Dibromofluoromethane (Surr)	*94*		*70 - 130*		*10/17/23 14:27*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*10/17/23 14:27*	*1*

Client Sample ID: LC34-DPT0982-008.0-20231012
Lab Sample ID: 670-28575-7

Date Collected: 10/12/23 08:05
Matrix: Water
Date Received: 10/13/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/17/23 14:46	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/17/23 14:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/17/23 14:46	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/17/23 14:46	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/17/23 14:46	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/17/23 14:46	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/17/23 14:46	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/17/23 14:46	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/17/23 14:46	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 14:46	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/17/23 14:46	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/17/23 14:46	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 14:46	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 14:46	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/17/23 14:46	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/17/23 14:46	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			10/17/23 14:46	1
Acetone	3.7	U	10	3.7	ug/L			10/17/23 14:46	1
Benzene	0.27	U	1.0	0.27	ug/L			10/17/23 14:46	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/17/23 14:46	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/17/23 14:46	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/17/23 14:46	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/17/23 14:46	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/17/23 14:46	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/17/23 14:46	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/17/23 14:46	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/17/23 14:46	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/17/23 14:46	1

Client Sample ID: LC34-DPT0982-008.0-20231012
Lab Sample ID: 670-28575-7

Date Collected: 10/12/23 08:05
Matrix: Water
Date Received: 10/13/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	11		1.0	0.25	ug/L			10/17/23 14:46	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/17/23 14:46	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/17/23 14:46	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/17/23 14:46	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/17/23 14:46	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/17/23 14:46	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/17/23 14:46	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/17/23 14:46	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/17/23 14:46	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/17/23 14:46	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/17/23 14:46	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/17/23 14:46	1
Styrene	0.27	U	1.0	0.27	ug/L			10/17/23 14:46	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/17/23 14:46	1
Toluene	0.25	U	1.0	0.25	ug/L			10/17/23 14:46	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/17/23 14:46	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/17/23 14:46	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/17/23 14:46	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/17/23 14:46	1
Vinyl chloride	15		1.0	0.40	ug/L			10/17/23 14:46	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/17/23 14:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*60 - 124*		*10/17/23 14:46*	*1*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*10/17/23 14:46*	*1*
Dibromofluoromethane (Surr)	*94*		*70 - 130*		*10/17/23 14:46*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*10/17/23 14:46*	*1*

Client Sample ID: LC34-DPT0982-013.0-20231012
Lab Sample ID: 670-28575-8

Date Collected: 10/12/23 08:20
Matrix: Water
Date Received: 10/13/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/17/23 15:05	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/17/23 15:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/17/23 15:05	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/17/23 15:05	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/17/23 15:05	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/17/23 15:05	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/17/23 15:05	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/17/23 15:05	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/17/23 15:05	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 15:05	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/17/23 15:05	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/17/23 15:05	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 15:05	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 15:05	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/17/23 15:05	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/17/23 15:05	1

Client Sample ID: LC34-DPT0982-013.0-20231012
Lab Sample ID: 670-28575-8

Date Collected: 10/12/23 08:20
Matrix: Water
Date Received: 10/13/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			10/17/23 15:05	1
Acetone	3.7	U	10	3.7	ug/L			10/17/23 15:05	1
Benzene	0.27	U	1.0	0.27	ug/L			10/17/23 15:05	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/17/23 15:05	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/17/23 15:05	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/17/23 15:05	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/17/23 15:05	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/17/23 15:05	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/17/23 15:05	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/17/23 15:05	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/17/23 15:05	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/17/23 15:05	1
cis-1,2-Dichloroethene	**9.2**		1.0	0.25	ug/L			10/17/23 15:05	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/17/23 15:05	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/17/23 15:05	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/17/23 15:05	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/17/23 15:05	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/17/23 15:05	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/17/23 15:05	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/17/23 15:05	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/17/23 15:05	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/17/23 15:05	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/17/23 15:05	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/17/23 15:05	1
Styrene	0.27	U	1.0	0.27	ug/L			10/17/23 15:05	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/17/23 15:05	1
Toluene	0.25	U	1.0	0.25	ug/L			10/17/23 15:05	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/17/23 15:05	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/17/23 15:05	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/17/23 15:05	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/17/23 15:05	1
Vinyl chloride	**18**		1.0	0.40	ug/L			10/17/23 15:05	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/17/23 15:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*60 - 124*		*10/17/23 15:05*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/17/23 15:05*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*10/17/23 15:05*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*10/17/23 15:05*	*1*

Client Sample ID: LC34-DPT0982-018.0-20231012
Lab Sample ID: 670-28575-9

Date Collected: 10/12/23 08:35
Matrix: Water
Date Received: 10/13/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	5.0	1.1	ug/L			10/17/23 17:57	5
1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	ug/L			10/17/23 17:57	5
1,1,2-Trichloro-1,2,2-trifluoroethane	1.2	U	5.0	1.2	ug/L			10/17/23 17:57	5
1,1,2-Trichloroethane	1.6	U	5.0	1.6	ug/L			10/17/23 17:57	5

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28575-1

Client Sample ID: LC34-DPT0982-018.0-20231012
Date Collected: 10/12/23 08:35
Date Received: 10/13/23 08:00

Lab Sample ID: 670-28575-9
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	1.7	U	5.0	1.7	ug/L			10/17/23 17:57	5
1,1-Dichloroethene	1.7	U	5.0	1.7	ug/L			10/17/23 17:57	5
1,2,4-Trichlorobenzene	2.7	U	25	2.7	ug/L			10/17/23 17:57	5
1,2-Dibromo-3-Chloropropane	9.0	U	25	9.0	ug/L			10/17/23 17:57	5
1,2-Dibromoethane (EDB)	1.7	U	5.0	1.7	ug/L			10/17/23 17:57	5
1,2-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/17/23 17:57	5
1,2-Dichloroethane	1.3	U	5.0	1.3	ug/L			10/17/23 17:57	5
1,2-Dichloropropane	1.1	U	5.0	1.1	ug/L			10/17/23 17:57	5
1,3-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/17/23 17:57	5
1,4-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/17/23 17:57	5
2-Butanone (MEK)	32	U	50	32	ug/L			10/17/23 17:57	5
2-Hexanone	16	U	50	16	ug/L			10/17/23 17:57	5
4-Methyl-2-pentanone	14	U J3	50	14	ug/L			10/17/23 17:57	5
Acetone	19	U	50	19	ug/L			10/17/23 17:57	5
Benzene	1.4	U	5.0	1.4	ug/L			10/17/23 17:57	5
Bromodichloromethane	1.3	U	5.0	1.3	ug/L			10/17/23 17:57	5
Bromoform	3.0	U	5.0	3.0	ug/L			10/17/23 17:57	5
Bromomethane	19	U	25	19	ug/L			10/17/23 17:57	5
Carbon disulfide	2.2	U	10	2.2	ug/L			10/17/23 17:57	5
Carbon tetrachloride	1.5	U	5.0	1.5	ug/L			10/17/23 17:57	5
Chlorobenzene	0.75	U	5.0	0.75	ug/L			10/17/23 17:57	5
Chloroethane	23	U	25	23	ug/L			10/17/23 17:57	5
Chloroform	1.4	U	5.0	1.4	ug/L			10/17/23 17:57	5
Chloromethane	2.7	U	5.0	2.7	ug/L			10/17/23 17:57	5
cis-1,2-Dichloroethene	**430**		5.0	1.3	ug/L			10/17/23 17:57	5
cis-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			10/17/23 17:57	5
Cyclohexane	1.4	U	5.0	1.4	ug/L			10/17/23 17:57	5
Dibromochloromethane	2.0	U	5.0	2.0	ug/L			10/17/23 17:57	5
Dichlorodifluoromethane	1.8	U	5.0	1.8	ug/L			10/17/23 17:57	5
Ethylbenzene	1.0	U	5.0	1.0	ug/L			10/17/23 17:57	5
Isopropylbenzene	1.3	U	5.0	1.3	ug/L			10/17/23 17:57	5
m,p-Xylenes	2.5	U	5.0	2.5	ug/L			10/17/23 17:57	5
Methyl acetate	16	U	25	16	ug/L			10/17/23 17:57	5
Methyl tert-butyl ether	4.1	U	25	4.1	ug/L			10/17/23 17:57	5
Methylene Chloride	16	U	25	16	ug/L			10/17/23 17:57	5
o-Xylene	1.3	U	5.0	1.3	ug/L			10/17/23 17:57	5
Styrene	1.4	U	5.0	1.4	ug/L			10/17/23 17:57	5
Tetrachloroethene	1.8	U	5.0	1.8	ug/L			10/17/23 17:57	5
Toluene	1.3	U	5.0	1.3	ug/L			10/17/23 17:57	5
trans-1,2-Dichloroethene	**5.5**		5.0	1.7	ug/L			10/17/23 17:57	5
trans-1,3-Dichloropropene	1.2	U	5.0	1.2	ug/L			10/17/23 17:57	5
Trichloroethene	1.0	U	5.0	1.0	ug/L			10/17/23 17:57	5
Trichlorofluoromethane	1.7	U	5.0	1.7	ug/L			10/17/23 17:57	5
Vinyl chloride	**980**		5.0	2.0	ug/L			10/17/23 17:57	5
Xylenes, Total	1.2	U	5.0	1.2	ug/L			10/17/23 17:57	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*60 - 124*		*10/17/23 17:57*	*5*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*10/17/23 17:57*	*5*
Dibromofluoromethane (Surr)	*91*		*70 - 130*		*10/17/23 17:57*	*5*

Client Sample ID: LC34-DPT0982-018.0-20231012
Lab Sample ID: 670-28575-9

Date Collected: 10/12/23 08:35
Matrix: Water
Date Received: 10/13/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		70 - 130		10/17/23 17:57	5

Client Sample ID: LC34-DPT0982-025.0-20231012
Lab Sample ID: 670-28575-10

Date Collected: 10/12/23 08:50
Matrix: Water
Date Received: 10/13/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/17/23 15:24	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/17/23 15:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/17/23 15:24	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/17/23 15:24	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/17/23 15:24	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/17/23 15:24	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/17/23 15:24	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/17/23 15:24	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/17/23 15:24	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 15:24	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/17/23 15:24	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/17/23 15:24	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 15:24	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 15:24	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/17/23 15:24	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/17/23 15:24	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			10/17/23 15:24	1
Acetone	3.7	U	10	3.7	ug/L			10/17/23 15:24	1
Benzene	0.27	U	1.0	0.27	ug/L			10/17/23 15:24	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/17/23 15:24	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/17/23 15:24	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/17/23 15:24	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/17/23 15:24	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/17/23 15:24	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/17/23 15:24	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/17/23 15:24	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/17/23 15:24	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/17/23 15:24	1
cis-1,2-Dichloroethene	**4.3**		1.0	0.25	ug/L			10/17/23 15:24	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/17/23 15:24	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/17/23 15:24	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/17/23 15:24	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/17/23 15:24	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/17/23 15:24	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/17/23 15:24	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/17/23 15:24	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/17/23 15:24	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/17/23 15:24	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/17/23 15:24	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/17/23 15:24	1
Styrene	0.27	U	1.0	0.27	ug/L			10/17/23 15:24	1

Client Sample ID: LC34-DPT0982-025.0-20231012
Lab Sample ID: 670-28575-10

Date Collected: 10/12/23 08:50
Matrix: Water
Date Received: 10/13/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/17/23 15:24	1
Toluene	0.25	U	1.0	0.25	ug/L			10/17/23 15:24	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/17/23 15:24	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/17/23 15:24	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/17/23 15:24	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/17/23 15:24	1
Vinyl chloride	**19**		1.0	0.40	ug/L			10/17/23 15:24	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/17/23 15:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*60 - 124*		*10/17/23 15:24*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*10/17/23 15:24*	*1*
Dibromofluoromethane (Surr)	*94*		*70 - 130*		*10/17/23 15:24*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*10/17/23 15:24*	*1*

Client Sample ID: LC34-DPT0982-034.0-20231012
Lab Sample ID: 670-28575-11

Date Collected: 10/12/23 09:05
Matrix: Water
Date Received: 10/13/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/17/23 15:43	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/17/23 15:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/17/23 15:43	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/17/23 15:43	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/17/23 15:43	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/17/23 15:43	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/17/23 15:43	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/17/23 15:43	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/17/23 15:43	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 15:43	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/17/23 15:43	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/17/23 15:43	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 15:43	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 15:43	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/17/23 15:43	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/17/23 15:43	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			10/17/23 15:43	1
Acetone	3.7	U	10	3.7	ug/L			10/17/23 15:43	1
Benzene	0.27	U	1.0	0.27	ug/L			10/17/23 15:43	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/17/23 15:43	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/17/23 15:43	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/17/23 15:43	1
Carbon disulfide	**0.64**	**I**	2.0	0.43	ug/L			10/17/23 15:43	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/17/23 15:43	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/17/23 15:43	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/17/23 15:43	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/17/23 15:43	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/17/23 15:43	1
cis-1,2-Dichloroethene	**6.1**		1.0	0.25	ug/L			10/17/23 15:43	1

Client Sample ID: LC34-DPT0982-034.0-20231012
Lab Sample ID: 670-28575-11

Date Collected: 10/12/23 09:05
Matrix: Water
Date Received: 10/13/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/17/23 15:43	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/17/23 15:43	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/17/23 15:43	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/17/23 15:43	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/17/23 15:43	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/17/23 15:43	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/17/23 15:43	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/17/23 15:43	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/17/23 15:43	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/17/23 15:43	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/17/23 15:43	1
Styrene	0.27	U	1.0	0.27	ug/L			10/17/23 15:43	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/17/23 15:43	1
Toluene	0.25	U	1.0	0.25	ug/L			10/17/23 15:43	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/17/23 15:43	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/17/23 15:43	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/17/23 15:43	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/17/23 15:43	1
Vinyl chloride	**9.5**		1.0	0.40	ug/L			10/17/23 15:43	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/17/23 15:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*60 - 124*		*10/17/23 15:43*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*10/17/23 15:43*	*1*
Dibromofluoromethane (Surr)	*92*		*70 - 130*		*10/17/23 15:43*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*10/17/23 15:43*	*1*

Client Sample ID: LC34-DPT0982-038.0-20231012
Lab Sample ID: 670-28575-12

Date Collected: 10/12/23 09:25
Matrix: Water
Date Received: 10/13/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/17/23 16:02	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/17/23 16:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/17/23 16:02	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/17/23 16:02	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/17/23 16:02	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/17/23 16:02	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/17/23 16:02	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/17/23 16:02	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/17/23 16:02	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 16:02	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/17/23 16:02	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/17/23 16:02	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 16:02	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 16:02	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/17/23 16:02	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/17/23 16:02	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			10/17/23 16:02	1

Client Sample ID: LC34-DPT0982-038.0-20231012
Lab Sample ID: 670-28575-12

Date Collected: 10/12/23 09:25
Matrix: Water
Date Received: 10/13/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	3.7	U	10	3.7	ug/L			10/17/23 16:02	1
Benzene	0.27	U	1.0	0.27	ug/L			10/17/23 16:02	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/17/23 16:02	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/17/23 16:02	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/17/23 16:02	1
Carbon disulfide	**0.77**	**I**	2.0	0.43	ug/L			10/17/23 16:02	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/17/23 16:02	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/17/23 16:02	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/17/23 16:02	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/17/23 16:02	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/17/23 16:02	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/17/23 16:02	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/17/23 16:02	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/17/23 16:02	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/17/23 16:02	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/17/23 16:02	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/17/23 16:02	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/17/23 16:02	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/17/23 16:02	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/17/23 16:02	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/17/23 16:02	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/17/23 16:02	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/17/23 16:02	1
Styrene	0.27	U	1.0	0.27	ug/L			10/17/23 16:02	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/17/23 16:02	1
Toluene	0.25	U	1.0	0.25	ug/L			10/17/23 16:02	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/17/23 16:02	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/17/23 16:02	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/17/23 16:02	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/17/23 16:02	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/17/23 16:02	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/17/23 16:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*87*		*60 - 124*		*10/17/23 16:02*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*10/17/23 16:02*	*1*
Dibromofluoromethane (Surr)	*92*		*70 - 130*		*10/17/23 16:02*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*10/17/23 16:02*	*1*

Client Sample ID: LC34-DPT0983-008.0-20231012
Lab Sample ID: 670-28575-13

Date Collected: 10/12/23 10:05
Matrix: Water
Date Received: 10/13/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/17/23 16:21	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/17/23 16:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/17/23 16:21	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/17/23 16:21	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/17/23 16:21	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28575-1

Client Sample ID: LC34-DPT0983-008.0-20231012
Date Collected: 10/12/23 10:05
Date Received: 10/13/23 08:00

Lab Sample ID: 670-28575-13
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/17/23 16:21	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/17/23 16:21	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/17/23 16:21	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/17/23 16:21	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 16:21	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/17/23 16:21	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/17/23 16:21	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 16:21	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 16:21	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/17/23 16:21	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/17/23 16:21	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			10/17/23 16:21	1
Acetone	3.7	U	10	3.7	ug/L			10/17/23 16:21	1
Benzene	0.27	U	1.0	0.27	ug/L			10/17/23 16:21	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/17/23 16:21	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/17/23 16:21	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/17/23 16:21	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/17/23 16:21	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/17/23 16:21	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/17/23 16:21	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/17/23 16:21	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/17/23 16:21	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/17/23 16:21	1
cis-1,2-Dichloroethene	**59**		1.0	0.25	ug/L			10/17/23 16:21	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/17/23 16:21	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/17/23 16:21	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/17/23 16:21	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/17/23 16:21	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/17/23 16:21	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/17/23 16:21	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/17/23 16:21	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/17/23 16:21	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/17/23 16:21	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/17/23 16:21	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/17/23 16:21	1
Styrene	0.27	U	1.0	0.27	ug/L			10/17/23 16:21	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/17/23 16:21	1
Toluene	0.25	U	1.0	0.25	ug/L			10/17/23 16:21	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/17/23 16:21	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/17/23 16:21	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/17/23 16:21	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/17/23 16:21	1
Vinyl chloride	**58**		1.0	0.40	ug/L			10/17/23 16:21	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/17/23 16:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*85*		*60 - 124*		*10/17/23 16:21*	*1*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*		*10/17/23 16:21*	*1*
Dibromofluoromethane (Surr)	*92*		*70 - 130*		*10/17/23 16:21*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*10/17/23 16:21*	*1*

Client: Tetra Tech, Inc.
Job ID: 670-28575-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT0983-013.0-20231012
Lab Sample ID: 670-28575-14
Date Collected: 10/12/23 10:15
Matrix: Water
Date Received: 10/13/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/17/23 16:39	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/17/23 16:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/17/23 16:39	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/17/23 16:39	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/17/23 16:39	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/17/23 16:39	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/17/23 16:39	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/17/23 16:39	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/17/23 16:39	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 16:39	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/17/23 16:39	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/17/23 16:39	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 16:39	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 16:39	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/17/23 16:39	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/17/23 16:39	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			10/17/23 16:39	1
Acetone	3.7	U	10	3.7	ug/L			10/17/23 16:39	1
Benzene	0.27	U	1.0	0.27	ug/L			10/17/23 16:39	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/17/23 16:39	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/17/23 16:39	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/17/23 16:39	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/17/23 16:39	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/17/23 16:39	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/17/23 16:39	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/17/23 16:39	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/17/23 16:39	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/17/23 16:39	1
cis-1,2-Dichloroethene	**47**		1.0	0.25	ug/L			10/17/23 16:39	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/17/23 16:39	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/17/23 16:39	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/17/23 16:39	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/17/23 16:39	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/17/23 16:39	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/17/23 16:39	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/17/23 16:39	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/17/23 16:39	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/17/23 16:39	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/17/23 16:39	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/17/23 16:39	1
Styrene	0.27	U	1.0	0.27	ug/L			10/17/23 16:39	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/17/23 16:39	1
Toluene	0.25	U	1.0	0.25	ug/L			10/17/23 16:39	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/17/23 16:39	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/17/23 16:39	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/17/23 16:39	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/17/23 16:39	1
Vinyl chloride	**78**		1.0	0.40	ug/L			10/17/23 16:39	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/17/23 16:39	1

Client Sample ID: LC34-DPT0983-013.0-20231012
Lab Sample ID: 670-28575-14

Date Collected: 10/12/23 10:15
Matrix: Water
Date Received: 10/13/23 08:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		60 - 124		10/17/23 16:39	1
4-Bromofluorobenzene (Surr)	100		70 - 130		10/17/23 16:39	1
Dibromofluoromethane (Surr)	93		70 - 130		10/17/23 16:39	1
Toluene-d8 (Surr)	97		70 - 130		10/17/23 16:39	1

Client Sample ID: LC34-DPT0983-018.0-20231012
Lab Sample ID: 670-28575-15

Date Collected: 10/12/23 10:30
Matrix: Water
Date Received: 10/13/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.42	U	2.0	0.42	ug/L			10/17/23 18:40	2
1,1,2,2-Tetrachloroethane	0.80	U	2.0	0.80	ug/L			10/17/23 18:40	2
1,1,2-Trichloro-1,2,2-trifluoroethane	0.46	U	2.0	0.46	ug/L			10/17/23 18:40	2
1,1,2-Trichloroethane	0.64	U	2.0	0.64	ug/L			10/17/23 18:40	2
1,1-Dichloroethane	0.66	U	2.0	0.66	ug/L			10/17/23 18:40	2
1,1-Dichloroethene	0.66	U	2.0	0.66	ug/L			10/17/23 18:40	2
1,2,4-Trichlorobenzene	1.1	U	10	1.1	ug/L			10/17/23 18:40	2
1,2-Dibromo-3-Chloropropane	3.6	U	10	3.6	ug/L			10/17/23 18:40	2
1,2-Dibromoethane (EDB)	0.66	U	2.0	0.66	ug/L			10/17/23 18:40	2
1,2-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/17/23 18:40	2
1,2-Dichloroethane	0.50	U	2.0	0.50	ug/L			10/17/23 18:40	2
1,2-Dichloropropane	0.44	U	2.0	0.44	ug/L			10/17/23 18:40	2
1,3-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/17/23 18:40	2
1,4-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/17/23 18:40	2
2-Butanone (MEK)	13	U	20	13	ug/L			10/17/23 18:40	2
2-Hexanone	6.4	U	20	6.4	ug/L			10/17/23 18:40	2
4-Methyl-2-pentanone	5.4	U J3	20	5.4	ug/L			10/17/23 18:40	2
Acetone	7.4	U	20	7.4	ug/L			10/17/23 18:40	2
Benzene	0.54	U	2.0	0.54	ug/L			10/17/23 18:40	2
Bromodichloromethane	0.50	U	2.0	0.50	ug/L			10/17/23 18:40	2
Bromoform	1.2	U	2.0	1.2	ug/L			10/17/23 18:40	2
Bromomethane	7.4	U	10	7.4	ug/L			10/17/23 18:40	2
Carbon disulfide	0.86	U	4.0	0.86	ug/L			10/17/23 18:40	2
Carbon tetrachloride	0.60	U	2.0	0.60	ug/L			10/17/23 18:40	2
Chlorobenzene	0.30	U	2.0	0.30	ug/L			10/17/23 18:40	2
Chloroethane	9.2	U	10	9.2	ug/L			10/17/23 18:40	2
Chloroform	0.54	U	2.0	0.54	ug/L			10/17/23 18:40	2
Chloromethane	1.1	U	2.0	1.1	ug/L			10/17/23 18:40	2
cis-1,2-Dichloroethene	**64**		2.0	0.50	ug/L			10/17/23 18:40	2
cis-1,3-Dichloropropene	0.52	U	2.0	0.52	ug/L			10/17/23 18:40	2
Cyclohexane	0.56	U	2.0	0.56	ug/L			10/17/23 18:40	2
Dibromochloromethane	0.78	U	2.0	0.78	ug/L			10/17/23 18:40	2
Dichlorodifluoromethane	0.72	U	2.0	0.72	ug/L			10/17/23 18:40	2
Ethylbenzene	0.40	U	2.0	0.40	ug/L			10/17/23 18:40	2
Isopropylbenzene	0.52	U	2.0	0.52	ug/L			10/17/23 18:40	2
m,p-Xylenes	0.98	U	2.0	0.98	ug/L			10/17/23 18:40	2
Methyl acetate	6.4	U	10	6.4	ug/L			10/17/23 18:40	2
Methyl tert-butyl ether	1.6	U	10	1.6	ug/L			10/17/23 18:40	2
Methylene Chloride	6.4	U	10	6.4	ug/L			10/17/23 18:40	2

Client Sample ID: LC34-DPT0983-018.0-20231012
Lab Sample ID: 670-28575-15

Date Collected: 10/12/23 10:30
Matrix: Water
Date Received: 10/13/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	0.52	U	2.0	0.52	ug/L			10/17/23 18:40	2
Styrene	0.54	U	2.0	0.54	ug/L			10/17/23 18:40	2
Tetrachloroethene	0.70	U	2.0	0.70	ug/L			10/17/23 18:40	2
Toluene	0.50	U	2.0	0.50	ug/L			10/17/23 18:40	2
trans-1,2-Dichloroethene	0.68	U	2.0	0.68	ug/L			10/17/23 18:40	2
trans-1,3-Dichloropropene	0.46	U	2.0	0.46	ug/L			10/17/23 18:40	2
Trichloroethene	0.40	U	2.0	0.40	ug/L			10/17/23 18:40	2
Trichlorofluoromethane	0.66	U	2.0	0.66	ug/L			10/17/23 18:40	2
Vinyl chloride	**350**		2.0	0.80	ug/L			10/17/23 18:40	2
Xylenes, Total	0.46	U	2.0	0.46	ug/L			10/17/23 18:40	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*87*		*60 - 124*		*10/17/23 18:40*	*2*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/17/23 18:40*	*2*
Dibromofluoromethane (Surr)	*94*		*70 - 130*		*10/17/23 18:40*	*2*
Toluene-d8 (Surr)	*98*		*70 - 130*		*10/17/23 18:40*	*2*

Client Sample ID: LC34-DPT0983-025.0-20231012
Lab Sample ID: 670-28575-16

Date Collected: 10/12/23 10:45
Matrix: Water
Date Received: 10/13/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	4.2	U	20	4.2	ug/L			10/17/23 17:36	20
1,1,2,2-Tetrachloroethane	8.0	U	20	8.0	ug/L			10/17/23 17:36	20
1,1,2-Trichloro-1,2,2-trifluoroethane	4.6	U	20	4.6	ug/L			10/17/23 17:36	20
1,1,2-Trichloroethane	6.4	U	20	6.4	ug/L			10/17/23 17:36	20
1,1-Dichloroethane	6.6	U	20	6.6	ug/L			10/17/23 17:36	20
1,1-Dichloroethene	6.6	U	20	6.6	ug/L			10/17/23 17:36	20
1,2,4-Trichlorobenzene	11	U	100	11	ug/L			10/17/23 17:36	20
1,2-Dibromo-3-Chloropropane	36	U	100	36	ug/L			10/17/23 17:36	20
1,2-Dibromoethane (EDB)	6.6	U	20	6.6	ug/L			10/17/23 17:36	20
1,2-Dichlorobenzene	6.2	U	20	6.2	ug/L			10/17/23 17:36	20
1,2-Dichloroethane	5.0	U	20	5.0	ug/L			10/17/23 17:36	20
1,2-Dichloropropane	4.4	U	20	4.4	ug/L			10/17/23 17:36	20
1,3-Dichlorobenzene	6.2	U	20	6.2	ug/L			10/17/23 17:36	20
1,4-Dichlorobenzene	6.2	U	20	6.2	ug/L			10/17/23 17:36	20
2-Butanone (MEK)	130	U	200	130	ug/L			10/17/23 17:36	20
2-Hexanone	64	U	200	64	ug/L			10/17/23 17:36	20
4-Methyl-2-pentanone	54	U J3	200	54	ug/L			10/17/23 17:36	20
Acetone	74	U	200	74	ug/L			10/17/23 17:36	20
Benzene	5.4	U	20	5.4	ug/L			10/17/23 17:36	20
Bromodichloromethane	5.0	U	20	5.0	ug/L			10/17/23 17:36	20
Bromoform	12	U	20	12	ug/L			10/17/23 17:36	20
Bromomethane	74	U	100	74	ug/L			10/17/23 17:36	20
Carbon disulfide	8.6	U	40	8.6	ug/L			10/17/23 17:36	20
Carbon tetrachloride	6.0	U	20	6.0	ug/L			10/17/23 17:36	20
Chlorobenzene	3.0	U	20	3.0	ug/L			10/17/23 17:36	20
Chloroethane	92	U	100	92	ug/L			10/17/23 17:36	20
Chloroform	5.4	U	20	5.4	ug/L			10/17/23 17:36	20

Client Sample ID: LC34-DPT0983-025.0-20231012
Lab Sample ID: 670-28575-16

Date Collected: 10/12/23 10:45
Matrix: Water
Date Received: 10/13/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	11	U	20	11	ug/L			10/17/23 17:36	20
cis-1,2-Dichloroethene	**6.6**	**I**	20	5.0	ug/L			10/17/23 17:36	20
cis-1,3-Dichloropropene	5.2	U	20	5.2	ug/L			10/17/23 17:36	20
Cyclohexane	5.6	U	20	5.6	ug/L			10/17/23 17:36	20
Dibromochloromethane	7.8	U	20	7.8	ug/L			10/17/23 17:36	20
Dichlorodifluoromethane	7.2	U	20	7.2	ug/L			10/17/23 17:36	20
Ethylbenzene	4.0	U	20	4.0	ug/L			10/17/23 17:36	20
Isopropylbenzene	5.2	U	20	5.2	ug/L			10/17/23 17:36	20
m,p-Xylenes	9.8	U	20	9.8	ug/L			10/17/23 17:36	20
Methyl acetate	64	U	100	64	ug/L			10/17/23 17:36	20
Methyl tert-butyl ether	16	U	100	16	ug/L			10/17/23 17:36	20
Methylene Chloride	64	U	100	64	ug/L			10/17/23 17:36	20
o-Xylene	5.2	U	20	5.2	ug/L			10/17/23 17:36	20
Styrene	5.4	U	20	5.4	ug/L			10/17/23 17:36	20
Tetrachloroethene	7.0	U	20	7.0	ug/L			10/17/23 17:36	20
Toluene	5.0	U	20	5.0	ug/L			10/17/23 17:36	20
trans-1,2-Dichloroethene	**150**		20	6.8	ug/L			10/17/23 17:36	20
trans-1,3-Dichloropropene	4.6	U	20	4.6	ug/L			10/17/23 17:36	20
Trichloroethene	4.0	U	20	4.0	ug/L			10/17/23 17:36	20
Trichlorofluoromethane	6.6	U	20	6.6	ug/L			10/17/23 17:36	20
Vinyl chloride	**2900**		20	8.0	ug/L			10/17/23 17:36	20
Xylenes, Total	4.6	U	20	4.6	ug/L			10/17/23 17:36	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*60 - 124*		*10/17/23 17:36*	*20*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*10/17/23 17:36*	*20*
Dibromofluoromethane (Surr)	*94*		*70 - 130*		*10/17/23 17:36*	*20*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/17/23 17:36*	*20*

Client Sample ID: LC34-DPT0983-034.0-20231012
Lab Sample ID: 670-28575-17

Date Collected: 10/12/23 11:00
Matrix: Water
Date Received: 10/13/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.42	U	2.0	0.42	ug/L			10/17/23 19:02	2
1,1,2,2-Tetrachloroethane	0.80	U	2.0	0.80	ug/L			10/17/23 19:02	2
1,1,2-Trichloro-1,2,2-trifluoroethane	0.46	U	2.0	0.46	ug/L			10/17/23 19:02	2
1,1,2-Trichloroethane	0.64	U	2.0	0.64	ug/L			10/17/23 19:02	2
1,1-Dichloroethane	0.66	U	2.0	0.66	ug/L			10/17/23 19:02	2
1,1-Dichloroethene	0.66	U	2.0	0.66	ug/L			10/17/23 19:02	2
1,2,4-Trichlorobenzene	1.1	U	10	1.1	ug/L			10/17/23 19:02	2
1,2-Dibromo-3-Chloropropane	3.6	U	10	3.6	ug/L			10/17/23 19:02	2
1,2-Dibromoethane (EDB)	0.66	U	2.0	0.66	ug/L			10/17/23 19:02	2
1,2-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/17/23 19:02	2
1,2-Dichloroethane	0.50	U	2.0	0.50	ug/L			10/17/23 19:02	2
1,2-Dichloropropane	0.44	U	2.0	0.44	ug/L			10/17/23 19:02	2
1,3-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/17/23 19:02	2
1,4-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/17/23 19:02	2
2-Butanone (MEK)	13	U	20	13	ug/L			10/17/23 19:02	2

Client Sample ID: LC34-DPT0983-034.0-20231012
Lab Sample ID: 670-28575-17

Date Collected: 10/12/23 11:00
Matrix: Water
Date Received: 10/13/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	6.4	U	20	6.4	ug/L			10/17/23 19:02	2
4-Methyl-2-pentanone	5.4	U J3	20	5.4	ug/L			10/17/23 19:02	2
Acetone	7.4	U	20	7.4	ug/L			10/17/23 19:02	2
Benzene	0.54	U	2.0	0.54	ug/L			10/17/23 19:02	2
Bromodichloromethane	0.50	U	2.0	0.50	ug/L			10/17/23 19:02	2
Bromoform	1.2	U	2.0	1.2	ug/L			10/17/23 19:02	2
Bromomethane	7.4	U	10	7.4	ug/L			10/17/23 19:02	2
Carbon disulfide	**2.2**	**I**	4.0	0.86	ug/L			10/17/23 19:02	2
Carbon tetrachloride	0.60	U	2.0	0.60	ug/L			10/17/23 19:02	2
Chlorobenzene	0.30	U	2.0	0.30	ug/L			10/17/23 19:02	2
Chloroethane	9.2	U	10	9.2	ug/L			10/17/23 19:02	2
Chloroform	0.54	U	2.0	0.54	ug/L			10/17/23 19:02	2
Chloromethane	1.1	U	2.0	1.1	ug/L			10/17/23 19:02	2
cis-1,2-Dichloroethene	**5.3**		2.0	0.50	ug/L			10/17/23 19:02	2
cis-1,3-Dichloropropene	0.52	U	2.0	0.52	ug/L			10/17/23 19:02	2
Cyclohexane	0.56	U	2.0	0.56	ug/L			10/17/23 19:02	2
Dibromochloromethane	0.78	U	2.0	0.78	ug/L			10/17/23 19:02	2
Dichlorodifluoromethane	0.72	U	2.0	0.72	ug/L			10/17/23 19:02	2
Ethylbenzene	0.40	U	2.0	0.40	ug/L			10/17/23 19:02	2
Isopropylbenzene	0.52	U	2.0	0.52	ug/L			10/17/23 19:02	2
m,p-Xylenes	0.98	U	2.0	0.98	ug/L			10/17/23 19:02	2
Methyl acetate	6.4	U	10	6.4	ug/L			10/17/23 19:02	2
Methyl tert-butyl ether	1.6	U	10	1.6	ug/L			10/17/23 19:02	2
Methylene Chloride	6.4	U	10	6.4	ug/L			10/17/23 19:02	2
o-Xylene	0.52	U	2.0	0.52	ug/L			10/17/23 19:02	2
Styrene	0.54	U	2.0	0.54	ug/L			10/17/23 19:02	2
Tetrachloroethene	0.70	U	2.0	0.70	ug/L			10/17/23 19:02	2
Toluene	0.50	U	2.0	0.50	ug/L			10/17/23 19:02	2
trans-1,2-Dichloroethene	0.68	U	2.0	0.68	ug/L			10/17/23 19:02	2
trans-1,3-Dichloropropene	0.46	U	2.0	0.46	ug/L			10/17/23 19:02	2
Trichloroethene	0.40	U	2.0	0.40	ug/L			10/17/23 19:02	2
Trichlorofluoromethane	0.66	U	2.0	0.66	ug/L			10/17/23 19:02	2
Vinyl chloride	**340**		2.0	0.80	ug/L			10/17/23 19:02	2
Xylenes, Total	0.46	U	2.0	0.46	ug/L			10/17/23 19:02	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*60 - 124*		*10/17/23 19:02*	*2*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*10/17/23 19:02*	*2*
Dibromofluoromethane (Surr)	*92*		*70 - 130*		*10/17/23 19:02*	*2*
Toluene-d8 (Surr)	*96*		*70 - 130*		*10/17/23 19:02*	*2*

Client Sample ID: LC34-DPT0983-038.0-20231012
Lab Sample ID: 670-28575-18

Date Collected: 10/12/23 11:20
Matrix: Water
Date Received: 10/13/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/17/23 16:58	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/17/23 16:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/17/23 16:58	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28575-1

Client Sample ID: LC34-DPT0983-038.0-20231012
Date Collected: 10/12/23 11:20
Date Received: 10/13/23 08:00

Lab Sample ID: 670-28575-18
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/17/23 16:58	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/17/23 16:58	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/17/23 16:58	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/17/23 16:58	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/17/23 16:58	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/17/23 16:58	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 16:58	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/17/23 16:58	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/17/23 16:58	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 16:58	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 16:58	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/17/23 16:58	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/17/23 16:58	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			10/17/23 16:58	1
Acetone	3.7	U	10	3.7	ug/L			10/17/23 16:58	1
Benzene	0.27	U	1.0	0.27	ug/L			10/17/23 16:58	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/17/23 16:58	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/17/23 16:58	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/17/23 16:58	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/17/23 16:58	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/17/23 16:58	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/17/23 16:58	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/17/23 16:58	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/17/23 16:58	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/17/23 16:58	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/17/23 16:58	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/17/23 16:58	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/17/23 16:58	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/17/23 16:58	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/17/23 16:58	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/17/23 16:58	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/17/23 16:58	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/17/23 16:58	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/17/23 16:58	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/17/23 16:58	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/17/23 16:58	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/17/23 16:58	1
Styrene	0.27	U	1.0	0.27	ug/L			10/17/23 16:58	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/17/23 16:58	1
Toluene	0.25	U	1.0	0.25	ug/L			10/17/23 16:58	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/17/23 16:58	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/17/23 16:58	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/17/23 16:58	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/17/23 16:58	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/17/23 16:58	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/17/23 16:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*87*		*60 - 124*		*10/17/23 16:58*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/17/23 16:58*	*1*

Client Sample ID: LC34-DPT0983-038.0-20231012
Lab Sample ID: 670-28575-18

Date Collected: 10/12/23 11:20
Matrix: Water
Date Received: 10/13/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*94*		*70 - 130*		*10/17/23 16:58*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*10/17/23 16:58*	*1*

Client Sample ID: LC34-DPT0984-008.0-20231012
Lab Sample ID: 670-28575-19

Date Collected: 10/12/23 11:55
Matrix: Water
Date Received: 10/13/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/17/23 17:17	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/17/23 17:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/17/23 17:17	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/17/23 17:17	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/17/23 17:17	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/17/23 17:17	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/17/23 17:17	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/17/23 17:17	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/17/23 17:17	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 17:17	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/17/23 17:17	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/17/23 17:17	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 17:17	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 17:17	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/17/23 17:17	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/17/23 17:17	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			10/17/23 17:17	1
Acetone	3.7	U	10	3.7	ug/L			10/17/23 17:17	1
Benzene	0.27	U	1.0	0.27	ug/L			10/17/23 17:17	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/17/23 17:17	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/17/23 17:17	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/17/23 17:17	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/17/23 17:17	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/17/23 17:17	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/17/23 17:17	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/17/23 17:17	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/17/23 17:17	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/17/23 17:17	1
cis-1,2-Dichloroethene	**15**		1.0	0.25	ug/L			10/17/23 17:17	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/17/23 17:17	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/17/23 17:17	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/17/23 17:17	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/17/23 17:17	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/17/23 17:17	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/17/23 17:17	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/17/23 17:17	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/17/23 17:17	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/17/23 17:17	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/17/23 17:17	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/17/23 17:17	1

Client Sample ID: LC34-DPT0984-008.0-20231012
Lab Sample ID: 670-28575-19

Date Collected: 10/12/23 11:55
Matrix: Water
Date Received: 10/13/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.27	U	1.0	0.27	ug/L			10/17/23 17:17	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/17/23 17:17	1
Toluene	0.25	U	1.0	0.25	ug/L			10/17/23 17:17	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/17/23 17:17	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/17/23 17:17	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/17/23 17:17	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/17/23 17:17	1
Vinyl chloride	23		1.0	0.40	ug/L			10/17/23 17:17	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/17/23 17:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*60 - 124*		*10/17/23 17:17*	*1*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*10/17/23 17:17*	*1*
Dibromofluoromethane (Surr)	*95*		*70 - 130*		*10/17/23 17:17*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*10/17/23 17:17*	*1*

Client Sample ID: LC34-DPT0984-013.0-20231012
Lab Sample ID: 670-28575-20

Date Collected: 10/12/23 12:10
Matrix: Water
Date Received: 10/13/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	5.0	1.1	ug/L			10/17/23 18:19	5
1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	ug/L			10/17/23 18:19	5
1,1,2-Trichloro-1,2,2-trifluoroethane	1.2	U	5.0	1.2	ug/L			10/17/23 18:19	5
1,1,2-Trichloroethane	1.6	U	5.0	1.6	ug/L			10/17/23 18:19	5
1,1-Dichloroethane	1.7	U	5.0	1.7	ug/L			10/17/23 18:19	5
1,1-Dichloroethene	1.7	U	5.0	1.7	ug/L			10/17/23 18:19	5
1,2,4-Trichlorobenzene	2.7	U	25	2.7	ug/L			10/17/23 18:19	5
1,2-Dibromo-3-Chloropropane	9.0	U	25	9.0	ug/L			10/17/23 18:19	5
1,2-Dibromoethane (EDB)	1.7	U	5.0	1.7	ug/L			10/17/23 18:19	5
1,2-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/17/23 18:19	5
1,2-Dichloroethane	1.3	U	5.0	1.3	ug/L			10/17/23 18:19	5
1,2-Dichloropropane	1.1	U	5.0	1.1	ug/L			10/17/23 18:19	5
1,3-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/17/23 18:19	5
1,4-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/17/23 18:19	5
2-Butanone (MEK)	32	U	50	32	ug/L			10/17/23 18:19	5
2-Hexanone	16	U	50	16	ug/L			10/17/23 18:19	5
4-Methyl-2-pentanone	14	U J3	50	14	ug/L			10/17/23 18:19	5
Acetone	19	U	50	19	ug/L			10/17/23 18:19	5
Benzene	1.4	U	5.0	1.4	ug/L			10/17/23 18:19	5
Bromodichloromethane	1.3	U	5.0	1.3	ug/L			10/17/23 18:19	5
Bromoform	3.0	U	5.0	3.0	ug/L			10/17/23 18:19	5
Bromomethane	19	U	25	19	ug/L			10/17/23 18:19	5
Carbon disulfide	2.2	U	10	2.2	ug/L			10/17/23 18:19	5
Carbon tetrachloride	1.5	U	5.0	1.5	ug/L			10/17/23 18:19	5
Chlorobenzene	0.75	U	5.0	0.75	ug/L			10/17/23 18:19	5
Chloroethane	23	U	25	23	ug/L			10/17/23 18:19	5
Chloroform	1.4	U	5.0	1.4	ug/L			10/17/23 18:19	5
Chloromethane	2.7	U	5.0	2.7	ug/L			10/17/23 18:19	5

Client Sample ID: LC34-DPT0984-013.0-20231012
Lab Sample ID: 670-28575-20

Date Collected: 10/12/23 12:10
Matrix: Water
Date Received: 10/13/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**580**		5.0	1.3	ug/L			10/17/23 18:19	5
cis-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			10/17/23 18:19	5
Cyclohexane	1.4	U	5.0	1.4	ug/L			10/17/23 18:19	5
Dibromochloromethane	2.0	U	5.0	2.0	ug/L			10/17/23 18:19	5
Dichlorodifluoromethane	1.8	U	5.0	1.8	ug/L			10/17/23 18:19	5
Ethylbenzene	1.0	U	5.0	1.0	ug/L			10/17/23 18:19	5
Isopropylbenzene	1.3	U	5.0	1.3	ug/L			10/17/23 18:19	5
m,p-Xylenes	2.5	U	5.0	2.5	ug/L			10/17/23 18:19	5
Methyl acetate	16	U	25	16	ug/L			10/17/23 18:19	5
Methyl tert-butyl ether	4.1	U	25	4.1	ug/L			10/17/23 18:19	5
Methylene Chloride	16	U	25	16	ug/L			10/17/23 18:19	5
o-Xylene	1.3	U	5.0	1.3	ug/L			10/17/23 18:19	5
Styrene	1.4	U	5.0	1.4	ug/L			10/17/23 18:19	5
Tetrachloroethene	1.8	U	5.0	1.8	ug/L			10/17/23 18:19	5
Toluene	1.3	U	5.0	1.3	ug/L			10/17/23 18:19	5
trans-1,2-Dichloroethene	**7.4**		5.0	1.7	ug/L			10/17/23 18:19	5
trans-1,3-Dichloropropene	1.2	U	5.0	1.2	ug/L			10/17/23 18:19	5
Trichloroethene	1.0	U	5.0	1.0	ug/L			10/17/23 18:19	5
Trichlorofluoromethane	1.7	U	5.0	1.7	ug/L			10/17/23 18:19	5
Vinyl chloride	**670**		5.0	2.0	ug/L			10/17/23 18:19	5
Xylenes, Total	1.2	U	5.0	1.2	ug/L			10/17/23 18:19	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*60 - 124*		*10/17/23 18:19*	*5*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*10/17/23 18:19*	*5*
Dibromofluoromethane (Surr)	*94*		*70 - 130*		*10/17/23 18:19*	*5*
Toluene-d8 (Surr)	*98*		*70 - 130*		*10/17/23 18:19*	*5*

Client Sample ID: LC34-DPT0984-018.0-20231012
Lab Sample ID: 670-28575-21

Date Collected: 10/12/23 12:25
Matrix: Water
Date Received: 10/13/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.3	U	25	5.3	ug/L			10/17/23 18:04	25
1,1,2,2-Tetrachloroethane	10	U	25	10	ug/L			10/17/23 18:04	25
1,1,2-Trichloro-1,2,2-trifluoroethane	5.8	U	25	5.8	ug/L			10/17/23 18:04	25
1,1,2-Trichloroethane	8.0	U	25	8.0	ug/L			10/17/23 18:04	25
1,1-Dichloroethane	8.3	U	25	8.3	ug/L			10/17/23 18:04	25
1,1-Dichloroethene	8.3	U	25	8.3	ug/L			10/17/23 18:04	25
1,2,4-Trichlorobenzene	13	U J3	130	13	ug/L			10/17/23 18:04	25
1,2-Dibromo-3-Chloropropane	45	U	130	45	ug/L			10/17/23 18:04	25
1,2-Dibromoethane (EDB)	8.3	U	25	8.3	ug/L			10/17/23 18:04	25
1,2-Dichlorobenzene	7.8	U	25	7.8	ug/L			10/17/23 18:04	25
1,2-Dichloroethane	6.3	U	25	6.3	ug/L			10/17/23 18:04	25
1,2-Dichloropropane	5.5	U	25	5.5	ug/L			10/17/23 18:04	25
1,3-Dichlorobenzene	7.8	U	25	7.8	ug/L			10/17/23 18:04	25
1,4-Dichlorobenzene	7.8	U	25	7.8	ug/L			10/17/23 18:04	25
2-Butanone (MEK)	160	U	250	160	ug/L			10/17/23 18:04	25
2-Hexanone	80	U	250	80	ug/L			10/17/23 18:04	25

Client Sample ID: LC34-DPT0984-018.0-20231012
Lab Sample ID: 670-28575-21
Date Collected: 10/12/23 12:25
Matrix: Water
Date Received: 10/13/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone	68	U	250	68	ug/L			10/17/23 18:04	25
Acetone	93	U	250	93	ug/L			10/17/23 18:04	25
Benzene	6.8	U	25	6.8	ug/L			10/17/23 18:04	25
Bromodichloromethane	6.3	U	25	6.3	ug/L			10/17/23 18:04	25
Bromoform	15	U	25	15	ug/L			10/17/23 18:04	25
Bromomethane	93	U	130	93	ug/L			10/17/23 18:04	25
Carbon disulfide	11	U	50	11	ug/L			10/17/23 18:04	25
Carbon tetrachloride	7.5	U	25	7.5	ug/L			10/17/23 18:04	25
Chlorobenzene	3.8	U	25	3.8	ug/L			10/17/23 18:04	25
Chloroethane	120	U	130	120	ug/L			10/17/23 18:04	25
Chloroform	6.8	U	25	6.8	ug/L			10/17/23 18:04	25
Chloromethane	14	U	25	14	ug/L			10/17/23 18:04	25
cis-1,2-Dichloroethene	**1000**		25	6.3	ug/L			10/17/23 18:04	25
cis-1,3-Dichloropropene	6.5	U	25	6.5	ug/L			10/17/23 18:04	25
Cyclohexane	7.0	U	25	7.0	ug/L			10/17/23 18:04	25
Dibromochloromethane	9.8	U	25	9.8	ug/L			10/17/23 18:04	25
Dichlorodifluoromethane	9.0	U	25	9.0	ug/L			10/17/23 18:04	25
Ethylbenzene	5.0	U	25	5.0	ug/L			10/17/23 18:04	25
Isopropylbenzene	6.5	U	25	6.5	ug/L			10/17/23 18:04	25
m,p-Xylenes	12	U	25	12	ug/L			10/17/23 18:04	25
Methyl acetate	80	U	130	80	ug/L			10/17/23 18:04	25
Methyl tert-butyl ether	20	U	130	20	ug/L			10/17/23 18:04	25
Methylene Chloride	80	U	130	80	ug/L			10/17/23 18:04	25
o-Xylene	6.5	U	25	6.5	ug/L			10/17/23 18:04	25
Styrene	6.8	U	25	6.8	ug/L			10/17/23 18:04	25
Tetrachloroethene	8.8	U	25	8.8	ug/L			10/17/23 18:04	25
Toluene	6.3	U	25	6.3	ug/L			10/17/23 18:04	25
trans-1,2-Dichloroethene	**120**		25	8.5	ug/L			10/17/23 18:04	25
trans-1,3-Dichloropropene	5.8	U	25	5.8	ug/L			10/17/23 18:04	25
Trichloroethene	5.0	U	25	5.0	ug/L			10/17/23 18:04	25
Trichlorofluoromethane	8.3	U	25	8.3	ug/L			10/17/23 18:04	25
Xylenes, Total	5.8	U	25	5.8	ug/L			10/17/23 18:04	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*84*		*60 - 124*		*10/17/23 18:04*	*25*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*		*10/17/23 18:04*	*25*
Dibromofluoromethane (Surr)	*90*		*70 - 130*		*10/17/23 18:04*	*25*
Toluene-d8 (Surr)	*111*		*70 - 130*		*10/17/23 18:04*	*25*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	**3800**		50	20	ug/L			10/18/23 14:44	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*60 - 124*		*10/18/23 14:44*	*50*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*10/18/23 14:44*	*50*
Dibromofluoromethane (Surr)	*93*		*70 - 130*		*10/18/23 14:44*	*50*
Toluene-d8 (Surr)	*96*		*70 - 130*		*10/18/23 14:44*	*50*

Client: Tetra Tech, Inc.
Job ID: 670-28575-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT0984-025.0-20231012
Lab Sample ID: 670-28575-22
Date Collected: 10/12/23 12:45
Matrix: Water
Date Received: 10/13/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/17/23 13:13	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/17/23 13:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/17/23 13:13	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/17/23 13:13	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/17/23 13:13	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/17/23 13:13	1
1,2,4-Trichlorobenzene	0.53	U J3	5.0	0.53	ug/L			10/17/23 13:13	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/17/23 13:13	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/17/23 13:13	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 13:13	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/17/23 13:13	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/17/23 13:13	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 13:13	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 13:13	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/17/23 13:13	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/17/23 13:13	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/17/23 13:13	1
Acetone	3.7	U	10	3.7	ug/L			10/17/23 13:13	1
Benzene	0.27	U	1.0	0.27	ug/L			10/17/23 13:13	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/17/23 13:13	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/17/23 13:13	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/17/23 13:13	1
Carbon disulfide	**1.1**	**I**	2.0	0.43	ug/L			10/17/23 13:13	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/17/23 13:13	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/17/23 13:13	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/17/23 13:13	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/17/23 13:13	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/17/23 13:13	1
cis-1,2-Dichloroethene	**1.5**		1.0	0.25	ug/L			10/17/23 13:13	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/17/23 13:13	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/17/23 13:13	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/17/23 13:13	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/17/23 13:13	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/17/23 13:13	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/17/23 13:13	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/17/23 13:13	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/17/23 13:13	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/17/23 13:13	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/17/23 13:13	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/17/23 13:13	1
Styrene	0.27	U	1.0	0.27	ug/L			10/17/23 13:13	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/17/23 13:13	1
Toluene	0.25	U	1.0	0.25	ug/L			10/17/23 13:13	1
trans-1,2-Dichloroethene	**74**		1.0	0.34	ug/L			10/17/23 13:13	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/17/23 13:13	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/17/23 13:13	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/17/23 13:13	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/17/23 13:13	1

Client Sample ID: LC34-DPT0984-025.0-20231012
Lab Sample ID: 670-28575-22

Date Collected: 10/12/23 12:45
Matrix: Water
Date Received: 10/13/23 08:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		60 - 124		10/17/23 13:13	1
4-Bromofluorobenzene (Surr)	101		70 - 130		10/17/23 13:13	1
Dibromofluoromethane (Surr)	98		70 - 130		10/17/23 13:13	1
Toluene-d8 (Surr)	101		70 - 130		10/17/23 13:13	1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	6900		100	40	ug/L			10/17/23 18:45	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	86		60 - 124		10/17/23 18:45	100
4-Bromofluorobenzene (Surr)	87		70 - 130		10/17/23 18:45	100
Dibromofluoromethane (Surr)	90		70 - 130		10/17/23 18:45	100
Toluene-d8 (Surr)	115		70 - 130		10/17/23 18:45	100

Client Sample ID: LC34-DPT0984-034.0-20231012
Lab Sample ID: 670-28575-23

Date Collected: 10/12/23 13:05
Matrix: Water
Date Received: 10/13/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/17/23 13:33	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/17/23 13:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/17/23 13:33	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/17/23 13:33	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/17/23 13:33	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/17/23 13:33	1
1,2,4-Trichlorobenzene	0.53	U J3	5.0	0.53	ug/L			10/17/23 13:33	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/17/23 13:33	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/17/23 13:33	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 13:33	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/17/23 13:33	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/17/23 13:33	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 13:33	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 13:33	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/17/23 13:33	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/17/23 13:33	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/17/23 13:33	1
Acetone	3.7	U	10	3.7	ug/L			10/17/23 13:33	1
Benzene	0.27	U	1.0	0.27	ug/L			10/17/23 13:33	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/17/23 13:33	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/17/23 13:33	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/17/23 13:33	1
Carbon disulfide	1.4	I	2.0	0.43	ug/L			10/17/23 13:33	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/17/23 13:33	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/17/23 13:33	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/17/23 13:33	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/17/23 13:33	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/17/23 13:33	1
cis-1,2-Dichloroethene	2.8		1.0	0.25	ug/L			10/17/23 13:33	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/17/23 13:33	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28575-1

Client Sample ID: LC34-DPT0984-034.0-20231012
Date Collected: 10/12/23 13:05
Date Received: 10/13/23 08:00

Lab Sample ID: 670-28575-23
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/17/23 13:33	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/17/23 13:33	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/17/23 13:33	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/17/23 13:33	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/17/23 13:33	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/17/23 13:33	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/17/23 13:33	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/17/23 13:33	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/17/23 13:33	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/17/23 13:33	1
Styrene	0.27	U	1.0	0.27	ug/L			10/17/23 13:33	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/17/23 13:33	1
Toluene	0.25	U	1.0	0.25	ug/L			10/17/23 13:33	1
trans-1,2-Dichloroethene	**0.44**	**I**	1.0	0.34	ug/L			10/17/23 13:33	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/17/23 13:33	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/17/23 13:33	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/17/23 13:33	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/17/23 13:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*60 - 124*		*10/17/23 13:33*	*1*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*		*10/17/23 13:33*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*10/17/23 13:33*	*1*
Toluene-d8 (Surr)	*122*		*70 - 130*		*10/17/23 13:33*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	**200**		5.0	2.0	ug/L			10/18/23 15:05	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*60 - 124*		*10/18/23 15:05*	*5*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*10/18/23 15:05*	*5*
Dibromofluoromethane (Surr)	*91*		*70 - 130*		*10/18/23 15:05*	*5*
Toluene-d8 (Surr)	*98*		*70 - 130*		*10/18/23 15:05*	*5*

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28575-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(60-124)	(70-130)	(70-130)	(70-130)
670-28575-1	LC34-DPT0981-008.0-20231011	87	101	93	101
670-28575-2	LC34-DPT0981-013.0-2023101 1	88	102	92	100
670-28575-3	LC34-DPT0981-018.0-2023101 1	88	101	91	99
670-28575-4	LC34-DPT0981-025.0-2023101 1	89	102	92	98
670-28575-5	LC34-DPT0981-034.0-2023101 1	88	103	92	99
670-28575-6	LC34-DPT0981-038.0-2023101 1	87	102	94	98
670-28575-7	LC34-DPT0982-008.0-2023101 2	88	103	94	98
670-28575-8	LC34-DPT0982-013.0-2023101 2	88	101	96	98
670-28575-9	LC34-DPT0982-018.0-2023101 2	89	100	91	96
670-28575-10	LC34-DPT0982-025.0-2023101 2	89	100	94	98
670-28575-11	LC34-DPT0982-034.0-2023101 2	88	100	92	98
670-28575-12	LC34-DPT0982-038.0-2023101 2	87	99	92	98
670-28575-13	LC34-DPT0983-008.0-2023101 2	85	107	92	99
670-28575-14	LC34-DPT0983-013.0-2023101 2	87	100	93	97
670-28575-15	LC34-DPT0983-018.0-2023101 2	87	101	94	98
670-28575-16	LC34-DPT0983-025.0-2023101 2	88	105	94	100
670-28575-17	LC34-DPT0983-034.0-2023101 2	88	103	92	96
670-28575-18	LC34-DPT0983-038.0-2023101 2	87	101	94	97
670-28575-19	LC34-DPT0984-008.0-2023101 2	86	96	95	98
670-28575-20	LC34-DPT0984-013.0-2023101 2	89	102	94	98
670-28575-21	LC34-DPT0984-018.0-2023101 2	84	85	90	111
670-28575-21 - DL	LC34-DPT0984-018.0-2023101 2	88	102	93	96
670-28575-22	LC34-DPT0984-025.0-2023101 2	92	101	98	101
670-28575-22 - DL	LC34-DPT0984-025.0-2023101 2	86	87	90	115
670-28575-23	LC34-DPT0984-034.0-2023101 2	89	121	99	122
670-28575-23 - DL	LC34-DPT0984-034.0-2023101 2	89	103	91	98
LCS 680-802973/5	Lab Control Sample	99	90	98	94
LCS 680-802978/5	Lab Control Sample	99	97	100	95
LCS 680-803200/5	Lab Control Sample	92	100	97	95
LCSD 680-802973/6	Lab Control Sample Dup	100	91	98	93
LCSD 680-802978/6	Lab Control Sample Dup	103	100	101	95

Surrogate Summary

Client: Tetra Tech, Inc. Job ID: 670-28575-1
Project/Site: NASA KSC LC34 DPT

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(60-124)	(70-130)	(70-130)	(70-130)
LCSD 680-803200/8	Lab Control Sample Dup	108	98	102	95
MB 680-802973/9	Method Blank	89	102	96	103
MB 680-802978/9	Method Blank	87	101	94	100
MB 680-803200/11	Method Blank	86	102	91	99

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 680-802973/9
Matrix: Water
Analysis Batch: 802973

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/17/23 11:58	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/17/23 11:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/17/23 11:58	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/17/23 11:58	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/17/23 11:58	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/17/23 11:58	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/17/23 11:58	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/17/23 11:58	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/17/23 11:58	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 11:58	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/17/23 11:58	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/17/23 11:58	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 11:58	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 11:58	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/17/23 11:58	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/17/23 11:58	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/17/23 11:58	1
Acetone	3.7	U	10	3.7	ug/L			10/17/23 11:58	1
Benzene	0.27	U	1.0	0.27	ug/L			10/17/23 11:58	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/17/23 11:58	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/17/23 11:58	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/17/23 11:58	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/17/23 11:58	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/17/23 11:58	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/17/23 11:58	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/17/23 11:58	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/17/23 11:58	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/17/23 11:58	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/17/23 11:58	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/17/23 11:58	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/17/23 11:58	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/17/23 11:58	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/17/23 11:58	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/17/23 11:58	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/17/23 11:58	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/17/23 11:58	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/17/23 11:58	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/17/23 11:58	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/17/23 11:58	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/17/23 11:58	1
Styrene	0.27	U	1.0	0.27	ug/L			10/17/23 11:58	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/17/23 11:58	1
Toluene	0.25	U	1.0	0.25	ug/L			10/17/23 11:58	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/17/23 11:58	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/17/23 11:58	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/17/23 11:58	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/17/23 11:58	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/17/23 11:58	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-802973/9
Matrix: Water
Analysis Batch: 802973

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/17/23 11:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*60 - 124*		*10/17/23 11:58*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*10/17/23 11:58*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*10/17/23 11:58*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*10/17/23 11:58*	*1*

Lab Sample ID: LCS 680-802973/5
Matrix: Water
Analysis Batch: 802973

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	52.9		ug/L		106	70 - 130
1,1,2,2-Tetrachloroethane	50.0	41.9		ug/L		84	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	44.6		ug/L		89	63 - 141
1,1,2-Trichloroethane	50.0	45.4		ug/L		91	70 - 130
1,1-Dichloroethane	50.0	49.5		ug/L		99	70 - 130
1,1-Dichloroethene	50.0	47.9		ug/L		96	70 - 130
1,2,4-Trichlorobenzene	50.0	65.8	J3	ug/L		132	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	62.0		ug/L		124	70 - 130
1,2-Dibromoethane (EDB)	50.0	44.8		ug/L		90	70 - 130
1,2-Dichlorobenzene	50.0	55.3		ug/L		111	70 - 130
1,2-Dichloroethane	50.0	50.8		ug/L		102	70 - 130
1,2-Dichloropropane	50.0	49.2		ug/L		98	70 - 130
1,3-Dichlorobenzene	50.0	48.4		ug/L		97	70 - 130
1,4-Dichlorobenzene	50.0	47.9		ug/L		96	70 - 130
2-Butanone (MEK)	250	179		ug/L		72	69 - 120
2-Hexanone	250	219		ug/L		87	70 - 130
4-Methyl-2-pentanone	250	228		ug/L		91	68 - 120
Acetone	250	196		ug/L		78	67 - 120
Benzene	50.0	49.5		ug/L		99	70 - 130
Bromodichloromethane	50.0	46.0		ug/L		92	70 - 130
Bromoform	50.0	40.5		ug/L		81	69 - 129
Bromomethane	50.0	44.6		ug/L		89	28 - 192
Carbon disulfide	50.0	46.9		ug/L		94	70 - 130
Carbon tetrachloride	50.0	46.5		ug/L		93	70 - 130
Chlorobenzene	50.0	49.1		ug/L		98	70 - 130
Chloroethane	50.0	55.6		ug/L		111	31 - 213
Chloroform	50.0	47.9		ug/L		96	70 - 130
Chloromethane	50.0	49.4		ug/L		99	59 - 127
cis-1,2-Dichloroethene	50.0	50.7		ug/L		101	70 - 130
cis-1,3-Dichloropropene	50.0	47.0		ug/L		94	70 - 130
Cyclohexane	50.0	50.6		ug/L		101	23 - 175
Dibromochloromethane	50.0	43.2		ug/L		86	70 - 130
Dichlorodifluoromethane	50.0	50.2		ug/L		100	70 - 130
Ethylbenzene	50.0	51.0		ug/L		102	70 - 130
Isopropylbenzene	50.0	49.2		ug/L		98	70 - 130

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-802973/5
Matrix: Water
Analysis Batch: 802973

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
m,p-Xylenes	50.0	51.6		ug/L		103	70 - 130
Methyl acetate	100	91.5		ug/L		92	67 - 120
Methyl tert-butyl ether	50.0	46.3		ug/L		93	70 - 130
Methylene Chloride	50.0	48.6		ug/L		97	70 - 130
o-Xylene	50.0	50.3		ug/L		101	70 - 130
Styrene	50.0	51.0		ug/L		102	70 - 130
Tetrachloroethene	50.0	46.4		ug/L		93	70 - 130
Toluene	50.0	49.2		ug/L		98	70 - 130
trans-1,2-Dichloroethene	50.0	48.4		ug/L		97	70 - 130
trans-1,3-Dichloropropene	50.0	46.1		ug/L		92	70 - 130
Trichloroethene	50.0	50.3		ug/L		101	70 - 130
Trichlorofluoromethane	50.0	50.7		ug/L		101	63 - 142
Vinyl chloride	50.0	51.7		ug/L		103	66 - 129
Xylenes, Total	100	102		ug/L		102	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 124*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*
Dibromofluoromethane (Surr)	*98*		*70 - 130*
Toluene-d8 (Surr)	*94*		*70 - 130*

Lab Sample ID: LCSD 680-802973/6
Matrix: Water
Analysis Batch: 802973

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	50.0	52.3		ug/L		105	70 - 130	1	30
1,1,2,2-Tetrachloroethane	50.0	48.0		ug/L		96	70 - 130	14	30
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	49.5		ug/L		99	63 - 141	11	30
1,1,2-Trichloroethane	50.0	45.7		ug/L		91	70 - 130	1	30
1,1-Dichloroethane	50.0	48.9		ug/L		98	70 - 130	1	30
1,1-Dichloroethene	50.0	47.1		ug/L		94	70 - 130	2	20
1,2,4-Trichlorobenzene	50.0	58.2		ug/L		116	70 - 130	12	30
1,2-Dibromo-3-Chloropropane	50.0	57.1		ug/L		114	70 - 130	8	30
1,2-Dibromoethane (EDB)	50.0	45.2		ug/L		90	70 - 130	1	30
1,2-Dichlorobenzene	50.0	48.9		ug/L		98	70 - 130	12	30
1,2-Dichloroethane	50.0	51.0		ug/L		102	70 - 130	0	50
1,2-Dichloropropane	50.0	48.9		ug/L		98	70 - 130	1	20
1,3-Dichlorobenzene	50.0	47.9		ug/L		96	70 - 130	1	30
1,4-Dichlorobenzene	50.0	47.8		ug/L		96	70 - 130	0	30
2-Butanone (MEK)	250	193		ug/L		77	69 - 120	8	30
2-Hexanone	250	232		ug/L		93	70 - 130	6	20
4-Methyl-2-pentanone	250	241		ug/L		96	68 - 120	5	30
Acetone	250	207		ug/L		83	67 - 120	6	30
Benzene	50.0	48.9		ug/L		98	70 - 130	1	30
Bromodichloromethane	50.0	46.3		ug/L		93	70 - 130	1	30
Bromoform	50.0	41.9		ug/L		84	69 - 129	3	30
Bromomethane	50.0	40.6		ug/L		81	28 - 192	9	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-802973/6
Matrix: Water
Analysis Batch: 802973

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon disulfide	50.0	44.5		ug/L		89	70 - 130	5	30
Carbon tetrachloride	50.0	46.5		ug/L		93	70 - 130	0	30
Chlorobenzene	50.0	48.8		ug/L		98	70 - 130	0	30
Chloroethane	50.0	53.2		ug/L		106	31 - 213	4	30
Chloroform	50.0	48.0		ug/L		96	70 - 130	0	30
Chloromethane	50.0	46.8		ug/L		94	59 - 127	5	30
cis-1,2-Dichloroethene	50.0	50.3		ug/L		101	70 - 130	1	30
cis-1,3-Dichloropropene	50.0	46.3		ug/L		93	70 - 130	2	20
Cyclohexane	50.0	49.5		ug/L		99	23 - 175	2	30
Dibromochloromethane	50.0	44.2		ug/L		88	70 - 130	2	30
Dichlorodifluoromethane	50.0	47.9		ug/L		96	70 - 130	5	40
Ethylbenzene	50.0	49.8		ug/L		100	70 - 130	2	20
Isopropylbenzene	50.0	49.7		ug/L		99	70 - 130	1	30
m,p-Xylenes	50.0	50.5		ug/L		101	70 - 130	2	30
Methyl acetate	100	97.4		ug/L		97	67 - 120	6	30
Methyl tert-butyl ether	50.0	48.2		ug/L		96	70 - 130	4	30
Methylene Chloride	50.0	47.7		ug/L		95	70 - 130	2	30
o-Xylene	50.0	49.8		ug/L		100	70 - 130	1	30
Styrene	50.0	50.0		ug/L		100	70 - 130	2	30
Tetrachloroethene	50.0	46.0		ug/L		92	70 - 130	1	30
Toluene	50.0	48.8		ug/L		98	70 - 130	1	30
trans-1,2-Dichloroethene	50.0	47.9		ug/L		96	70 - 130	1	30
trans-1,3-Dichloropropene	50.0	47.0		ug/L		94	70 - 130	2	30
Trichloroethene	50.0	49.8		ug/L		100	70 - 130	1	30
Trichlorofluoromethane	50.0	49.0		ug/L		98	63 - 142	3	30
Vinyl chloride	50.0	49.6		ug/L		99	66 - 129	4	30
Xylenes, Total	100	100		ug/L		100	70 - 130	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 124*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*
Dibromofluoromethane (Surr)	*98*		*70 - 130*
Toluene-d8 (Surr)	*93*		*70 - 130*

Lab Sample ID: MB 680-802978/9
Matrix: Water
Analysis Batch: 802978

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/17/23 11:53	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/17/23 11:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/17/23 11:53	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/17/23 11:53	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/17/23 11:53	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/17/23 11:53	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/17/23 11:53	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/17/23 11:53	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/17/23 11:53	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-802978/9
Matrix: Water
Analysis Batch: 802978

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 11:53	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/17/23 11:53	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/17/23 11:53	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 11:53	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/17/23 11:53	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/17/23 11:53	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/17/23 11:53	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/17/23 11:53	1
Acetone	3.7	U	10	3.7	ug/L			10/17/23 11:53	1
Benzene	0.27	U	1.0	0.27	ug/L			10/17/23 11:53	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/17/23 11:53	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/17/23 11:53	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/17/23 11:53	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/17/23 11:53	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/17/23 11:53	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/17/23 11:53	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/17/23 11:53	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/17/23 11:53	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/17/23 11:53	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/17/23 11:53	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/17/23 11:53	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/17/23 11:53	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/17/23 11:53	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/17/23 11:53	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/17/23 11:53	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/17/23 11:53	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/17/23 11:53	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/17/23 11:53	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/17/23 11:53	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/17/23 11:53	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/17/23 11:53	1
Styrene	0.27	U	1.0	0.27	ug/L			10/17/23 11:53	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/17/23 11:53	1
Toluene	0.25	U	1.0	0.25	ug/L			10/17/23 11:53	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/17/23 11:53	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/17/23 11:53	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/17/23 11:53	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/17/23 11:53	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/17/23 11:53	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/17/23 11:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*87*		*60 - 124*		*10/17/23 11:53*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/17/23 11:53*	*1*
Dibromofluoromethane (Surr)	*94*		*70 - 130*		*10/17/23 11:53*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/17/23 11:53*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-802978/5
Matrix: Water
Analysis Batch: 802978

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	54.5		ug/L		109	70 - 130
1,1,2,2-Tetrachloroethane	50.0	56.1		ug/L		112	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	55.7		ug/L		111	63 - 141
1,1,2-Trichloroethane	50.0	50.8		ug/L		102	70 - 130
1,1-Dichloroethane	50.0	52.2		ug/L		104	70 - 130
1,1-Dichloroethene	50.0	48.0		ug/L		96	70 - 130
1,2,4-Trichlorobenzene	50.0	53.9		ug/L		108	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	58.9		ug/L		118	70 - 130
1,2-Dibromoethane (EDB)	50.0	51.4		ug/L		103	70 - 130
1,2-Dichlorobenzene	50.0	51.3		ug/L		103	70 - 130
1,2-Dichloroethane	50.0	50.5		ug/L		101	70 - 130
1,2-Dichloropropane	50.0	47.9		ug/L		96	70 - 130
1,3-Dichlorobenzene	50.0	51.2		ug/L		102	70 - 130
1,4-Dichlorobenzene	50.0	50.0		ug/L		100	70 - 130
2-Butanone (MEK)	250	287		ug/L		115	69 - 120
2-Hexanone	250	315		ug/L		126	70 - 130
4-Methyl-2-pentanone	250	288		ug/L		115	68 - 120
Acetone	250	244		ug/L		98	67 - 120
Benzene	50.0	51.4		ug/L		103	70 - 130
Bromodichloromethane	50.0	51.1		ug/L		102	70 - 130
Bromoform	50.0	52.5		ug/L		105	69 - 129
Bromomethane	50.0	47.5		ug/L		95	28 - 192
Carbon disulfide	50.0	51.1		ug/L		102	70 - 130
Carbon tetrachloride	50.0	55.7		ug/L		111	70 - 130
Chlorobenzene	50.0	50.4		ug/L		101	70 - 130
Chloroethane	50.0	49.8		ug/L		100	31 - 213
Chloroform	50.0	47.1		ug/L		94	70 - 130
Chloromethane	50.0	49.3		ug/L		99	59 - 127
cis-1,2-Dichloroethene	50.0	51.3		ug/L		103	70 - 130
cis-1,3-Dichloropropene	50.0	49.1		ug/L		98	70 - 130
Cyclohexane	50.0	50.1		ug/L		100	23 - 175
Dibromochloromethane	50.0	50.7		ug/L		101	70 - 130
Dichlorodifluoromethane	50.0	50.7		ug/L		101	70 - 130
Ethylbenzene	50.0	51.3		ug/L		103	70 - 130
Isopropylbenzene	50.0	53.0		ug/L		106	70 - 130
m,p-Xylenes	50.0	51.1		ug/L		102	70 - 130
Methyl acetate	100	95.5		ug/L		96	67 - 120
Methyl tert-butyl ether	50.0	53.1		ug/L		106	70 - 130
Methylene Chloride	50.0	49.5		ug/L		99	70 - 130
o-Xylene	50.0	51.4		ug/L		103	70 - 130
Styrene	50.0	53.6		ug/L		107	70 - 130
Tetrachloroethene	50.0	53.7		ug/L		107	70 - 130
Toluene	50.0	53.9		ug/L		108	70 - 130
trans-1,2-Dichloroethene	50.0	53.6		ug/L		107	70 - 130
trans-1,3-Dichloropropene	50.0	49.2		ug/L		98	70 - 130
Trichloroethene	50.0	51.0		ug/L		102	70 - 130
Trichlorofluoromethane	50.0	50.5		ug/L		101	63 - 142
Vinyl chloride	50.0	52.7		ug/L		105	66 - 129

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-802978/5
Matrix: Water
Analysis Batch: 802978

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Xylenes, Total			100	103		ug/L		103	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 124*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
Dibromofluoromethane (Surr)	*100*		*70 - 130*
Toluene-d8 (Surr)	*95*		*70 - 130*

Lab Sample ID: LCSD 680-802978/6
Matrix: Water
Analysis Batch: 802978

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane			50.0	54.5		ug/L		109	70 - 130	0	30
1,1,2,2-Tetrachloroethane			50.0	58.2		ug/L		116	70 - 130	4	30
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	53.8		ug/L		108	63 - 141	3	30
1,1,2-Trichloroethane			50.0	51.9		ug/L		104	70 - 130	2	30
1,1-Dichloroethane			50.0	52.1		ug/L		104	70 - 130	0	30
1,1-Dichloroethene			50.0	50.7		ug/L		101	70 - 130	6	20
1,2,4-Trichlorobenzene			50.0	53.9		ug/L		108	70 - 130	0	30
1,2-Dibromo-3-Chloropropane			50.0	61.3		ug/L		123	70 - 130	4	30
1,2-Dibromoethane (EDB)			50.0	53.9		ug/L		108	70 - 130	5	30
1,2-Dichlorobenzene			50.0	50.5		ug/L		101	70 - 130	2	30
1,2-Dichloroethane			50.0	53.1		ug/L		106	70 - 130	5	50
1,2-Dichloropropane			50.0	49.0		ug/L		98	70 - 130	2	20
1,3-Dichlorobenzene			50.0	50.6		ug/L		101	70 - 130	1	30
1,4-Dichlorobenzene			50.0	49.9		ug/L		100	70 - 130	0	30
2-Butanone (MEK)			250	298		ug/L		119	69 - 120	3	30
2-Hexanone			250	325		ug/L		130	70 - 130	3	20
4-Methyl-2-pentanone			250	303	J3	ug/L		121	68 - 120	5	30
Acetone			250	298		ug/L		119	67 - 120	20	30
Benzene			50.0	50.5		ug/L		101	70 - 130	2	30
Bromodichloromethane			50.0	52.2		ug/L		104	70 - 130	2	30
Bromoform			50.0	54.6		ug/L		109	69 - 129	4	30
Bromomethane			50.0	49.7		ug/L		99	28 - 192	5	30
Carbon disulfide			50.0	50.0		ug/L		100	70 - 130	2	30
Carbon tetrachloride			50.0	54.9		ug/L		110	70 - 130	1	30
Chlorobenzene			50.0	51.0		ug/L		102	70 - 130	1	30
Chloroethane			50.0	49.7		ug/L		99	31 - 213	0	30
Chloroform			50.0	46.6		ug/L		93	70 - 130	1	30
Chloromethane			50.0	48.2		ug/L		96	59 - 127	2	30
cis-1,2-Dichloroethene			50.0	52.0		ug/L		104	70 - 130	1	30
cis-1,3-Dichloropropene			50.0	49.8		ug/L		100	70 - 130	1	20
Cyclohexane			50.0	48.9		ug/L		98	23 - 175	2	30
Dibromochloromethane			50.0	51.7		ug/L		103	70 - 130	2	30
Dichlorodifluoromethane			50.0	48.6		ug/L		97	70 - 130	4	40
Ethylbenzene			50.0	51.1		ug/L		102	70 - 130	0	20
Isopropylbenzene			50.0	53.3		ug/L		107	70 - 130	1	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-802978/6
Matrix: Water
Analysis Batch: 802978

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m,p-Xylenes			50.0	51.1		ug/L		102	70 - 130	0	30
Methyl acetate			100	104		ug/L		104	67 - 120	9	30
Methyl tert-butyl ether			50.0	52.3		ug/L		105	70 - 130	1	30
Methylene Chloride			50.0	53.4		ug/L		107	70 - 130	8	30
o-Xylene			50.0	52.2		ug/L		104	70 - 130	1	30
Styrene			50.0	53.4		ug/L		107	70 - 130	0	30
Tetrachloroethene			50.0	53.8		ug/L		108	70 - 130	0	30
Toluene			50.0	53.9		ug/L		108	70 - 130	0	30
trans-1,2-Dichloroethene			50.0	53.3		ug/L		107	70 - 130	1	30
trans-1,3-Dichloropropene			50.0	50.3		ug/L		101	70 - 130	2	30
Trichloroethene			50.0	50.3		ug/L		101	70 - 130	1	30
Trichlorofluoromethane			50.0	51.6		ug/L		103	63 - 142	2	30
Vinyl chloride			50.0	49.5		ug/L		99	66 - 129	6	30
Xylenes, Total			100	103		ug/L		103	70 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 124*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*95*		*70 - 130*

Lab Sample ID: MB 680-803200/11
Matrix: Water
Analysis Batch: 803200

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/18/23 12:57	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/18/23 12:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/18/23 12:57	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/18/23 12:57	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/18/23 12:57	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/18/23 12:57	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/18/23 12:57	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/18/23 12:57	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/18/23 12:57	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/18/23 12:57	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/18/23 12:57	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/18/23 12:57	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/18/23 12:57	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/18/23 12:57	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/18/23 12:57	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/18/23 12:57	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/18/23 12:57	1
Acetone	3.7	U	10	3.7	ug/L			10/18/23 12:57	1
Benzene	0.27	U	1.0	0.27	ug/L			10/18/23 12:57	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/18/23 12:57	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/18/23 12:57	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/18/23 12:57	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-803200/11
Matrix: Water
Analysis Batch: 803200

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/18/23 12:57	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/18/23 12:57	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/18/23 12:57	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/18/23 12:57	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/18/23 12:57	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/18/23 12:57	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/18/23 12:57	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/18/23 12:57	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/18/23 12:57	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/18/23 12:57	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/18/23 12:57	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/18/23 12:57	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/18/23 12:57	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/18/23 12:57	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/18/23 12:57	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/18/23 12:57	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/18/23 12:57	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/18/23 12:57	1
Styrene	0.27	U	1.0	0.27	ug/L			10/18/23 12:57	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/18/23 12:57	1
Toluene	0.25	U	1.0	0.25	ug/L			10/18/23 12:57	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/18/23 12:57	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/18/23 12:57	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/18/23 12:57	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/18/23 12:57	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/18/23 12:57	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/18/23 12:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*60 - 124*		*10/18/23 12:57*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*10/18/23 12:57*	*1*
Dibromofluoromethane (Surr)	*91*		*70 - 130*		*10/18/23 12:57*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*10/18/23 12:57*	*1*

Lab Sample ID: LCS 680-803200/5
Matrix: Water
Analysis Batch: 803200

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	52.4		ug/L		105	70 - 130
1,1,2,2-Tetrachloroethane	50.0	59.3		ug/L		119	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	51.6		ug/L		103	63 - 141
1,1,2-Trichloroethane	50.0	51.3		ug/L		103	70 - 130
1,1-Dichloroethane	50.0	49.7		ug/L		99	70 - 130
1,1-Dichloroethene	50.0	49.7		ug/L		99	70 - 130
1,2,4-Trichlorobenzene	50.0	55.6		ug/L		111	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	63.6		ug/L		127	70 - 130
1,2-Dibromoethane (EDB)	50.0	53.6		ug/L		107	70 - 130

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-803200/5
Matrix: Water
Analysis Batch: 803200

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichlorobenzene	50.0	51.8		ug/L		104	70 - 130
1,2-Dichloroethane	50.0	49.9		ug/L		100	70 - 130
1,2-Dichloropropane	50.0	47.9		ug/L		96	70 - 130
1,3-Dichlorobenzene	50.0	51.0		ug/L		102	70 - 130
1,4-Dichlorobenzene	50.0	49.7		ug/L		99	70 - 130
2-Butanone (MEK)	250	304	J3	ug/L		122	69 - 120
2-Hexanone	250	347	J3	ug/L		139	70 - 130
4-Methyl-2-pentanone	250	314	J3	ug/L		125	68 - 120
Acetone	250	276		ug/L		111	67 - 120
Benzene	50.0	51.8		ug/L		104	70 - 130
Bromodichloromethane	50.0	50.2		ug/L		100	70 - 130
Bromoform	50.0	56.2		ug/L		112	69 - 129
Bromomethane	50.0	39.7		ug/L		79	28 - 192
Carbon disulfide	50.0	47.1		ug/L		94	70 - 130
Carbon tetrachloride	50.0	54.1		ug/L		108	70 - 130
Chlorobenzene	50.0	50.8		ug/L		102	70 - 130
Chloroethane	50.0	38.8		ug/L		78	31 - 213
Chloroform	50.0	44.7		ug/L		89	70 - 130
Chloromethane	50.0	39.1		ug/L		78	59 - 127
cis-1,2-Dichloroethene	50.0	49.5		ug/L		99	70 - 130
cis-1,3-Dichloropropene	50.0	49.1		ug/L		98	70 - 130
Cyclohexane	50.0	48.7		ug/L		97	23 - 175
Dibromochloromethane	50.0	52.1		ug/L		104	70 - 130
Dichlorodifluoromethane	50.0	46.4		ug/L		93	70 - 130
Ethylbenzene	50.0	51.1		ug/L		102	70 - 130
Isopropylbenzene	50.0	53.0		ug/L		106	70 - 130
m,p-Xylenes	50.0	50.8		ug/L		102	70 - 130
Methyl acetate	100	106		ug/L		106	67 - 120
Methyl tert-butyl ether	50.0	55.0		ug/L		110	70 - 130
Methylene Chloride	50.0	49.9		ug/L		100	70 - 130
o-Xylene	50.0	51.6		ug/L		103	70 - 130
Styrene	50.0	53.9		ug/L		108	70 - 130
Tetrachloroethene	50.0	52.1		ug/L		104	70 - 130
Toluene	50.0	52.6		ug/L		105	70 - 130
trans-1,2-Dichloroethene	50.0	51.1		ug/L		102	70 - 130
trans-1,3-Dichloropropene	50.0	50.8		ug/L		102	70 - 130
Trichloroethene	50.0	52.8		ug/L		106	70 - 130
Trichlorofluoromethane	50.0	46.3		ug/L		93	63 - 142
Vinyl chloride	50.0	45.6		ug/L		91	66 - 129
Xylenes, Total	100	102		ug/L		102	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*60 - 124*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
Dibromofluoromethane (Surr)	*97*		*70 - 130*
Toluene-d8 (Surr)	*95*		*70 - 130*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-803200/8
Matrix: Water
Analysis Batch: 803200

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	50.0	54.9		ug/L		110	70 - 130	5	30
1,1,2,2-Tetrachloroethane	50.0	58.7		ug/L		117	70 - 130	1	30
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	53.5		ug/L		107	63 - 141	4	30
1,1,2-Trichloroethane	50.0	53.2		ug/L		106	70 - 130	3	30
1,1-Dichloroethane	50.0	53.3		ug/L		107	70 - 130	7	30
1,1-Dichloroethene	50.0	48.3		ug/L		97	70 - 130	3	20
1,2,4-Trichlorobenzene	50.0	53.0		ug/L		106	70 - 130	5	30
1,2-Dibromo-3-Chloropropane	50.0	58.1		ug/L		116	70 - 130	9	30
1,2-Dibromoethane (EDB)	50.0	55.3		ug/L		111	70 - 130	3	30
1,2-Dichlorobenzene	50.0	52.2		ug/L		104	70 - 130	1	30
1,2-Dichloroethane	50.0	56.0		ug/L		112	70 - 130	11	50
1,2-Dichloropropane	50.0	49.7		ug/L		99	70 - 130	4	20
1,3-Dichlorobenzene	50.0	51.6		ug/L		103	70 - 130	1	30
1,4-Dichlorobenzene	50.0	50.4		ug/L		101	70 - 130	1	30
2-Butanone (MEK)	250	303	J3	ug/L		121	69 - 120	0	30
2-Hexanone	250	327	J3	ug/L		131	70 - 130	6	20
4-Methyl-2-pentanone	250	307	J3	ug/L		123	68 - 120	2	30
Acetone	250	283		ug/L		113	67 - 120	2	30
Benzene	50.0	52.2		ug/L		104	70 - 130	1	30
Bromodichloromethane	50.0	54.0		ug/L		108	70 - 130	7	30
Bromoform	50.0	54.6		ug/L		109	69 - 129	3	30
Bromomethane	50.0	44.2		ug/L		88	28 - 192	11	30
Carbon disulfide	50.0	49.2		ug/L		98	70 - 130	4	30
Carbon tetrachloride	50.0	54.6		ug/L		109	70 - 130	1	30
Chlorobenzene	50.0	50.8		ug/L		102	70 - 130	0	30
Chloroethane	50.0	43.2		ug/L		86	31 - 213	11	30
Chloroform	50.0	48.3		ug/L		97	70 - 130	8	30
Chloromethane	50.0	45.2		ug/L		90	59 - 127	14	30
cis-1,2-Dichloroethene	50.0	52.7		ug/L		105	70 - 130	6	30
cis-1,3-Dichloropropene	50.0	50.6		ug/L		101	70 - 130	3	20
Cyclohexane	50.0	47.4		ug/L		95	23 - 175	3	30
Dibromochloromethane	50.0	53.6		ug/L		107	70 - 130	3	30
Dichlorodifluoromethane	50.0	46.4		ug/L		93	70 - 130	0	40
Ethylbenzene	50.0	50.5		ug/L		101	70 - 130	1	20
Isopropylbenzene	50.0	51.1		ug/L		102	70 - 130	4	30
m,p-Xylenes	50.0	49.9		ug/L		100	70 - 130	2	30
Methyl acetate	100	105		ug/L		105	67 - 120	1	30
Methyl tert-butyl ether	50.0	56.9		ug/L		114	70 - 130	4	30
Methylene Chloride	50.0	54.9		ug/L		110	70 - 130	10	30
o-Xylene	50.0	51.3		ug/L		103	70 - 130	1	30
Styrene	50.0	53.3		ug/L		107	70 - 130	1	30
Tetrachloroethene	50.0	52.3		ug/L		105	70 - 130	0	30
Toluene	50.0	54.9		ug/L		110	70 - 130	4	30
trans-1,2-Dichloroethene	50.0	52.0		ug/L		104	70 - 130	2	30
trans-1,3-Dichloropropene	50.0	51.5		ug/L		103	70 - 130	1	30
Trichloroethene	50.0	51.0		ug/L		102	70 - 130	3	30
Trichlorofluoromethane	50.0	52.4		ug/L		105	63 - 142	12	30
Vinyl chloride	50.0	45.9		ug/L		92	66 - 129	1	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-803200/8
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 803200

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Xylenes, Total			100	101		ug/L		101	70 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*108*		*60 - 124*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
Dibromofluoromethane (Surr)	*102*		*70 - 130*
Toluene-d8 (Surr)	*95*		*70 - 130*

GC/MS VOA

Analysis Batch: 802973

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-28575-21	LC34-DPT0984-018.0-20231012	Total/NA	Water	8260D	
670-28575-22	LC34-DPT0984-025.0-20231012	Total/NA	Water	8260D	
670-28575-22 - DL	LC34-DPT0984-025.0-20231012	Total/NA	Water	8260D	
670-28575-23	LC34-DPT0984-034.0-20231012	Total/NA	Water	8260D	
MB 680-802973/9	Method Blank	Total/NA	Water	8260D	
LCS 680-802973/5	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-802973/6	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 802978

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-28575-1	LC34-DPT0981-008.0-20231011	Total/NA	Water	8260D	
670-28575-2	LC34-DPT0981-013.0-20231011	Total/NA	Water	8260D	
670-28575-3	LC34-DPT0981-018.0-20231011	Total/NA	Water	8260D	
670-28575-4	LC34-DPT0981-025.0-20231011	Total/NA	Water	8260D	
670-28575-5	LC34-DPT0981-034.0-20231011	Total/NA	Water	8260D	
670-28575-6	LC34-DPT0981-038.0-20231011	Total/NA	Water	8260D	
670-28575-7	LC34-DPT0982-008.0-20231012	Total/NA	Water	8260D	
670-28575-8	LC34-DPT0982-013.0-20231012	Total/NA	Water	8260D	
670-28575-9	LC34-DPT0982-018.0-20231012	Total/NA	Water	8260D	
670-28575-10	LC34-DPT0982-025.0-20231012	Total/NA	Water	8260D	
670-28575-11	LC34-DPT0982-034.0-20231012	Total/NA	Water	8260D	
670-28575-12	LC34-DPT0982-038.0-20231012	Total/NA	Water	8260D	
670-28575-13	LC34-DPT0983-008.0-20231012	Total/NA	Water	8260D	
670-28575-14	LC34-DPT0983-013.0-20231012	Total/NA	Water	8260D	
670-28575-15	LC34-DPT0983-018.0-20231012	Total/NA	Water	8260D	
670-28575-16	LC34-DPT0983-025.0-20231012	Total/NA	Water	8260D	
670-28575-17	LC34-DPT0983-034.0-20231012	Total/NA	Water	8260D	
670-28575-18	LC34-DPT0983-038.0-20231012	Total/NA	Water	8260D	
670-28575-19	LC34-DPT0984-008.0-20231012	Total/NA	Water	8260D	
670-28575-20	LC34-DPT0984-013.0-20231012	Total/NA	Water	8260D	
MB 680-802978/9	Method Blank	Total/NA	Water	8260D	
LCS 680-802978/5	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-802978/6	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 803200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-28575-21 - DL	LC34-DPT0984-018.0-20231012	Total/NA	Water	8260D	
670-28575-23 - DL	LC34-DPT0984-034.0-20231012	Total/NA	Water	8260D	
MB 680-803200/11	Method Blank	Total/NA	Water	8260D	
LCS 680-803200/5	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-803200/8	Lab Control Sample Dup	Total/NA	Water	8260D	

Lab Chronicle

Client: Tetra Tech, Inc.
Job ID: 670-28575-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT0981-008.0-20231011
Lab Sample ID: 670-28575-1
Date Collected: 10/11/23 14:25
Matrix: Water
Date Received: 10/13/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	802978	P1C	EET SAV	10/17/23 12:52

Client Sample ID: LC34-DPT0981-013.0-20231011
Lab Sample ID: 670-28575-2
Date Collected: 10/11/23 14:35
Matrix: Water
Date Received: 10/13/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	802978	P1C	EET SAV	10/17/23 13:11

Client Sample ID: LC34-DPT0981-018.0-20231011
Lab Sample ID: 670-28575-3
Date Collected: 10/11/23 14:50
Matrix: Water
Date Received: 10/13/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	802978	P1C	EET SAV	10/17/23 13:30

Client Sample ID: LC34-DPT0981-025.0-20231011
Lab Sample ID: 670-28575-4
Date Collected: 10/11/23 15:10
Matrix: Water
Date Received: 10/13/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	802978	P1C	EET SAV	10/17/23 13:49

Client Sample ID: LC34-DPT0981-034.0-20231011
Lab Sample ID: 670-28575-5
Date Collected: 10/11/23 15:30
Matrix: Water
Date Received: 10/13/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	802978	P1C	EET SAV	10/17/23 14:08

Client Sample ID: LC34-DPT0981-038.0-20231011
Lab Sample ID: 670-28575-6
Date Collected: 10/11/23 15:50
Matrix: Water
Date Received: 10/13/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	802978	P1C	EET SAV	10/17/23 14:27

Client Sample ID: LC34-DPT0982-008.0-20231012
Lab Sample ID: 670-28575-7
Date Collected: 10/12/23 08:05
Matrix: Water
Date Received: 10/13/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	802978	P1C	EET SAV	10/17/23 14:46

Lab Chronicle

Client: Tetra Tech, Inc.
Job ID: 670-28575-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT0982-013.0-20231012
Lab Sample ID: 670-28575-8
Date Collected: 10/12/23 08:20
Matrix: Water
Date Received: 10/13/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	802978	P1C	EET SAV	10/17/23 15:05

Client Sample ID: LC34-DPT0982-018.0-20231012
Lab Sample ID: 670-28575-9
Date Collected: 10/12/23 08:35
Matrix: Water
Date Received: 10/13/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		5	802978	P1C	EET SAV	10/17/23 17:57

Client Sample ID: LC34-DPT0982-025.0-20231012
Lab Sample ID: 670-28575-10
Date Collected: 10/12/23 08:50
Matrix: Water
Date Received: 10/13/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	802978	P1C	EET SAV	10/17/23 15:24

Client Sample ID: LC34-DPT0982-034.0-20231012
Lab Sample ID: 670-28575-11
Date Collected: 10/12/23 09:05
Matrix: Water
Date Received: 10/13/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	802978	P1C	EET SAV	10/17/23 15:43

Client Sample ID: LC34-DPT0982-038.0-20231012
Lab Sample ID: 670-28575-12
Date Collected: 10/12/23 09:25
Matrix: Water
Date Received: 10/13/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	802978	P1C	EET SAV	10/17/23 16:02

Client Sample ID: LC34-DPT0983-008.0-20231012
Lab Sample ID: 670-28575-13
Date Collected: 10/12/23 10:05
Matrix: Water
Date Received: 10/13/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	802978	P1C	EET SAV	10/17/23 16:21

Client Sample ID: LC34-DPT0983-013.0-20231012
Lab Sample ID: 670-28575-14
Date Collected: 10/12/23 10:15
Matrix: Water
Date Received: 10/13/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	802978	P1C	EET SAV	10/17/23 16:39

Lab Chronicle

Client: Tetra Tech, Inc.
Job ID: 670-28575-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT0983-018.0-20231012
Lab Sample ID: 670-28575-15
Date Collected: 10/12/23 10:30
Matrix: Water
Date Received: 10/13/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		2	802978	P1C	EET SAV	10/17/23 18:40

Client Sample ID: LC34-DPT0983-025.0-20231012
Lab Sample ID: 670-28575-16
Date Collected: 10/12/23 10:45
Matrix: Water
Date Received: 10/13/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		20	802978	P1C	EET SAV	10/17/23 17:36

Client Sample ID: LC34-DPT0983-034.0-20231012
Lab Sample ID: 670-28575-17
Date Collected: 10/12/23 11:00
Matrix: Water
Date Received: 10/13/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		2	802978	P1C	EET SAV	10/17/23 19:02

Client Sample ID: LC34-DPT0983-038.0-20231012
Lab Sample ID: 670-28575-18
Date Collected: 10/12/23 11:20
Matrix: Water
Date Received: 10/13/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	802978	P1C	EET SAV	10/17/23 16:58

Client Sample ID: LC34-DPT0984-008.0-20231012
Lab Sample ID: 670-28575-19
Date Collected: 10/12/23 11:55
Matrix: Water
Date Received: 10/13/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	802978	P1C	EET SAV	10/17/23 17:17

Client Sample ID: LC34-DPT0984-013.0-20231012
Lab Sample ID: 670-28575-20
Date Collected: 10/12/23 12:10
Matrix: Water
Date Received: 10/13/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		5	802978	P1C	EET SAV	10/17/23 18:19

Client Sample ID: LC34-DPT0984-018.0-20231012
Lab Sample ID: 670-28575-21
Date Collected: 10/12/23 12:25
Matrix: Water
Date Received: 10/13/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		25	802973	Y1S	EET SAV	10/17/23 18:04
Total/NA	Analysis	8260D	DL	50	803200	P1C	EET SAV	10/18/23 14:44

Lab Chronicle

Client: Tetra Tech, Inc.
Job ID: 670-28575-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT0984-025.0-20231012
Lab Sample ID: 670-28575-22
Date Collected: 10/12/23 12:45
Matrix: Water
Date Received: 10/13/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	802973	Y1S	EET SAV	10/17/23 13:13
Total/NA	Analysis	8260D	DL	100	802973	Y1S	EET SAV	10/17/23 18:45

Client Sample ID: LC34-DPT0984-034.0-20231012
Lab Sample ID: 670-28575-23
Date Collected: 10/12/23 13:05
Matrix: Water
Date Received: 10/13/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	802973	Y1S	EET SAV	10/17/23 13:33
Total/NA	Analysis	8260D	DL	5	803200	P1C	EET SAV	10/18/23 15:05

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: Tetra Tech, Inc.
Job ID: 670-28575-1
Project/Site: NASA KSC LC34 DPT

Laboratory: Eurofins Savannah

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
	AFCEE	SAVLAB	
Alabama	State	41450	06-30-24
ANAB	Dept. of Defense ELAP	L2463	10-26-23
Arkansas DEQ	State	19-015-0	02-01-24
California	State	2939	06-30-24
Florida	NELAP	E87052	06-30-24
Georgia	State	E87052	06-30-24
Georgia (DW)	State	803	06-30-24
Guam	State	19-007R	04-17-24
Hawaii	State	<cert No.>	06-30-24
Illinois	NELAP	200022	11-30-23
Indiana	State	C-GA-02	06-30-24
Iowa	State	353	07-01-25
Kentucky (UST)	State	NA	06-30-24
Louisiana	NELAP	30690	06-30-24
Louisiana (All)	NELAP	30690	06-30-24
Louisiana (DW)	State	LA009	12-31-23
Maine	State	GA00006	09-25-24
Maryland	State	250	12-31-23
Massachusetts	State	M-GA006	06-30-24
Michigan	State	9925	06-30-24
Mississippi	State	<cert No.>	06-30-24
Nebraska	State	NE-OS-7-04	06-30-24
New Jersey	NELAP	GA769	06-30-24
New Mexico	State	GA00006	06-30-24
North Carolina (DW)	State	13701	07-31-24
North Carolina (WW/SW)	State	269	12-31-23
Pennsylvania	NELAP	68-00474	06-30-24
Puerto Rico	State	GA00006	01-01-24
South Carolina	State	98001	06-24-24
Tennessee	State	TN02961	06-30-24
Texas	NELAP	T1047004185	11-30-23
Texas	TCEQ Water Supply	T104704185	06-30-24
USDA	US Federal Programs	P330-18-00313	09-03-24
Virginia	NELAP	460161	06-14-24
Wyoming	State	8TMS-L	06-30-24

Method Summary

Client: Tetra Tech, Inc.
Job ID: 670-28575-1
Project/Site: NASA KSC LC34 DPT

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET SAV
5030B	Purge and Trap	SW846	EET SAV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Sample Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28575-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
670-28575-1	LC34-DPT0981-008.0-20231011	Water	10/11/23 14:25	10/13/23 08:00
670-28575-2	LC34-DPT0981-013.0-20231011	Water	10/11/23 14:35	10/13/23 08:00
670-28575-3	LC34-DPT0981-018.0-20231011	Water	10/11/23 14:50	10/13/23 08:00
670-28575-4	LC34-DPT0981-025.0-20231011	Water	10/11/23 15:10	10/13/23 08:00
670-28575-5	LC34-DPT0981-034.0-20231011	Water	10/11/23 15:30	10/13/23 08:00
670-28575-6	LC34-DPT0981-038.0-20231011	Water	10/11/23 15:50	10/13/23 08:00
670-28575-7	LC34-DPT0982-008.0-20231012	Water	10/12/23 08:05	10/13/23 08:00
670-28575-8	LC34-DPT0982-013.0-20231012	Water	10/12/23 08:20	10/13/23 08:00
670-28575-9	LC34-DPT0982-018.0-20231012	Water	10/12/23 08:35	10/13/23 08:00
670-28575-10	LC34-DPT0982-025.0-20231012	Water	10/12/23 08:50	10/13/23 08:00
670-28575-11	LC34-DPT0982-034.0-20231012	Water	10/12/23 09:05	10/13/23 08:00
670-28575-12	LC34-DPT0982-038.0-20231012	Water	10/12/23 09:25	10/13/23 08:00
670-28575-13	LC34-DPT0983-008.0-20231012	Water	10/12/23 10:05	10/13/23 08:00
670-28575-14	LC34-DPT0983-013.0-20231012	Water	10/12/23 10:15	10/13/23 08:00
670-28575-15	LC34-DPT0983-018.0-20231012	Water	10/12/23 10:30	10/13/23 08:00
670-28575-16	LC34-DPT0983-025.0-20231012	Water	10/12/23 10:45	10/13/23 08:00
670-28575-17	LC34-DPT0983-034.0-20231012	Water	10/12/23 11:00	10/13/23 08:00
670-28575-18	LC34-DPT0983-038.0-20231012	Water	10/12/23 11:20	10/13/23 08:00
670-28575-19	LC34-DPT0984-008.0-20231012	Water	10/12/23 11:55	10/13/23 08:00
670-28575-20	LC34-DPT0984-013.0-20231012	Water	10/12/23 12:10	10/13/23 08:00
670-28575-21	LC34-DPT0984-018.0-20231012	Water	10/12/23 12:25	10/13/23 08:00
670-28575-22	LC34-DPT0984-025.0-20231012	Water	10/12/23 12:45	10/13/23 08:00
670-28575-23	LC34-DPT0984-034.0-20231012	Water	10/12/23 13:05	10/13/23 08:00

Tetra Tech, Inc. CHAIN OF CUSTODY | NUMBER No. 3769 | PAGE 1 OF 2

PROJECT NO: 112G08985	FACILITY: KSC-LC34	PROJECT MANAGER Mark Jonnet	PHONE NUMBER (412) 921-8622	LABORATORY NAME AND CONTACT: Eurofins — Kaitlin Dylnicki
SAMPLERS (SIGNATURE) – Chuck Sorden		FIELD OPERATIONS LEADER Chuck Sorden	PHONE NUMBER (321) 591-7580	ADDRESS 481 Newburyport Ave.
		CARRIER/WAYBILL NUMBER		CITY, STATE Altamonte Springs, FL

STANDARD TAT ☒
RUSH TAT ☐ ☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE (2023)	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)		COMMENTS
									G	G	
									PRESERVATIVE USED		HCl/4°C	4°C	
									TYPE OF ANALYSIS		8260D-(MOD) NASA LC34 Custom List	8260D-(MOD) NASA LC34 Custom List	
10/11	1425	LC34-DPT0981-008.0-20231011	114	6	10	GW	G	4	X	X	
	1435	LC34-DPT0981-013.0-20231011		11	15						
	1450	LC34-DPT0981-018.0-20231011		16	20						
	1510	LC34-DPT0981-025.0-20231011		23	27						
	1530	LC34-DPT0981-034.0-20231011		32	36						
10/11	1550	LC34-DPT0981-038.0-20231011	114	36	40						
10/12	0805	LC34-DPT0982-008.0-20231012	113	6	10						
	0820	LC34-DPT0982-013.0-20231012		11	15						
	0835	LC34-DPT0982-018.0-20231012		16	20						
	0850	LC34-DPT0982-025.0-20231012		23	27						
	0905	LC34-DPT0982-034.0-20231012		32	36						
	0925	LC34-DPT0982-038.0-20231012	113	36	40						
10/12	1005	LC34-DPT0983-008-20231012	111	6	10	GW	G	4	X	X	

670-28575 Chain of Custody

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	10/12/23	1415	1. RECEIVED BY MC	10/13/23	0800
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS 0.8/0.3

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

596 FORM NO. TtNUS-0002 4/02R 11/1/2023

Tetra Tech, Inc.

CHAIN OF CUSTODY | NUMBER No. 3770 | PAGE 2 OF 2

PROJECT NO: 112G08985	FACILITY: KSC-LC34	PROJECT MANAGER Mark Sonner	PHONE NUMBER (412) 921-8622	LABORATORY NAME AND CONTACT: Eurofins — Kaitlin Dylnicki
SAMPLERS (SIGNATURE) – Chuck Scrden		FIELD OPERATIONS LEADER Chuck Scrden	PHONE NUMBER (321) 591-7580	ADDRESS 481 Newburyport Ave.
		CARRIER/WAYBILL NUMBER		CITY, STATE Altamonte Springs, FL

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE (MM/DD)	YEAR	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)									COMMENTS
										G	G								
										HCl/4°C	4°C								
										TYPE OF ANALYSIS: 8260D-(MOD) NASA LC34 Custom List	8260D-(MOD) NASA LC34 Custom List								
10/12	2023	1015	LC34-DPT0983-013.0-20231012	111	11	15	GW	G	4	X	X								
		1030	LC34-DPT0983-018.0-20231012		16	20													
		1045	LC34-DPT0983-025.0-20231012		23	27													
		1100	LC34-DPT0983-034.0-20231012		32	36													
		1120	LC34-DPT0983-038.0-20231012	111	36	40													
		1155	LC34-DPT0984-008.0-20231012	122	6	10													
		1210	LC34-DPT0984-013.0-20231012		11	15													
		1225	LC34-DPT0984-018.0-20231012		16	20													
		1245	LC34-DPT0984-025.0-20231012		23	27													
10/12		1305	LC34-DPT0984-034.0-20231012	122	32	36	GW	G	4	X	X								

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	10/12/23	1415	1. RECEIVED BY MC	10/13/23	8:00
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS 0.8/0.3

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
SGK FORM NO. TINUS/1/2023

Eurofins Orlando
481 Newburyport Avenue
Altamonte Springs, FL 32701
Phone: 407-339-5984 Fax: 407-260-6110

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Dylnicki, Kaitlin	Carrier Tracking No(s):	COC No: 670-16938.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: kaitlin.dylnicki@et.eurofinsus.com	State of Origin: Florida	Page: Page 1 of 3
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP - Florida		Job #: 670-28575-1
Address: 5102 LaRoche Avenue, .	Due Date Requested: 10/25/2023			
City: Savannah	TAT Requested (days):			
State, Zip: GA, 31404				
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	PO #:			
Email:	WO #:			
Project Name: NASA KSC LC34	Project #: 67001156			
Site:	SSOW#:			

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D/5030B (MOD) NASA LC34 Custom	8260D/5030B_UP (MOD) NASA LC34 Custom	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
LC34-DPT0981-008.0-20231011 (670-28575-1)	10/11/23	14:25 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0981-013.0-20231011 (670-28575-2)	10/11/23	14:35 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0981-018.0-20231011 (670-28575-3)	10/11/23	14:50 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0981-025.0-20231011 (670-28575-4)	10/11/23	15:10 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0981-034.0-20231011 (670-28575-5)	10/11/23	15:30 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0981-038.0-20231011 (670-28575-6)	10/11/23	15:50 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0982-008.0-20231012 (670-28575-7)	10/11/23	08:05 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0982-013.0-20231012 (670-28575-8)	10/11/23	08:20 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0982-018.0-20231012 (670-28575-9)	10/11/23	08:35 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)***
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	10/13 1510				
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: C.M	Date/Time: 10/14/23 0937	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.4/2.7

Eurofins Orlando
481 Newburyport Avenue
Altamonte Springs, FL 32701
Phone: 407-339-5984 Fax: 407-260-6110

Chain of Custody Record

eurofins Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Dylnicki, Kaitlin	Carrier Tracking No(s):	COC No: 670-16938.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: kaitlin.dylnicki@et.eurofinsus.com	State of Origin: Florida	Page: Page 2 of 3
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP - Florida		Job #: 670-28575-1
Address: 5102 LaRoche Avenue, ,	Due Date Requested: 10/25/2023			
City: Savannah	TAT Requested (days):			
State, Zip: GA, 31404				
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	PO #:			
Email:	WO #:			
Project Name: NASA KSC LC34	Project #: 67001156			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D/5030B (MOD) NASA LC34 Custom	8260D/5030B_UP (MOD) NASA LC34 Custom	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
LC34-DPT0982-025.0-20231012 (670-28575-10)	10/11/23	08:50 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0982-034.0-20231012 (670-28575-11)	10/11/23	09:05 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0982-038.0-20231012 (670-28575-12)	10/11/23	09:25 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0983-008.0-20231012 (670-28575-13)	10/11/23	10:05 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0983-013.0-20231012 (670-28575-14)	10/11/23	10:15 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0983-018.0-20231012 (670-28575-15)	10/11/23	10:30 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0983-025.0-20231012 (670-28575-16)	10/11/23	10:45 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0983-034.0-20231012 (670-28575-17)	10/11/23	11:00 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0983-038.0-20231012 (670-28575-18)	10/11/23	11:20 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	10/13 1510				
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: C. Mm	Date/Time: 10/14/23 0937	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.4/2.7

Eurofins Orlando
481 Newburyport Avenue
Altamonte Springs, FL 32701
Phone: 407-339-5984 Fax: 407-260-6110

Chain of Custody Record

eurofins
Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Dylnicki, Kaitlin	Carrier Tracking No(s):	COC No: 670-16938.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: kaitlin.dylnicki@et.eurofinsus.com	State of Origin: Florida	Page: Page 3 of 3
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP - Florida		Job #: 670-28575-1
Address: 5102 LaRoche Avenue, ,	Due Date Requested: 10/25/2023			
City: Savannah	TAT Requested (days):			
State, Zip: GA, 31404				
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	PO #:			
Email:	WO #:			
Project Name: NASA KSC LC34	Project #: 67001156			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D/5030B (MOD) NASA LC34 Custom	8260D/5030B_UP (MOD) NASA LC34 Custom	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
LC34-DPT0984-008.0-20231012 (670-28575-19)	10/11/23	11:55 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0984-013.0-20231012 (670-28575-20)	10/11/23	12:10 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0984-018.0-20231012 (670-28575-21)	10/11/23	12:25 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0984-025.0-20231012 (670-28575-22)	10/11/23	12:45 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0984-034.0-20231012 (670-28575-23)	10/11/23	13:05 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)***
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 10/13 1510	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: C. Mmu	Date/Time: 10/14/23 0937	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.4/2.7

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 670-28575-1

Login Number: 28575

List Number: 1

Creator: Clerisier, Meline

List Source: Eurofins Orlando

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 670-28575-1

Login Number: 28575
List Number: 2
Creator: Munro, Caroline

List Source: Eurofins Savannah
List Creation: 10/14/23 02:07 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	False	Refer to Job Narrative for details.
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Mark Jonnet
Tetra Tech, Inc.
Foster Plaza 7
661 Anderson Drive
Suite 200
Pittsburgh, Pennsylvania 15220-2745

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JOB DESCRIPTION

NASA KSC LC34 - DPT

JOB NUMBER

670-28660-1

Eurofins Orlando
481 Newburyport Avenue
Altamonte Springs FL 32701

See page two for job notes and contact information.

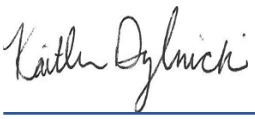
my EOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization



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Authorized for release by
Kaitlin Dylnicki, Project Manager
kaitlin.dylnicki@et.eurofinsus.com
(407)339-5984

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Definitions/Glossary

Client: Tetra Tech, Inc.
Job ID: 670-28660-1
Project/Site: NASA KSC LC34 - DPT

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
U	Indicates that the compound was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 670-28660-1

Laboratory: Eurofins Orlando

Narrative

Job Narrative
Client: Tetra Tech
Client PM: Mark Jonnet
Project: NASA KSC LC34
Project Number: 112G08985
670-28660-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 10/14/2023 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.5°C

GC/MS VOA
Method 8260D: The continuing calibration verification (CCV) analyzed in batch 680-803455 was outside the method criteria for the following analyte(s): 2-Butanone (MEK) and Trichlorofluoromethane. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. Analytes were ND in the samples.

Method 8260D: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 680-803455 recovered outside control limits for the following analytes: Trichlorofluoromethane.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Tetra Tech, Inc.
Job ID: 670-28660-1
Project/Site: NASA KSC LC34 - DPT

Client Sample ID: LC34-DPT0984-038.0-20231013 — Lab Sample ID: 670-28660-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	1.1	I	2.0	0.43	ug/L	1		8260D	Total/NA
Vinyl chloride	30		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0985-008.0-20231013 — Lab Sample ID: 670-28660-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	30		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	53		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0985-013.0-20231013 — Lab Sample ID: 670-28660-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	60		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	79		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0985-018.0-20231013 — Lab Sample ID: 670-28660-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	400		5.0	1.3	ug/L	5		8260D	Total/NA
trans-1,2-Dichloroethene	7.1		5.0	1.7	ug/L	5		8260D	Total/NA
Vinyl chloride	440		5.0	2.0	ug/L	5		8260D	Total/NA

Client Sample ID: LC34-DPT0985-025.0-20231013 — Lab Sample ID: 670-28660-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	1500		10	4.0	ug/L	10		8260D	Total/NA

Client Sample ID: LC34-DPT0985-034.0-20231013 — Lab Sample ID: 670-28660-6

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	1.0	I	2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	16		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	79		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0985-038.0-20231013 — Lab Sample ID: 670-28660-7

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.78	I	2.0	0.43	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0986-008.0-20231013 — Lab Sample ID: 670-28660-8

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	42		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	54		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0986-013.0-20231013 — Lab Sample ID: 670-28660-9

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	40		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	48		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0986-018.0-20231013 — Lab Sample ID: 670-28660-10

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	200		2.0	0.50	ug/L	2		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Orlando

Detection Summary

Client: Tetra Tech, Inc.
Job ID: 670-28660-1
Project/Site: NASA KSC LC34 - DPT

Client Sample ID: LC34-DPT0986-018.0-20231013 (Continued) — Lab Sample ID: 670-28660-10

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
trans-1,2-Dichloroethene	2.0		2.0	0.68	ug/L	2		8260D	Total/NA
Vinyl chloride	110		2.0	0.80	ug/L	2		8260D	Total/NA

Client Sample ID: LC34-DPT0986-025.0-20231013 — Lab Sample ID: 670-28660-11

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	200		1.0	0.25	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	4.7		1.0	0.34	ug/L	1		8260D	Total/NA
Vinyl chloride - DL	210		2.0	0.80	ug/L	2		8260D	Total/NA

Client Sample ID: LC34-DPT0986-034.0-20231013 — Lab Sample ID: 670-28660-12

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	1.2	I	2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	21		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	79		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0986-038.0-20231013 — Lab Sample ID: 670-28660-13

No Detections.

Client Sample ID: LC34-DPT0987-008.0-20231013 — Lab Sample ID: 670-28660-14

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	43		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	57		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0987-013.0-20231013 — Lab Sample ID: 670-28660-15

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	59		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	75		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0987-018.0-20231013 — Lab Sample ID: 670-28660-16

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	120		1.0	0.25	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	0.49	I	1.0	0.34	ug/L	1		8260D	Total/NA
Vinyl chloride	120		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0987-025.0-20231013 — Lab Sample ID: 670-28660-17

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	56		1.0	0.25	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	1.3		1.0	0.34	ug/L	1		8260D	Total/NA
Vinyl chloride	110		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0987-034.0-20231013 — Lab Sample ID: 670-28660-18

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	230		2.0	0.50	ug/L	2		8260D	Total/NA
trans-1,2-Dichloroethene	1.1	I	2.0	0.68	ug/L	2		8260D	Total/NA
Vinyl chloride	72		2.0	0.80	ug/L	2		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Tetra Tech, Inc.
Job ID: 670-28660-1
Project/Site: NASA KSC LC34 - DPT

Client Sample ID: LC34-DPT0987-038.0-20231013
Lab Sample ID: 670-28660-19

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.8		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	0.52	I	1.0	0.40	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Tetra Tech, Inc.
Job ID: 670-28660-1
Project/Site: NASA KSC LC34 - DPT

Client Sample ID: LC34-DPT0984-038.0-20231013
Lab Sample ID: 670-28660-1
Date Collected: 10/13/23 08:00
Matrix: Water
Date Received: 10/14/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/19/23 13:47	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/19/23 13:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/19/23 13:47	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/19/23 13:47	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/19/23 13:47	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/19/23 13:47	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/19/23 13:47	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/19/23 13:47	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/19/23 13:47	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/19/23 13:47	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/19/23 13:47	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/19/23 13:47	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/19/23 13:47	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/19/23 13:47	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/19/23 13:47	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/19/23 13:47	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/19/23 13:47	1
Acetone	3.7	U	10	3.7	ug/L			10/19/23 13:47	1
Benzene	0.27	U	1.0	0.27	ug/L			10/19/23 13:47	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/19/23 13:47	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/19/23 13:47	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/19/23 13:47	1
Carbon disulfide	**1.1**	**I**	2.0	0.43	ug/L			10/19/23 13:47	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/19/23 13:47	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/19/23 13:47	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/19/23 13:47	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/19/23 13:47	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/19/23 13:47	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/19/23 13:47	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/19/23 13:47	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/19/23 13:47	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/19/23 13:47	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/19/23 13:47	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/19/23 13:47	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/19/23 13:47	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/19/23 13:47	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/19/23 13:47	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/19/23 13:47	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/19/23 13:47	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/19/23 13:47	1
Styrene	0.27	U	1.0	0.27	ug/L			10/19/23 13:47	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/19/23 13:47	1
Toluene	0.25	U	1.0	0.25	ug/L			10/19/23 13:47	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/19/23 13:47	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/19/23 13:47	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/19/23 13:47	1
Trichlorofluoromethane	0.33	U J3	1.0	0.33	ug/L			10/19/23 13:47	1
Vinyl chloride	**30**		1.0	0.40	ug/L			10/19/23 13:47	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/19/23 13:47	1

Client Sample ID: LC34-DPT0984-038.0-20231013
Lab Sample ID: 670-28660-1

Date Collected: 10/13/23 08:00
Matrix: Water
Date Received: 10/14/23 08:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 124*		*10/19/23 13:47*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/19/23 13:47*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*10/19/23 13:47*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*10/19/23 13:47*	*1*

Client Sample ID: LC34-DPT0985-008.0-20231013
Lab Sample ID: 670-28660-2

Date Collected: 10/13/23 08:35
Matrix: Water
Date Received: 10/14/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/19/23 14:06	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/19/23 14:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/19/23 14:06	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/19/23 14:06	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/19/23 14:06	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/19/23 14:06	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/19/23 14:06	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/19/23 14:06	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/19/23 14:06	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/19/23 14:06	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/19/23 14:06	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/19/23 14:06	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/19/23 14:06	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/19/23 14:06	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/19/23 14:06	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/19/23 14:06	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/19/23 14:06	1
Acetone	3.7	U	10	3.7	ug/L			10/19/23 14:06	1
Benzene	0.27	U	1.0	0.27	ug/L			10/19/23 14:06	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/19/23 14:06	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/19/23 14:06	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/19/23 14:06	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/19/23 14:06	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/19/23 14:06	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/19/23 14:06	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/19/23 14:06	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/19/23 14:06	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/19/23 14:06	1
cis-1,2-Dichloroethene	**30**		1.0	0.25	ug/L			10/19/23 14:06	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/19/23 14:06	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/19/23 14:06	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/19/23 14:06	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/19/23 14:06	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/19/23 14:06	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/19/23 14:06	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/19/23 14:06	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/19/23 14:06	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/19/23 14:06	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/19/23 14:06	1

Client Sample ID: LC34-DPT0985-008.0-20231013
Lab Sample ID: 670-28660-2

Date Collected: 10/13/23 08:35
Matrix: Water
Date Received: 10/14/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	0.26	U	1.0	0.26	ug/L			10/19/23 14:06	1
Styrene	0.27	U	1.0	0.27	ug/L			10/19/23 14:06	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/19/23 14:06	1
Toluene	0.25	U	1.0	0.25	ug/L			10/19/23 14:06	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/19/23 14:06	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/19/23 14:06	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/19/23 14:06	1
Trichlorofluoromethane	0.33	U J3	1.0	0.33	ug/L			10/19/23 14:06	1
Vinyl chloride	**53**		1.0	0.40	ug/L			10/19/23 14:06	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/19/23 14:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 124*		*10/19/23 14:06*	*1*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*10/19/23 14:06*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*10/19/23 14:06*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*10/19/23 14:06*	*1*

Client Sample ID: LC34-DPT0985-013.0-20231013
Lab Sample ID: 670-28660-3

Date Collected: 10/13/23 08:45
Matrix: Water
Date Received: 10/14/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/19/23 14:25	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/19/23 14:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/19/23 14:25	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/19/23 14:25	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/19/23 14:25	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/19/23 14:25	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/19/23 14:25	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/19/23 14:25	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/19/23 14:25	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/19/23 14:25	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/19/23 14:25	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/19/23 14:25	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/19/23 14:25	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/19/23 14:25	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/19/23 14:25	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/19/23 14:25	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/19/23 14:25	1
Acetone	3.7	U	10	3.7	ug/L			10/19/23 14:25	1
Benzene	0.27	U	1.0	0.27	ug/L			10/19/23 14:25	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/19/23 14:25	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/19/23 14:25	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/19/23 14:25	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/19/23 14:25	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/19/23 14:25	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/19/23 14:25	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/19/23 14:25	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/19/23 14:25	1

Client Sample ID: LC34-DPT0985-013.0-20231013
Lab Sample ID: 670-28660-3

Date Collected: 10/13/23 08:45
Matrix: Water
Date Received: 10/14/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	0.54	U	1.0	0.54	ug/L			10/19/23 14:25	1
cis-1,2-Dichloroethene	**60**		1.0	0.25	ug/L			10/19/23 14:25	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/19/23 14:25	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/19/23 14:25	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/19/23 14:25	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/19/23 14:25	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/19/23 14:25	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/19/23 14:25	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/19/23 14:25	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/19/23 14:25	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/19/23 14:25	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/19/23 14:25	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/19/23 14:25	1
Styrene	0.27	U	1.0	0.27	ug/L			10/19/23 14:25	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/19/23 14:25	1
Toluene	0.25	U	1.0	0.25	ug/L			10/19/23 14:25	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/19/23 14:25	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/19/23 14:25	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/19/23 14:25	1
Trichlorofluoromethane	0.33	U J3	1.0	0.33	ug/L			10/19/23 14:25	1
Vinyl chloride	**79**		1.0	0.40	ug/L			10/19/23 14:25	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/19/23 14:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 124*		*10/19/23 14:25*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*10/19/23 14:25*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*10/19/23 14:25*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*10/19/23 14:25*	*1*

Client Sample ID: LC34-DPT0985-018.0-20231013
Lab Sample ID: 670-28660-4

Date Collected: 10/13/23 09:00
Matrix: Water
Date Received: 10/14/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	5.0	1.1	ug/L			10/19/23 19:13	5
1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	ug/L			10/19/23 19:13	5
1,1,2-Trichloro-1,2,2-trifluoroethane	1.2	U	5.0	1.2	ug/L			10/19/23 19:13	5
1,1,2-Trichloroethane	1.6	U	5.0	1.6	ug/L			10/19/23 19:13	5
1,1-Dichloroethane	1.7	U	5.0	1.7	ug/L			10/19/23 19:13	5
1,1-Dichloroethene	1.7	U	5.0	1.7	ug/L			10/19/23 19:13	5
1,2,4-Trichlorobenzene	2.7	U	25	2.7	ug/L			10/19/23 19:13	5
1,2-Dibromo-3-Chloropropane	9.0	U	25	9.0	ug/L			10/19/23 19:13	5
1,2-Dibromoethane (EDB)	1.7	U	5.0	1.7	ug/L			10/19/23 19:13	5
1,2-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/19/23 19:13	5
1,2-Dichloroethane	1.3	U	5.0	1.3	ug/L			10/19/23 19:13	5
1,2-Dichloropropane	1.1	U	5.0	1.1	ug/L			10/19/23 19:13	5
1,3-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/19/23 19:13	5
1,4-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/19/23 19:13	5
2-Butanone (MEK)	32	U	50	32	ug/L			10/19/23 19:13	5

Client Sample ID: LC34-DPT0985-018.0-20231013
Lab Sample ID: 670-28660-4

Date Collected: 10/13/23 09:00
Matrix: Water
Date Received: 10/14/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	16	U	50	16	ug/L			10/19/23 19:13	5
4-Methyl-2-pentanone	14	U	50	14	ug/L			10/19/23 19:13	5
Acetone	19	U	50	19	ug/L			10/19/23 19:13	5
Benzene	1.4	U	5.0	1.4	ug/L			10/19/23 19:13	5
Bromodichloromethane	1.3	U	5.0	1.3	ug/L			10/19/23 19:13	5
Bromoform	3.0	U	5.0	3.0	ug/L			10/19/23 19:13	5
Bromomethane	19	U	25	19	ug/L			10/19/23 19:13	5
Carbon disulfide	2.2	U	10	2.2	ug/L			10/19/23 19:13	5
Carbon tetrachloride	1.5	U	5.0	1.5	ug/L			10/19/23 19:13	5
Chlorobenzene	0.75	U	5.0	0.75	ug/L			10/19/23 19:13	5
Chloroethane	23	U	25	23	ug/L			10/19/23 19:13	5
Chloroform	1.4	U	5.0	1.4	ug/L			10/19/23 19:13	5
Chloromethane	2.7	U	5.0	2.7	ug/L			10/19/23 19:13	5
cis-1,2-Dichloroethene	**400**		5.0	1.3	ug/L			10/19/23 19:13	5
cis-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			10/19/23 19:13	5
Cyclohexane	1.4	U	5.0	1.4	ug/L			10/19/23 19:13	5
Dibromochloromethane	2.0	U	5.0	2.0	ug/L			10/19/23 19:13	5
Dichlorodifluoromethane	1.8	U	5.0	1.8	ug/L			10/19/23 19:13	5
Ethylbenzene	1.0	U	5.0	1.0	ug/L			10/19/23 19:13	5
Isopropylbenzene	1.3	U	5.0	1.3	ug/L			10/19/23 19:13	5
m,p-Xylenes	2.5	U	5.0	2.5	ug/L			10/19/23 19:13	5
Methyl acetate	16	U	25	16	ug/L			10/19/23 19:13	5
Methyl tert-butyl ether	4.1	U	25	4.1	ug/L			10/19/23 19:13	5
Methylene Chloride	16	U	25	16	ug/L			10/19/23 19:13	5
o-Xylene	1.3	U	5.0	1.3	ug/L			10/19/23 19:13	5
Styrene	1.4	U	5.0	1.4	ug/L			10/19/23 19:13	5
Tetrachloroethene	1.8	U	5.0	1.8	ug/L			10/19/23 19:13	5
Toluene	1.3	U	5.0	1.3	ug/L			10/19/23 19:13	5
trans-1,2-Dichloroethene	**7.1**		5.0	1.7	ug/L			10/19/23 19:13	5
trans-1,3-Dichloropropene	1.2	U	5.0	1.2	ug/L			10/19/23 19:13	5
Trichloroethene	1.0	U	5.0	1.0	ug/L			10/19/23 19:13	5
Trichlorofluoromethane	1.7	U J3	5.0	1.7	ug/L			10/19/23 19:13	5
Vinyl chloride	**440**		5.0	2.0	ug/L			10/19/23 19:13	5
Xylenes, Total	1.2	U	5.0	1.2	ug/L			10/19/23 19:13	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 124*		*10/19/23 19:13*	*5*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*10/19/23 19:13*	*5*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*10/19/23 19:13*	*5*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/19/23 19:13*	*5*

Client Sample ID: LC34-DPT0985-025.0-20231013
Lab Sample ID: 670-28660-5

Date Collected: 10/13/23 09:15
Matrix: Water
Date Received: 10/14/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2.1	U	10	2.1	ug/L			10/19/23 18:52	10
1,1,2,2-Tetrachloroethane	4.0	U	10	4.0	ug/L			10/19/23 18:52	10
1,1,2-Trichloro-1,2,2-trifluoroethane	2.3	U	10	2.3	ug/L			10/19/23 18:52	10

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 - DPT

Job ID: 670-28660-1

Client Sample ID: LC34-DPT0985-025.0-20231013
Date Collected: 10/13/23 09:15
Date Received: 10/14/23 08:00

Lab Sample ID: 670-28660-5
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	3.2	U	10	3.2	ug/L			10/19/23 18:52	10
1,1-Dichloroethane	3.3	U	10	3.3	ug/L			10/19/23 18:52	10
1,1-Dichloroethene	3.3	U	10	3.3	ug/L			10/19/23 18:52	10
1,2,4-Trichlorobenzene	5.3	U	50	5.3	ug/L			10/19/23 18:52	10
1,2-Dibromo-3-Chloropropane	18	U	50	18	ug/L			10/19/23 18:52	10
1,2-Dibromoethane (EDB)	3.3	U	10	3.3	ug/L			10/19/23 18:52	10
1,2-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/19/23 18:52	10
1,2-Dichloroethane	2.5	U	10	2.5	ug/L			10/19/23 18:52	10
1,2-Dichloropropane	2.2	U	10	2.2	ug/L			10/19/23 18:52	10
1,3-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/19/23 18:52	10
1,4-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/19/23 18:52	10
2-Butanone (MEK)	64	U	100	64	ug/L			10/19/23 18:52	10
2-Hexanone	32	U	100	32	ug/L			10/19/23 18:52	10
4-Methyl-2-pentanone	27	U	100	27	ug/L			10/19/23 18:52	10
Acetone	37	U	100	37	ug/L			10/19/23 18:52	10
Benzene	2.7	U	10	2.7	ug/L			10/19/23 18:52	10
Bromodichloromethane	2.5	U	10	2.5	ug/L			10/19/23 18:52	10
Bromoform	5.9	U	10	5.9	ug/L			10/19/23 18:52	10
Bromomethane	37	U	50	37	ug/L			10/19/23 18:52	10
Carbon disulfide	4.3	U	20	4.3	ug/L			10/19/23 18:52	10
Carbon tetrachloride	3.0	U	10	3.0	ug/L			10/19/23 18:52	10
Chlorobenzene	1.5	U	10	1.5	ug/L			10/19/23 18:52	10
Chloroethane	46	U	50	46	ug/L			10/19/23 18:52	10
Chloroform	2.7	U	10	2.7	ug/L			10/19/23 18:52	10
Chloromethane	5.4	U	10	5.4	ug/L			10/19/23 18:52	10
cis-1,2-Dichloroethene	2.5	U	10	2.5	ug/L			10/19/23 18:52	10
cis-1,3-Dichloropropene	2.6	U	10	2.6	ug/L			10/19/23 18:52	10
Cyclohexane	2.8	U	10	2.8	ug/L			10/19/23 18:52	10
Dibromochloromethane	3.9	U	10	3.9	ug/L			10/19/23 18:52	10
Dichlorodifluoromethane	3.6	U	10	3.6	ug/L			10/19/23 18:52	10
Ethylbenzene	2.0	U	10	2.0	ug/L			10/19/23 18:52	10
Isopropylbenzene	2.6	U	10	2.6	ug/L			10/19/23 18:52	10
m,p-Xylenes	4.9	U	10	4.9	ug/L			10/19/23 18:52	10
Methyl acetate	32	U	50	32	ug/L			10/19/23 18:52	10
Methyl tert-butyl ether	8.1	U	50	8.1	ug/L			10/19/23 18:52	10
Methylene Chloride	32	U	50	32	ug/L			10/19/23 18:52	10
o-Xylene	2.6	U	10	2.6	ug/L			10/19/23 18:52	10
Styrene	2.7	U	10	2.7	ug/L			10/19/23 18:52	10
Tetrachloroethene	3.5	U	10	3.5	ug/L			10/19/23 18:52	10
Toluene	2.5	U	10	2.5	ug/L			10/19/23 18:52	10
trans-1,2-Dichloroethene	3.4	U	10	3.4	ug/L			10/19/23 18:52	10
trans-1,3-Dichloropropene	2.3	U	10	2.3	ug/L			10/19/23 18:52	10
Trichloroethene	2.0	U	10	2.0	ug/L			10/19/23 18:52	10
Trichlorofluoromethane	3.3	U J3	10	3.3	ug/L			10/19/23 18:52	10
Vinyl chloride	**1500**		10	4.0	ug/L			10/19/23 18:52	10
Xylenes, Total	2.3	U	10	2.3	ug/L			10/19/23 18:52	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 124*		*10/19/23 18:52*	*10*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*10/19/23 18:52*	*10*

Client Sample ID: LC34-DPT0985-025.0-20231013
Lab Sample ID: 670-28660-5

Date Collected: 10/13/23 09:15
Matrix: Water
Date Received: 10/14/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*10/19/23 18:52*	*10*
Toluene-d8 (Surr)	*98*		*70 - 130*		*10/19/23 18:52*	*10*

Client Sample ID: LC34-DPT0985-034.0-20231013
Lab Sample ID: 670-28660-6

Date Collected: 10/13/23 09:35
Matrix: Water
Date Received: 10/14/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/19/23 14:44	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/19/23 14:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/19/23 14:44	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/19/23 14:44	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/19/23 14:44	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/19/23 14:44	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/19/23 14:44	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/19/23 14:44	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/19/23 14:44	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/19/23 14:44	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/19/23 14:44	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/19/23 14:44	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/19/23 14:44	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/19/23 14:44	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/19/23 14:44	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/19/23 14:44	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/19/23 14:44	1
Acetone	3.7	U	10	3.7	ug/L			10/19/23 14:44	1
Benzene	0.27	U	1.0	0.27	ug/L			10/19/23 14:44	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/19/23 14:44	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/19/23 14:44	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/19/23 14:44	1
Carbon disulfide	**1.0**	**I**	2.0	0.43	ug/L			10/19/23 14:44	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/19/23 14:44	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/19/23 14:44	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/19/23 14:44	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/19/23 14:44	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/19/23 14:44	1
cis-1,2-Dichloroethene	**16**		1.0	0.25	ug/L			10/19/23 14:44	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/19/23 14:44	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/19/23 14:44	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/19/23 14:44	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/19/23 14:44	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/19/23 14:44	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/19/23 14:44	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/19/23 14:44	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/19/23 14:44	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/19/23 14:44	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/19/23 14:44	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/19/23 14:44	1

Client Sample ID: LC34-DPT0985-034.0-20231013
Lab Sample ID: 670-28660-6

Date Collected: 10/13/23 09:35
Matrix: Water
Date Received: 10/14/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.27	U	1.0	0.27	ug/L			10/19/23 14:44	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/19/23 14:44	1
Toluene	0.25	U	1.0	0.25	ug/L			10/19/23 14:44	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/19/23 14:44	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/19/23 14:44	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/19/23 14:44	1
Trichlorofluoromethane	0.33	U J3	1.0	0.33	ug/L			10/19/23 14:44	1
Vinyl chloride	**79**		1.0	0.40	ug/L			10/19/23 14:44	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/19/23 14:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 124*		*10/19/23 14:44*	*1*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*10/19/23 14:44*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*10/19/23 14:44*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*10/19/23 14:44*	*1*

Client Sample ID: LC34-DPT0985-038.0-20231013
Lab Sample ID: 670-28660-7

Date Collected: 10/13/23 09:55
Matrix: Water
Date Received: 10/14/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/19/23 15:03	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/19/23 15:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/19/23 15:03	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/19/23 15:03	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/19/23 15:03	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/19/23 15:03	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/19/23 15:03	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/19/23 15:03	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/19/23 15:03	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/19/23 15:03	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/19/23 15:03	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/19/23 15:03	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/19/23 15:03	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/19/23 15:03	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/19/23 15:03	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/19/23 15:03	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/19/23 15:03	1
Acetone	3.7	U	10	3.7	ug/L			10/19/23 15:03	1
Benzene	0.27	U	1.0	0.27	ug/L			10/19/23 15:03	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/19/23 15:03	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/19/23 15:03	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/19/23 15:03	1
Carbon disulfide	**0.78**	**I**	2.0	0.43	ug/L			10/19/23 15:03	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/19/23 15:03	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/19/23 15:03	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/19/23 15:03	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/19/23 15:03	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/19/23 15:03	1

Client Sample ID: LC34-DPT0985-038.0-20231013
Lab Sample ID: 670-28660-7

Date Collected: 10/13/23 09:55
Matrix: Water
Date Received: 10/14/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/19/23 15:03	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/19/23 15:03	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/19/23 15:03	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/19/23 15:03	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/19/23 15:03	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/19/23 15:03	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/19/23 15:03	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/19/23 15:03	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/19/23 15:03	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/19/23 15:03	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/19/23 15:03	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/19/23 15:03	1
Styrene	0.27	U	1.0	0.27	ug/L			10/19/23 15:03	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/19/23 15:03	1
Toluene	0.25	U	1.0	0.25	ug/L			10/19/23 15:03	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/19/23 15:03	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/19/23 15:03	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/19/23 15:03	1
Trichlorofluoromethane	0.33	U J3	1.0	0.33	ug/L			10/19/23 15:03	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/19/23 15:03	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/19/23 15:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 124*		*10/19/23 15:03*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*10/19/23 15:03*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*10/19/23 15:03*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*10/19/23 15:03*	*1*

Client Sample ID: LC34-DPT0986-008.0-20231013
Lab Sample ID: 670-28660-8

Date Collected: 10/13/23 10:30
Matrix: Water
Date Received: 10/14/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/19/23 15:22	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/19/23 15:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/19/23 15:22	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/19/23 15:22	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/19/23 15:22	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/19/23 15:22	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/19/23 15:22	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/19/23 15:22	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/19/23 15:22	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/19/23 15:22	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/19/23 15:22	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/19/23 15:22	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/19/23 15:22	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/19/23 15:22	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/19/23 15:22	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/19/23 15:22	1

Client: Tetra Tech, Inc.
Job ID: 670-28660-1
Project/Site: NASA KSC LC34 - DPT

Client Sample ID: LC34-DPT0986-008.0-20231013
Lab Sample ID: 670-28660-8
Date Collected: 10/13/23 10:30
Matrix: Water
Date Received: 10/14/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/19/23 15:22	1
Acetone	3.7	U	10	3.7	ug/L			10/19/23 15:22	1
Benzene	0.27	U	1.0	0.27	ug/L			10/19/23 15:22	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/19/23 15:22	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/19/23 15:22	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/19/23 15:22	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/19/23 15:22	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/19/23 15:22	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/19/23 15:22	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/19/23 15:22	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/19/23 15:22	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/19/23 15:22	1
cis-1,2-Dichloroethene	**42**		1.0	0.25	ug/L			10/19/23 15:22	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/19/23 15:22	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/19/23 15:22	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/19/23 15:22	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/19/23 15:22	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/19/23 15:22	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/19/23 15:22	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/19/23 15:22	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/19/23 15:22	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/19/23 15:22	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/19/23 15:22	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/19/23 15:22	1
Styrene	0.27	U	1.0	0.27	ug/L			10/19/23 15:22	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/19/23 15:22	1
Toluene	0.25	U	1.0	0.25	ug/L			10/19/23 15:22	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/19/23 15:22	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/19/23 15:22	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/19/23 15:22	1
Trichlorofluoromethane	0.33	U J3	1.0	0.33	ug/L			10/19/23 15:22	1
Vinyl chloride	**54**		1.0	0.40	ug/L			10/19/23 15:22	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/19/23 15:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 124*		*10/19/23 15:22*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*10/19/23 15:22*	*1*
Dibromofluoromethane (Surr)	*105*		*70 - 130*		*10/19/23 15:22*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*10/19/23 15:22*	*1*

Client Sample ID: LC34-DPT0986-013.0-20231013
Lab Sample ID: 670-28660-9
Date Collected: 10/13/23 10:40
Matrix: Water
Date Received: 10/14/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/19/23 15:41	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/19/23 15:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/19/23 15:41	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/19/23 15:41	1

Client Sample ID: LC34-DPT0986-013.0-20231013
Lab Sample ID: 670-28660-9
Date Collected: 10/13/23 10:40
Matrix: Water
Date Received: 10/14/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/19/23 15:41	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/19/23 15:41	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/19/23 15:41	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/19/23 15:41	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/19/23 15:41	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/19/23 15:41	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/19/23 15:41	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/19/23 15:41	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/19/23 15:41	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/19/23 15:41	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/19/23 15:41	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/19/23 15:41	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/19/23 15:41	1
Acetone	3.7	U	10	3.7	ug/L			10/19/23 15:41	1
Benzene	0.27	U	1.0	0.27	ug/L			10/19/23 15:41	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/19/23 15:41	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/19/23 15:41	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/19/23 15:41	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/19/23 15:41	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/19/23 15:41	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/19/23 15:41	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/19/23 15:41	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/19/23 15:41	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/19/23 15:41	1
cis-1,2-Dichloroethene	**40**		1.0	0.25	ug/L			10/19/23 15:41	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/19/23 15:41	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/19/23 15:41	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/19/23 15:41	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/19/23 15:41	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/19/23 15:41	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/19/23 15:41	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/19/23 15:41	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/19/23 15:41	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/19/23 15:41	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/19/23 15:41	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/19/23 15:41	1
Styrene	0.27	U	1.0	0.27	ug/L			10/19/23 15:41	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/19/23 15:41	1
Toluene	0.25	U	1.0	0.25	ug/L			10/19/23 15:41	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/19/23 15:41	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/19/23 15:41	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/19/23 15:41	1
Trichlorofluoromethane	0.33	U J3	1.0	0.33	ug/L			10/19/23 15:41	1
Vinyl chloride	**48**		1.0	0.40	ug/L			10/19/23 15:41	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/19/23 15:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 124*		*10/19/23 15:41*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*10/19/23 15:41*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*10/19/23 15:41*	*1*

Client Sample ID: LC34-DPT0986-013.0-20231013
Lab Sample ID: 670-28660-9

Date Collected: 10/13/23 10:40
Matrix: Water
Date Received: 10/14/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		70 - 130		10/19/23 15:41	1

Client Sample ID: LC34-DPT0986-018.0-20231013
Lab Sample ID: 670-28660-10

Date Collected: 10/13/23 10:50
Matrix: Water
Date Received: 10/14/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.42	U	2.0	0.42	ug/L			10/19/23 19:35	2
1,1,2,2-Tetrachloroethane	0.80	U	2.0	0.80	ug/L			10/19/23 19:35	2
1,1,2-Trichloro-1,2,2-trifluoroethane	0.46	U	2.0	0.46	ug/L			10/19/23 19:35	2
1,1,2-Trichloroethane	0.64	U	2.0	0.64	ug/L			10/19/23 19:35	2
1,1-Dichloroethane	0.66	U	2.0	0.66	ug/L			10/19/23 19:35	2
1,1-Dichloroethene	0.66	U	2.0	0.66	ug/L			10/19/23 19:35	2
1,2,4-Trichlorobenzene	1.1	U	10	1.1	ug/L			10/19/23 19:35	2
1,2-Dibromo-3-Chloropropane	3.6	U	10	3.6	ug/L			10/19/23 19:35	2
1,2-Dibromoethane (EDB)	0.66	U	2.0	0.66	ug/L			10/19/23 19:35	2
1,2-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/19/23 19:35	2
1,2-Dichloroethane	0.50	U	2.0	0.50	ug/L			10/19/23 19:35	2
1,2-Dichloropropane	0.44	U	2.0	0.44	ug/L			10/19/23 19:35	2
1,3-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/19/23 19:35	2
1,4-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/19/23 19:35	2
2-Butanone (MEK)	13	U	20	13	ug/L			10/19/23 19:35	2
2-Hexanone	6.4	U	20	6.4	ug/L			10/19/23 19:35	2
4-Methyl-2-pentanone	5.4	U	20	5.4	ug/L			10/19/23 19:35	2
Acetone	7.4	U	20	7.4	ug/L			10/19/23 19:35	2
Benzene	0.54	U	2.0	0.54	ug/L			10/19/23 19:35	2
Bromodichloromethane	0.50	U	2.0	0.50	ug/L			10/19/23 19:35	2
Bromoform	1.2	U	2.0	1.2	ug/L			10/19/23 19:35	2
Bromomethane	7.4	U	10	7.4	ug/L			10/19/23 19:35	2
Carbon disulfide	0.86	U	4.0	0.86	ug/L			10/19/23 19:35	2
Carbon tetrachloride	0.60	U	2.0	0.60	ug/L			10/19/23 19:35	2
Chlorobenzene	0.30	U	2.0	0.30	ug/L			10/19/23 19:35	2
Chloroethane	9.2	U	10	9.2	ug/L			10/19/23 19:35	2
Chloroform	0.54	U	2.0	0.54	ug/L			10/19/23 19:35	2
Chloromethane	1.1	U	2.0	1.1	ug/L			10/19/23 19:35	2
cis-1,2-Dichloroethene	**200**		2.0	0.50	ug/L			10/19/23 19:35	2
cis-1,3-Dichloropropene	0.52	U	2.0	0.52	ug/L			10/19/23 19:35	2
Cyclohexane	0.56	U	2.0	0.56	ug/L			10/19/23 19:35	2
Dibromochloromethane	0.78	U	2.0	0.78	ug/L			10/19/23 19:35	2
Dichlorodifluoromethane	0.72	U	2.0	0.72	ug/L			10/19/23 19:35	2
Ethylbenzene	0.40	U	2.0	0.40	ug/L			10/19/23 19:35	2
Isopropylbenzene	0.52	U	2.0	0.52	ug/L			10/19/23 19:35	2
m,p-Xylenes	0.98	U	2.0	0.98	ug/L			10/19/23 19:35	2
Methyl acetate	6.4	U	10	6.4	ug/L			10/19/23 19:35	2
Methyl tert-butyl ether	1.6	U	10	1.6	ug/L			10/19/23 19:35	2
Methylene Chloride	6.4	U	10	6.4	ug/L			10/19/23 19:35	2
o-Xylene	0.52	U	2.0	0.52	ug/L			10/19/23 19:35	2
Styrene	0.54	U	2.0	0.54	ug/L			10/19/23 19:35	2

Client Sample ID: LC34-DPT0986-018.0-20231013
Lab Sample ID: 670-28660-10

Date Collected: 10/13/23 10:50
Matrix: Water
Date Received: 10/14/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	0.70	U	2.0	0.70	ug/L			10/19/23 19:35	2
Toluene	0.50	U	2.0	0.50	ug/L			10/19/23 19:35	2
trans-1,2-Dichloroethene	**2.0**		2.0	0.68	ug/L			10/19/23 19:35	2
trans-1,3-Dichloropropene	0.46	U	2.0	0.46	ug/L			10/19/23 19:35	2
Trichloroethene	0.40	U	2.0	0.40	ug/L			10/19/23 19:35	2
Trichlorofluoromethane	0.66	U J3	2.0	0.66	ug/L			10/19/23 19:35	2
Vinyl chloride	**110**		2.0	0.80	ug/L			10/19/23 19:35	2
Xylenes, Total	0.46	U	2.0	0.46	ug/L			10/19/23 19:35	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 124*		*10/19/23 19:35*	*2*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/19/23 19:35*	*2*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*10/19/23 19:35*	*2*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/19/23 19:35*	*2*

Client Sample ID: LC34-DPT0986-025.0-20231013
Lab Sample ID: 670-28660-11

Date Collected: 10/13/23 11:05
Matrix: Water
Date Received: 10/14/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/19/23 16:18	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/19/23 16:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/19/23 16:18	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/19/23 16:18	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/19/23 16:18	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/19/23 16:18	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/19/23 16:18	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/19/23 16:18	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/19/23 16:18	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/19/23 16:18	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/19/23 16:18	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/19/23 16:18	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/19/23 16:18	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/19/23 16:18	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/19/23 16:18	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/19/23 16:18	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/19/23 16:18	1
Acetone	3.7	U	10	3.7	ug/L			10/19/23 16:18	1
Benzene	0.27	U	1.0	0.27	ug/L			10/19/23 16:18	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/19/23 16:18	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/19/23 16:18	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/19/23 16:18	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/19/23 16:18	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/19/23 16:18	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/19/23 16:18	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/19/23 16:18	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/19/23 16:18	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/19/23 16:18	1
cis-1,2-Dichloroethene	**200**		1.0	0.25	ug/L			10/19/23 16:18	1

Client Sample ID: LC34-DPT0986-025.0-20231013
Lab Sample ID: 670-28660-11

Date Collected: 10/13/23 11:05
Matrix: Water
Date Received: 10/14/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/19/23 16:18	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/19/23 16:18	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/19/23 16:18	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/19/23 16:18	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/19/23 16:18	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/19/23 16:18	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/19/23 16:18	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/19/23 16:18	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/19/23 16:18	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/19/23 16:18	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/19/23 16:18	1
Styrene	0.27	U	1.0	0.27	ug/L			10/19/23 16:18	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/19/23 16:18	1
Toluene	0.25	U	1.0	0.25	ug/L			10/19/23 16:18	1
trans-1,2-Dichloroethene	**4.7**		1.0	0.34	ug/L			10/19/23 16:18	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/19/23 16:18	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/19/23 16:18	1
Trichlorofluoromethane	0.33	U J3	1.0	0.33	ug/L			10/19/23 16:18	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/19/23 16:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 124*		*10/19/23 16:18*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/19/23 16:18*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*10/19/23 16:18*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*10/19/23 16:18*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	**210**		2.0	0.80	ug/L			10/20/23 15:11	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*60 - 124*		*10/20/23 15:11*	*2*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*10/20/23 15:11*	*2*
Dibromofluoromethane (Surr)	*116*		*70 - 130*		*10/20/23 15:11*	*2*
Toluene-d8 (Surr)	*99*		*70 - 130*		*10/20/23 15:11*	*2*

Client Sample ID: LC34-DPT0986-034.0-20231013
Lab Sample ID: 670-28660-12

Date Collected: 10/13/23 11:25
Matrix: Water
Date Received: 10/14/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/19/23 16:37	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/19/23 16:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/19/23 16:37	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/19/23 16:37	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/19/23 16:37	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/19/23 16:37	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/19/23 16:37	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/19/23 16:37	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/19/23 16:37	1

Client Sample ID: LC34-DPT0986-034.0-20231013
Lab Sample ID: 670-28660-12
Date Collected: 10/13/23 11:25
Matrix: Water
Date Received: 10/14/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/19/23 16:37	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/19/23 16:37	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/19/23 16:37	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/19/23 16:37	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/19/23 16:37	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/19/23 16:37	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/19/23 16:37	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/19/23 16:37	1
Acetone	3.7	U	10	3.7	ug/L			10/19/23 16:37	1
Benzene	0.27	U	1.0	0.27	ug/L			10/19/23 16:37	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/19/23 16:37	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/19/23 16:37	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/19/23 16:37	1
Carbon disulfide	**1.2**	**I**	2.0	0.43	ug/L			10/19/23 16:37	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/19/23 16:37	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/19/23 16:37	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/19/23 16:37	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/19/23 16:37	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/19/23 16:37	1
cis-1,2-Dichloroethene	**21**		1.0	0.25	ug/L			10/19/23 16:37	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/19/23 16:37	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/19/23 16:37	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/19/23 16:37	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/19/23 16:37	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/19/23 16:37	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/19/23 16:37	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/19/23 16:37	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/19/23 16:37	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/19/23 16:37	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/19/23 16:37	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/19/23 16:37	1
Styrene	0.27	U	1.0	0.27	ug/L			10/19/23 16:37	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/19/23 16:37	1
Toluene	0.25	U	1.0	0.25	ug/L			10/19/23 16:37	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/19/23 16:37	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/19/23 16:37	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/19/23 16:37	1
Trichlorofluoromethane	0.33	U J3	1.0	0.33	ug/L			10/19/23 16:37	1
Vinyl chloride	**79**		1.0	0.40	ug/L			10/19/23 16:37	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/19/23 16:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 124*		*10/19/23 16:37*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/19/23 16:37*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*10/19/23 16:37*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*10/19/23 16:37*	*1*

Client: Tetra Tech, Inc.
Job ID: 670-28660-1
Project/Site: NASA KSC LC34 - DPT

Client Sample ID: LC34-DPT0986-038.0-20231013
Lab Sample ID: 670-28660-13
Date Collected: 10/13/23 11:45
Matrix: Water
Date Received: 10/14/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/19/23 16:56	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/19/23 16:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/19/23 16:56	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/19/23 16:56	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/19/23 16:56	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/19/23 16:56	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/19/23 16:56	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/19/23 16:56	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/19/23 16:56	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/19/23 16:56	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/19/23 16:56	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/19/23 16:56	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/19/23 16:56	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/19/23 16:56	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/19/23 16:56	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/19/23 16:56	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/19/23 16:56	1
Acetone	3.7	U	10	3.7	ug/L			10/19/23 16:56	1
Benzene	0.27	U	1.0	0.27	ug/L			10/19/23 16:56	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/19/23 16:56	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/19/23 16:56	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/19/23 16:56	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/19/23 16:56	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/19/23 16:56	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/19/23 16:56	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/19/23 16:56	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/19/23 16:56	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/19/23 16:56	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/19/23 16:56	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/19/23 16:56	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/19/23 16:56	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/19/23 16:56	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/19/23 16:56	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/19/23 16:56	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/19/23 16:56	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/19/23 16:56	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/19/23 16:56	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/19/23 16:56	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/19/23 16:56	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/19/23 16:56	1
Styrene	0.27	U	1.0	0.27	ug/L			10/19/23 16:56	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/19/23 16:56	1
Toluene	0.25	U	1.0	0.25	ug/L			10/19/23 16:56	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/19/23 16:56	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/19/23 16:56	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/19/23 16:56	1
Trichlorofluoromethane	0.33	U J3	1.0	0.33	ug/L			10/19/23 16:56	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/19/23 16:56	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/19/23 16:56	1

Client Sample ID: LC34-DPT0986-038.0-20231013
Lab Sample ID: 670-28660-13

Date Collected: 10/13/23 11:45
Matrix: Water
Date Received: 10/14/23 08:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 124*		*10/19/23 16:56*	*1*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*10/19/23 16:56*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*10/19/23 16:56*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*10/19/23 16:56*	*1*

Client Sample ID: LC34-DPT0987-008.0-20231013
Lab Sample ID: 670-28660-14

Date Collected: 10/13/23 12:20
Matrix: Water
Date Received: 10/14/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/19/23 17:15	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/19/23 17:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/19/23 17:15	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/19/23 17:15	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/19/23 17:15	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/19/23 17:15	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/19/23 17:15	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/19/23 17:15	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/19/23 17:15	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/19/23 17:15	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/19/23 17:15	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/19/23 17:15	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/19/23 17:15	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/19/23 17:15	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/19/23 17:15	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/19/23 17:15	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/19/23 17:15	1
Acetone	3.7	U	10	3.7	ug/L			10/19/23 17:15	1
Benzene	0.27	U	1.0	0.27	ug/L			10/19/23 17:15	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/19/23 17:15	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/19/23 17:15	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/19/23 17:15	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/19/23 17:15	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/19/23 17:15	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/19/23 17:15	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/19/23 17:15	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/19/23 17:15	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/19/23 17:15	1
cis-1,2-Dichloroethene	**43**		1.0	0.25	ug/L			10/19/23 17:15	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/19/23 17:15	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/19/23 17:15	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/19/23 17:15	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/19/23 17:15	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/19/23 17:15	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/19/23 17:15	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/19/23 17:15	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/19/23 17:15	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/19/23 17:15	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/19/23 17:15	1

Client Sample ID: LC34-DPT0987-008.0-20231013
Lab Sample ID: 670-28660-14

Date Collected: 10/13/23 12:20
Matrix: Water
Date Received: 10/14/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	0.26	U	1.0	0.26	ug/L			10/19/23 17:15	1
Styrene	0.27	U	1.0	0.27	ug/L			10/19/23 17:15	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/19/23 17:15	1
Toluene	0.25	U	1.0	0.25	ug/L			10/19/23 17:15	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/19/23 17:15	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/19/23 17:15	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/19/23 17:15	1
Trichlorofluoromethane	0.33	U J3	1.0	0.33	ug/L			10/19/23 17:15	1
Vinyl chloride	**57**		1.0	0.40	ug/L			10/19/23 17:15	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/19/23 17:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 124*		*10/19/23 17:15*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*10/19/23 17:15*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*10/19/23 17:15*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*10/19/23 17:15*	*1*

Client Sample ID: LC34-DPT0987-013.0-20231013
Lab Sample ID: 670-28660-15

Date Collected: 10/13/23 12:35
Matrix: Water
Date Received: 10/14/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/19/23 17:34	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/19/23 17:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/19/23 17:34	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/19/23 17:34	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/19/23 17:34	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/19/23 17:34	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/19/23 17:34	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/19/23 17:34	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/19/23 17:34	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/19/23 17:34	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/19/23 17:34	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/19/23 17:34	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/19/23 17:34	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/19/23 17:34	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/19/23 17:34	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/19/23 17:34	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/19/23 17:34	1
Acetone	3.7	U	10	3.7	ug/L			10/19/23 17:34	1
Benzene	0.27	U	1.0	0.27	ug/L			10/19/23 17:34	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/19/23 17:34	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/19/23 17:34	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/19/23 17:34	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/19/23 17:34	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/19/23 17:34	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/19/23 17:34	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/19/23 17:34	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/19/23 17:34	1

Client Sample ID: LC34-DPT0987-013.0-20231013
Lab Sample ID: 670-28660-15

Date Collected: 10/13/23 12:35
Matrix: Water
Date Received: 10/14/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	0.54	U	1.0	0.54	ug/L			10/19/23 17:34	1
cis-1,2-Dichloroethene	**59**		1.0	0.25	ug/L			10/19/23 17:34	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/19/23 17:34	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/19/23 17:34	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/19/23 17:34	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/19/23 17:34	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/19/23 17:34	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/19/23 17:34	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/19/23 17:34	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/19/23 17:34	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/19/23 17:34	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/19/23 17:34	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/19/23 17:34	1
Styrene	0.27	U	1.0	0.27	ug/L			10/19/23 17:34	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/19/23 17:34	1
Toluene	0.25	U	1.0	0.25	ug/L			10/19/23 17:34	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/19/23 17:34	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/19/23 17:34	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/19/23 17:34	1
Trichlorofluoromethane	0.33	U J3	1.0	0.33	ug/L			10/19/23 17:34	1
Vinyl chloride	**75**		1.0	0.40	ug/L			10/19/23 17:34	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/19/23 17:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 124*		*10/19/23 17:34*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/19/23 17:34*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*10/19/23 17:34*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*10/19/23 17:34*	*1*

Client Sample ID: LC34-DPT0987-018.0-20231013
Lab Sample ID: 670-28660-16

Date Collected: 10/13/23 12:55
Matrix: Water
Date Received: 10/14/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/19/23 17:53	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/19/23 17:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/19/23 17:53	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/19/23 17:53	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/19/23 17:53	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/19/23 17:53	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/19/23 17:53	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/19/23 17:53	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/19/23 17:53	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/19/23 17:53	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/19/23 17:53	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/19/23 17:53	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/19/23 17:53	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/19/23 17:53	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/19/23 17:53	1

Client Sample ID: LC34-DPT0987-018.0-20231013
Lab Sample ID: 670-28660-16

Date Collected: 10/13/23 12:55
Matrix: Water
Date Received: 10/14/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	3.2	U	10	3.2	ug/L			10/19/23 17:53	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/19/23 17:53	1
Acetone	3.7	U	10	3.7	ug/L			10/19/23 17:53	1
Benzene	0.27	U	1.0	0.27	ug/L			10/19/23 17:53	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/19/23 17:53	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/19/23 17:53	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/19/23 17:53	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/19/23 17:53	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/19/23 17:53	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/19/23 17:53	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/19/23 17:53	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/19/23 17:53	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/19/23 17:53	1
cis-1,2-Dichloroethene	**120**		1.0	0.25	ug/L			10/19/23 17:53	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/19/23 17:53	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/19/23 17:53	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/19/23 17:53	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/19/23 17:53	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/19/23 17:53	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/19/23 17:53	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/19/23 17:53	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/19/23 17:53	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/19/23 17:53	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/19/23 17:53	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/19/23 17:53	1
Styrene	0.27	U	1.0	0.27	ug/L			10/19/23 17:53	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/19/23 17:53	1
Toluene	0.25	U	1.0	0.25	ug/L			10/19/23 17:53	1
trans-1,2-Dichloroethene	**0.49**	**I**	1.0	0.34	ug/L			10/19/23 17:53	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/19/23 17:53	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/19/23 17:53	1
Trichlorofluoromethane	0.33	U J3	1.0	0.33	ug/L			10/19/23 17:53	1
Vinyl chloride	**120**		1.0	0.40	ug/L			10/19/23 17:53	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/19/23 17:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 124*		*10/19/23 17:53*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*10/19/23 17:53*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*10/19/23 17:53*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/19/23 17:53*	*1*

Client Sample ID: LC34-DPT0987-025.0-20231013
Lab Sample ID: 670-28660-17

Date Collected: 10/13/23 13:10
Matrix: Water
Date Received: 10/14/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/19/23 18:12	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/19/23 18:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/19/23 18:12	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 - DPT

Job ID: 670-28660-1

Client Sample ID: LC34-DPT0987-025.0-20231013
Date Collected: 10/13/23 13:10
Date Received: 10/14/23 08:00

Lab Sample ID: 670-28660-17
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/19/23 18:12	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/19/23 18:12	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/19/23 18:12	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/19/23 18:12	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/19/23 18:12	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/19/23 18:12	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/19/23 18:12	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/19/23 18:12	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/19/23 18:12	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/19/23 18:12	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/19/23 18:12	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/19/23 18:12	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/19/23 18:12	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/19/23 18:12	1
Acetone	3.7	U	10	3.7	ug/L			10/19/23 18:12	1
Benzene	0.27	U	1.0	0.27	ug/L			10/19/23 18:12	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/19/23 18:12	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/19/23 18:12	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/19/23 18:12	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/19/23 18:12	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/19/23 18:12	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/19/23 18:12	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/19/23 18:12	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/19/23 18:12	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/19/23 18:12	1
cis-1,2-Dichloroethene	**56**		1.0	0.25	ug/L			10/19/23 18:12	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/19/23 18:12	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/19/23 18:12	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/19/23 18:12	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/19/23 18:12	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/19/23 18:12	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/19/23 18:12	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/19/23 18:12	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/19/23 18:12	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/19/23 18:12	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/19/23 18:12	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/19/23 18:12	1
Styrene	0.27	U	1.0	0.27	ug/L			10/19/23 18:12	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/19/23 18:12	1
Toluene	0.25	U	1.0	0.25	ug/L			10/19/23 18:12	1
trans-1,2-Dichloroethene	**1.3**		1.0	0.34	ug/L			10/19/23 18:12	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/19/23 18:12	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/19/23 18:12	1
Trichlorofluoromethane	0.33	U J3	1.0	0.33	ug/L			10/19/23 18:12	1
Vinyl chloride	**110**		1.0	0.40	ug/L			10/19/23 18:12	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/19/23 18:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 124*		*10/19/23 18:12*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/19/23 18:12*	*1*

Client Sample ID: LC34-DPT0987-025.0-20231013
Lab Sample ID: 670-28660-17
Date Collected: 10/13/23 13:10
Matrix: Water
Date Received: 10/14/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*10/19/23 18:12*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*10/19/23 18:12*	*1*

Client Sample ID: LC34-DPT0987-034.0-20231013
Lab Sample ID: 670-28660-18
Date Collected: 10/13/23 13:30
Matrix: Water
Date Received: 10/14/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.42	U	2.0	0.42	ug/L			10/19/23 19:56	2
1,1,2,2-Tetrachloroethane	0.80	U	2.0	0.80	ug/L			10/19/23 19:56	2
1,1,2-Trichloro-1,2,2-trifluoroethane	0.46	U	2.0	0.46	ug/L			10/19/23 19:56	2
1,1,2-Trichloroethane	0.64	U	2.0	0.64	ug/L			10/19/23 19:56	2
1,1-Dichloroethane	0.66	U	2.0	0.66	ug/L			10/19/23 19:56	2
1,1-Dichloroethene	0.66	U	2.0	0.66	ug/L			10/19/23 19:56	2
1,2,4-Trichlorobenzene	1.1	U	10	1.1	ug/L			10/19/23 19:56	2
1,2-Dibromo-3-Chloropropane	3.6	U	10	3.6	ug/L			10/19/23 19:56	2
1,2-Dibromoethane (EDB)	0.66	U	2.0	0.66	ug/L			10/19/23 19:56	2
1,2-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/19/23 19:56	2
1,2-Dichloroethane	0.50	U	2.0	0.50	ug/L			10/19/23 19:56	2
1,2-Dichloropropane	0.44	U	2.0	0.44	ug/L			10/19/23 19:56	2
1,3-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/19/23 19:56	2
1,4-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/19/23 19:56	2
2-Butanone (MEK)	13	U	20	13	ug/L			10/19/23 19:56	2
2-Hexanone	6.4	U	20	6.4	ug/L			10/19/23 19:56	2
4-Methyl-2-pentanone	5.4	U	20	5.4	ug/L			10/19/23 19:56	2
Acetone	7.4	U	20	7.4	ug/L			10/19/23 19:56	2
Benzene	0.54	U	2.0	0.54	ug/L			10/19/23 19:56	2
Bromodichloromethane	0.50	U	2.0	0.50	ug/L			10/19/23 19:56	2
Bromoform	1.2	U	2.0	1.2	ug/L			10/19/23 19:56	2
Bromomethane	7.4	U	10	7.4	ug/L			10/19/23 19:56	2
Carbon disulfide	0.86	U	4.0	0.86	ug/L			10/19/23 19:56	2
Carbon tetrachloride	0.60	U	2.0	0.60	ug/L			10/19/23 19:56	2
Chlorobenzene	0.30	U	2.0	0.30	ug/L			10/19/23 19:56	2
Chloroethane	9.2	U	10	9.2	ug/L			10/19/23 19:56	2
Chloroform	0.54	U	2.0	0.54	ug/L			10/19/23 19:56	2
Chloromethane	1.1	U	2.0	1.1	ug/L			10/19/23 19:56	2
cis-1,2-Dichloroethene	**230**		2.0	0.50	ug/L			10/19/23 19:56	2
cis-1,3-Dichloropropene	0.52	U	2.0	0.52	ug/L			10/19/23 19:56	2
Cyclohexane	0.56	U	2.0	0.56	ug/L			10/19/23 19:56	2
Dibromochloromethane	0.78	U	2.0	0.78	ug/L			10/19/23 19:56	2
Dichlorodifluoromethane	0.72	U	2.0	0.72	ug/L			10/19/23 19:56	2
Ethylbenzene	0.40	U	2.0	0.40	ug/L			10/19/23 19:56	2
Isopropylbenzene	0.52	U	2.0	0.52	ug/L			10/19/23 19:56	2
m,p-Xylenes	0.98	U	2.0	0.98	ug/L			10/19/23 19:56	2
Methyl acetate	6.4	U	10	6.4	ug/L			10/19/23 19:56	2
Methyl tert-butyl ether	1.6	U	10	1.6	ug/L			10/19/23 19:56	2
Methylene Chloride	6.4	U	10	6.4	ug/L			10/19/23 19:56	2
o-Xylene	0.52	U	2.0	0.52	ug/L			10/19/23 19:56	2

Client Sample ID: LC34-DPT0987-034.0-20231013
Lab Sample ID: 670-28660-18

Date Collected: 10/13/23 13:30
Matrix: Water
Date Received: 10/14/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.54	U	2.0	0.54	ug/L			10/19/23 19:56	2
Tetrachloroethene	0.70	U	2.0	0.70	ug/L			10/19/23 19:56	2
Toluene	0.50	U	2.0	0.50	ug/L			10/19/23 19:56	2
trans-1,2-Dichloroethene	**1.1**	**I**	2.0	0.68	ug/L			10/19/23 19:56	2
trans-1,3-Dichloropropene	0.46	U	2.0	0.46	ug/L			10/19/23 19:56	2
Trichloroethene	0.40	U	2.0	0.40	ug/L			10/19/23 19:56	2
Trichlorofluoromethane	0.66	U J3	2.0	0.66	ug/L			10/19/23 19:56	2
Vinyl chloride	**72**		2.0	0.80	ug/L			10/19/23 19:56	2
Xylenes, Total	0.46	U	2.0	0.46	ug/L			10/19/23 19:56	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 124*		*10/19/23 19:56*	*2*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*10/19/23 19:56*	*2*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*10/19/23 19:56*	*2*
Toluene-d8 (Surr)	*103*		*70 - 130*		*10/19/23 19:56*	*2*

Client Sample ID: LC34-DPT0987-038.0-20231013
Lab Sample ID: 670-28660-19

Date Collected: 10/13/23 13:50
Matrix: Water
Date Received: 10/14/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/19/23 18:31	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/19/23 18:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/19/23 18:31	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/19/23 18:31	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/19/23 18:31	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/19/23 18:31	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/19/23 18:31	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/19/23 18:31	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/19/23 18:31	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/19/23 18:31	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/19/23 18:31	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/19/23 18:31	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/19/23 18:31	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/19/23 18:31	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/19/23 18:31	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/19/23 18:31	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/19/23 18:31	1
Acetone	3.7	U	10	3.7	ug/L			10/19/23 18:31	1
Benzene	0.27	U	1.0	0.27	ug/L			10/19/23 18:31	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/19/23 18:31	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/19/23 18:31	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/19/23 18:31	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/19/23 18:31	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/19/23 18:31	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/19/23 18:31	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/19/23 18:31	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/19/23 18:31	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/19/23 18:31	1

Client: Tetra Tech, Inc.
Job ID: 670-28660-1
Project/Site: NASA KSC LC34 - DPT

Client Sample ID: LC34-DPT0987-038.0-20231013
Lab Sample ID: 670-28660-19
Date Collected: 10/13/23 13:50
Matrix: Water
Date Received: 10/14/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**2.8**		1.0	0.25	ug/L			10/19/23 18:31	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/19/23 18:31	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/19/23 18:31	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/19/23 18:31	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/19/23 18:31	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/19/23 18:31	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/19/23 18:31	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/19/23 18:31	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/19/23 18:31	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/19/23 18:31	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/19/23 18:31	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/19/23 18:31	1
Styrene	0.27	U	1.0	0.27	ug/L			10/19/23 18:31	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/19/23 18:31	1
Toluene	0.25	U	1.0	0.25	ug/L			10/19/23 18:31	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/19/23 18:31	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/19/23 18:31	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/19/23 18:31	1
Trichlorofluoromethane	0.33	U J3	1.0	0.33	ug/L			10/19/23 18:31	1
Vinyl chloride	**0.52**	**I**	1.0	0.40	ug/L			10/19/23 18:31	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/19/23 18:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 124*		*10/19/23 18:31*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/19/23 18:31*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*10/19/23 18:31*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*10/19/23 18:31*	*1*

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 - DPT

Job ID: 670-28660-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(60-124)	(70-130)	(70-130)	(70-130)
670-28660-1	LC34-DPT0984-038.0-20231013	97	101	101	99
670-28660-2	LC34-DPT0985-008.0-2023101 3	97	103	99	102
670-28660-3	LC34-DPT0985-013.0-2023101 3	99	99	102	97
670-28660-4	LC34-DPT0985-018.0-2023101 3	100	100	104	100
670-28660-5	LC34-DPT0985-025.0-2023101 3	99	100	104	98
670-28660-6	LC34-DPT0985-034.0-2023101 3	98	103	102	98
670-28660-7	LC34-DPT0985-038.0-2023101 3	98	102	104	99
670-28660-8	LC34-DPT0986-008.0-2023101 3	100	100	105	98
670-28660-9	LC34-DPT0986-013.0-2023101 3	98	100	102	98
670-28660-10	LC34-DPT0986-018.0-2023101 3	99	101	101	101
670-28660-11	LC34-DPT0986-025.0-2023101 3	99	101	102	98
670-28660-11 - DL	LC34-DPT0986-025.0-2023101 3	111	100	116	99
670-28660-12	LC34-DPT0986-034.0-2023101 3	98	101	103	99
670-28660-13	LC34-DPT0986-038.0-2023101 3	97	105	101	98
670-28660-14	LC34-DPT0987-008.0-2023101 3	97	100	101	102
670-28660-15	LC34-DPT0987-013.0-2023101 3	98	101	102	99
670-28660-16	LC34-DPT0987-018.0-2023101 3	99	99	102	100
670-28660-17	LC34-DPT0987-025.0-2023101 3	98	101	103	99
670-28660-18	LC34-DPT0987-034.0-2023101 3	97	102	100	103
670-28660-19	LC34-DPT0987-038.0-2023101 3	98	101	102	98
LCS 680-803455/4	Lab Control Sample	109	100	103	99
LCS 680-803714/4	Lab Control Sample	106	101	102	96
LCSD 680-803455/5	Lab Control Sample Dup	100	100	101	97
LCSD 680-803714/5	Lab Control Sample Dup	107	101	107	101
MB 680-803455/8	Method Blank	98	101	103	100
MB 680-803714/8	Method Blank	102	105	111	108

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 680-803455/8
Matrix: Water
Analysis Batch: 803455

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/19/23 12:20	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/19/23 12:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/19/23 12:20	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/19/23 12:20	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/19/23 12:20	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/19/23 12:20	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/19/23 12:20	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/19/23 12:20	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/19/23 12:20	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/19/23 12:20	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/19/23 12:20	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/19/23 12:20	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/19/23 12:20	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/19/23 12:20	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/19/23 12:20	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/19/23 12:20	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/19/23 12:20	1
Acetone	3.7	U	10	3.7	ug/L			10/19/23 12:20	1
Benzene	0.27	U	1.0	0.27	ug/L			10/19/23 12:20	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/19/23 12:20	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/19/23 12:20	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/19/23 12:20	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/19/23 12:20	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/19/23 12:20	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/19/23 12:20	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/19/23 12:20	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/19/23 12:20	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/19/23 12:20	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/19/23 12:20	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/19/23 12:20	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/19/23 12:20	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/19/23 12:20	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/19/23 12:20	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/19/23 12:20	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/19/23 12:20	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/19/23 12:20	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/19/23 12:20	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/19/23 12:20	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/19/23 12:20	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/19/23 12:20	1
Styrene	0.27	U	1.0	0.27	ug/L			10/19/23 12:20	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/19/23 12:20	1
Toluene	0.25	U	1.0	0.25	ug/L			10/19/23 12:20	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/19/23 12:20	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/19/23 12:20	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/19/23 12:20	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/19/23 12:20	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/19/23 12:20	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-803455/8
Matrix: Water
Analysis Batch: 803455

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/19/23 12:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 124*		*10/19/23 12:20*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/19/23 12:20*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*10/19/23 12:20*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/19/23 12:20*	*1*

Lab Sample ID: LCS 680-803455/4
Matrix: Water
Analysis Batch: 803455

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	51.0		ug/L		102	70 - 130
1,1,2,2-Tetrachloroethane	50.0	50.3		ug/L		101	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	51.2		ug/L		102	63 - 141
1,1,2-Trichloroethane	50.0	53.0		ug/L		106	70 - 130
1,1-Dichloroethane	50.0	50.8		ug/L		102	70 - 130
1,1-Dichloroethene	50.0	52.2		ug/L		104	70 - 130
1,2,4-Trichlorobenzene	50.0	45.7		ug/L		91	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	41.0		ug/L		82	70 - 130
1,2-Dibromoethane (EDB)	50.0	54.1		ug/L		108	70 - 130
1,2-Dichlorobenzene	50.0	49.4		ug/L		99	70 - 130
1,2-Dichloroethane	50.0	51.2		ug/L		102	70 - 130
1,2-Dichloropropane	50.0	50.4		ug/L		101	70 - 130
1,3-Dichlorobenzene	50.0	49.1		ug/L		98	70 - 130
1,4-Dichlorobenzene	50.0	49.7		ug/L		99	70 - 130
2-Butanone (MEK)	250	219		ug/L		88	69 - 120
2-Hexanone	250	272		ug/L		109	70 - 130
4-Methyl-2-pentanone	250	239		ug/L		95	68 - 120
Acetone	250	238		ug/L		95	67 - 120
Benzene	50.0	50.8		ug/L		102	70 - 130
Bromodichloromethane	50.0	52.0		ug/L		104	70 - 130
Bromoform	50.0	43.6		ug/L		87	69 - 129
Bromomethane	50.0	57.7		ug/L		115	28 - 192
Carbon disulfide	50.0	49.8		ug/L		100	70 - 130
Carbon tetrachloride	50.0	48.5		ug/L		97	70 - 130
Chlorobenzene	50.0	50.5		ug/L		101	70 - 130
Chloroethane	50.0	51.5		ug/L		103	31 - 213
Chloroform	50.0	50.9		ug/L		102	70 - 130
Chloromethane	50.0	41.6		ug/L		83	59 - 127
cis-1,2-Dichloroethene	50.0	51.1		ug/L		102	70 - 130
cis-1,3-Dichloropropene	50.0	53.6		ug/L		107	70 - 130
Cyclohexane	50.0	50.4		ug/L		101	23 - 175
Dibromochloromethane	50.0	46.9		ug/L		94	70 - 130
Dichlorodifluoromethane	50.0	47.2		ug/L		94	70 - 130
Ethylbenzene	50.0	50.3		ug/L		101	70 - 130
Isopropylbenzene	50.0	50.7		ug/L		101	70 - 130

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-803455/4
Matrix: Water
Analysis Batch: 803455

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
m,p-Xylenes			50.0	52.1		ug/L		104	70 - 130		
Methyl acetate			100	99.1		ug/L		99	67 - 120		
Methyl tert-butyl ether			50.0	46.8		ug/L		94	70 - 130		
Methylene Chloride			50.0	49.9		ug/L		100	70 - 130		
o-Xylene			50.0	50.9		ug/L		102	70 - 130		
Styrene			50.0	51.8		ug/L		104	70 - 130		
Tetrachloroethene			50.0	51.2		ug/L		102	70 - 130		
Toluene			50.0	50.3		ug/L		101	70 - 130		
trans-1,2-Dichloroethene			50.0	51.6		ug/L		103	70 - 130		
trans-1,3-Dichloropropene			50.0	48.5		ug/L		97	70 - 130		
Trichloroethene			50.0	50.8		ug/L		102	70 - 130		
Trichlorofluoromethane			50.0	77.7	J3	ug/L		155	63 - 142		
Vinyl chloride			50.0	44.8		ug/L		90	66 - 129		
Xylenes, Total			100	103		ug/L		103	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*109*		*60 - 124*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
Dibromofluoromethane (Surr)	*103*		*70 - 130*
Toluene-d8 (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 680-803455/5
Matrix: Water
Analysis Batch: 803455

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane			50.0	51.1		ug/L		102	70 - 130	0	30
1,1,2,2-Tetrachloroethane			50.0	49.8		ug/L		100	70 - 130	1	30
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	52.2		ug/L		104	63 - 141	2	30
1,1,2-Trichloroethane			50.0	51.2		ug/L		102	70 - 130	4	30
1,1-Dichloroethane			50.0	50.6		ug/L		101	70 - 130	0	30
1,1-Dichloroethene			50.0	53.3		ug/L		107	70 - 130	2	20
1,2,4-Trichlorobenzene			50.0	46.1		ug/L		92	70 - 130	1	30
1,2-Dibromo-3-Chloropropane			50.0	41.8		ug/L		84	70 - 130	2	30
1,2-Dibromoethane (EDB)			50.0	51.7		ug/L		103	70 - 130	5	30
1,2-Dichlorobenzene			50.0	48.7		ug/L		97	70 - 130	1	30
1,2-Dichloroethane			50.0	50.7		ug/L		101	70 - 130	1	50
1,2-Dichloropropane			50.0	49.1		ug/L		98	70 - 130	3	20
1,3-Dichlorobenzene			50.0	49.5		ug/L		99	70 - 130	1	30
1,4-Dichlorobenzene			50.0	50.0		ug/L		100	70 - 130	1	30
2-Butanone (MEK)			250	209		ug/L		83	69 - 120	5	30
2-Hexanone			250	261		ug/L		104	70 - 130	4	20
4-Methyl-2-pentanone			250	228		ug/L		91	68 - 120	5	30
Acetone			250	231		ug/L		92	67 - 120	3	30
Benzene			50.0	50.2		ug/L		100	70 - 130	1	30
Bromodichloromethane			50.0	51.1		ug/L		102	70 - 130	2	30
Bromoform			50.0	43.6		ug/L		87	69 - 129	0	30
Bromomethane			50.0	58.5		ug/L		117	28 - 192	1	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-803455/5
Matrix: Water
Analysis Batch: 803455

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon disulfide	50.0	51.0		ug/L		102	70 - 130	3	30
Carbon tetrachloride	50.0	48.5		ug/L		97	70 - 130	0	30
Chlorobenzene	50.0	51.1		ug/L		102	70 - 130	1	30
Chloroethane	50.0	49.4		ug/L		99	31 - 213	4	30
Chloroform	50.0	50.8		ug/L		102	70 - 130	0	30
Chloromethane	50.0	42.0		ug/L		84	59 - 127	1	30
cis-1,2-Dichloroethene	50.0	50.8		ug/L		102	70 - 130	1	30
cis-1,3-Dichloropropene	50.0	51.7		ug/L		103	70 - 130	4	20
Cyclohexane	50.0	50.4		ug/L		101	23 - 175	0	30
Dibromochloromethane	50.0	45.9		ug/L		92	70 - 130	2	30
Dichlorodifluoromethane	50.0	48.7		ug/L		97	70 - 130	3	40
Ethylbenzene	50.0	51.2		ug/L		102	70 - 130	2	20
Isopropylbenzene	50.0	51.3		ug/L		103	70 - 130	1	30
m,p-Xylenes	50.0	52.3		ug/L		105	70 - 130	0	30
Methyl acetate	100	97.5		ug/L		98	67 - 120	2	30
Methyl tert-butyl ether	50.0	45.7		ug/L		91	70 - 130	2	30
Methylene Chloride	50.0	49.9		ug/L		100	70 - 130	0	30
o-Xylene	50.0	52.2		ug/L		104	70 - 130	3	30
Styrene	50.0	52.4		ug/L		105	70 - 130	1	30
Tetrachloroethene	50.0	50.5		ug/L		101	70 - 130	1	30
Toluene	50.0	49.8		ug/L		100	70 - 130	1	30
trans-1,2-Dichloroethene	50.0	51.4		ug/L		103	70 - 130	0	30
trans-1,3-Dichloropropene	50.0	47.6		ug/L		95	70 - 130	2	30
Trichloroethene	50.0	49.8		ug/L		100	70 - 130	2	30
Trichlorofluoromethane	50.0	78.3	J3	ug/L		157	63 - 142	1	30
Vinyl chloride	50.0	45.3		ug/L		91	66 - 129	1	30
Xylenes, Total	100	105		ug/L		105	70 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 124*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*97*		*70 - 130*

Lab Sample ID: MB 680-803714/8
Matrix: Water
Analysis Batch: 803714

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/20/23 12:50	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/20/23 12:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/20/23 12:50	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/20/23 12:50	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/20/23 12:50	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/20/23 12:50	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/20/23 12:50	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/20/23 12:50	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/20/23 12:50	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-803714/8
Matrix: Water
Analysis Batch: 803714

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/20/23 12:50	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/20/23 12:50	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/20/23 12:50	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/20/23 12:50	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/20/23 12:50	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/20/23 12:50	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/20/23 12:50	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/20/23 12:50	1
Acetone	3.7	U	10	3.7	ug/L			10/20/23 12:50	1
Benzene	0.27	U	1.0	0.27	ug/L			10/20/23 12:50	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/20/23 12:50	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/20/23 12:50	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/20/23 12:50	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/20/23 12:50	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/20/23 12:50	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/20/23 12:50	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/20/23 12:50	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/20/23 12:50	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/20/23 12:50	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/20/23 12:50	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/20/23 12:50	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/20/23 12:50	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/20/23 12:50	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/20/23 12:50	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/20/23 12:50	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/20/23 12:50	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/20/23 12:50	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/20/23 12:50	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/20/23 12:50	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/20/23 12:50	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/20/23 12:50	1
Styrene	0.27	U	1.0	0.27	ug/L			10/20/23 12:50	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/20/23 12:50	1
Toluene	0.25	U	1.0	0.25	ug/L			10/20/23 12:50	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/20/23 12:50	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/20/23 12:50	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/20/23 12:50	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/20/23 12:50	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/20/23 12:50	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/20/23 12:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 124*		*10/20/23 12:50*	*1*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*10/20/23 12:50*	*1*
Dibromofluoromethane (Surr)	*111*		*70 - 130*		*10/20/23 12:50*	*1*
Toluene-d8 (Surr)	*108*		*70 - 130*		*10/20/23 12:50*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-803714/4
Matrix: Water
Analysis Batch: 803714

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	54.9		ug/L		110	70 - 130
1,1,2,2-Tetrachloroethane	50.0	58.4		ug/L		117	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	45.5		ug/L		91	63 - 141
1,1,2-Trichloroethane	50.0	56.9		ug/L		114	70 - 130
1,1-Dichloroethane	50.0	51.7		ug/L		103	70 - 130
1,1-Dichloroethene	50.0	48.1		ug/L		96	70 - 130
1,2,4-Trichlorobenzene	50.0	54.7		ug/L		109	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	59.4		ug/L		119	70 - 130
1,2-Dibromoethane (EDB)	50.0	53.3		ug/L		107	70 - 130
1,2-Dichlorobenzene	50.0	55.0		ug/L		110	70 - 130
1,2-Dichloroethane	50.0	53.3		ug/L		107	70 - 130
1,2-Dichloropropane	50.0	53.2		ug/L		106	70 - 130
1,3-Dichlorobenzene	50.0	51.8		ug/L		104	70 - 130
1,4-Dichlorobenzene	50.0	50.4		ug/L		101	70 - 130
2-Butanone (MEK)	250	244		ug/L		98	69 - 120
2-Hexanone	250	266		ug/L		106	70 - 130
4-Methyl-2-pentanone	250	273		ug/L		109	68 - 120
Acetone	250	252		ug/L		101	67 - 120
Benzene	50.0	50.3		ug/L		101	70 - 130
Bromodichloromethane	50.0	51.5		ug/L		103	70 - 130
Bromoform	50.0	52.3		ug/L		105	69 - 129
Bromomethane	50.0	48.7		ug/L		97	28 - 192
Carbon disulfide	50.0	46.3		ug/L		93	70 - 130
Carbon tetrachloride	50.0	57.1		ug/L		114	70 - 130
Chlorobenzene	50.0	49.7		ug/L		99	70 - 130
Chloroethane	50.0	51.7		ug/L		103	31 - 213
Chloroform	50.0	46.2		ug/L		92	70 - 130
Chloromethane	50.0	45.8		ug/L		92	59 - 127
cis-1,2-Dichloroethene	50.0	54.5		ug/L		109	70 - 130
cis-1,3-Dichloropropene	50.0	59.7		ug/L		119	70 - 130
Cyclohexane	50.0	54.5		ug/L		109	23 - 175
Dibromochloromethane	50.0	54.3		ug/L		109	70 - 130
Dichlorodifluoromethane	50.0	39.4		ug/L		79	70 - 130
Ethylbenzene	50.0	51.6		ug/L		103	70 - 130
Isopropylbenzene	50.0	51.9		ug/L		104	70 - 130
m,p-Xylenes	50.0	50.5		ug/L		101	70 - 130
Methyl acetate	100	96.4		ug/L		96	67 - 120
Methyl tert-butyl ether	50.0	52.7		ug/L		105	70 - 130
Methylene Chloride	50.0	51.5		ug/L		103	70 - 130
o-Xylene	50.0	49.0		ug/L		98	70 - 130
Styrene	50.0	48.7		ug/L		97	70 - 130
Tetrachloroethene	50.0	54.8		ug/L		110	70 - 130
Toluene	50.0	50.8		ug/L		102	70 - 130
trans-1,2-Dichloroethene	50.0	56.2		ug/L		112	70 - 130
trans-1,3-Dichloropropene	50.0	54.6		ug/L		109	70 - 130
Trichloroethene	50.0	54.8		ug/L		110	70 - 130
Trichlorofluoromethane	50.0	48.4		ug/L		97	63 - 142
Vinyl chloride	50.0	47.6		ug/L		95	66 - 129

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-803714/4
Matrix: Water
Analysis Batch: 803714

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Xylenes, Total			100	99.5		ug/L		100	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*60 - 124*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
Dibromofluoromethane (Surr)	*102*		*70 - 130*
Toluene-d8 (Surr)	*96*		*70 - 130*

Lab Sample ID: LCSD 680-803714/5
Matrix: Water
Analysis Batch: 803714

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane			50.0	56.9		ug/L		114	70 - 130	4	30
1,1,2,2-Tetrachloroethane			50.0	56.9		ug/L		114	70 - 130	3	30
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	49.1		ug/L		98	63 - 141	7	30
1,1,2-Trichloroethane			50.0	55.6		ug/L		111	70 - 130	2	30
1,1-Dichloroethane			50.0	53.3		ug/L		107	70 - 130	3	30
1,1-Dichloroethene			50.0	44.5		ug/L		89	70 - 130	8	20
1,2,4-Trichlorobenzene			50.0	54.3		ug/L		109	70 - 130	1	30
1,2-Dibromo-3-Chloropropane			50.0	60.1		ug/L		120	70 - 130	1	30
1,2-Dibromoethane (EDB)			50.0	51.0		ug/L		102	70 - 130	4	30
1,2-Dichlorobenzene			50.0	54.8		ug/L		110	70 - 130	0	30
1,2-Dichloroethane			50.0	55.1		ug/L		110	70 - 130	3	50
1,2-Dichloropropane			50.0	54.1		ug/L		108	70 - 130	2	20
1,3-Dichlorobenzene			50.0	52.9		ug/L		106	70 - 130	2	30
1,4-Dichlorobenzene			50.0	52.6		ug/L		105	70 - 130	4	30
2-Butanone (MEK)			250	233		ug/L		93	69 - 120	5	30
2-Hexanone			250	251		ug/L		100	70 - 130	6	20
4-Methyl-2-pentanone			250	265		ug/L		106	68 - 120	3	30
Acetone			250	253		ug/L		101	67 - 120	0	30
Benzene			50.0	51.4		ug/L		103	70 - 130	2	30
Bromodichloromethane			50.0	51.0		ug/L		102	70 - 130	1	30
Bromoform			50.0	53.3		ug/L		107	69 - 129	2	30
Bromomethane			50.0	56.0		ug/L		112	28 - 192	14	30
Carbon disulfide			50.0	48.3		ug/L		97	70 - 130	4	30
Carbon tetrachloride			50.0	56.7		ug/L		113	70 - 130	1	30
Chlorobenzene			50.0	51.5		ug/L		103	70 - 130	3	30
Chloroethane			50.0	53.6		ug/L		107	31 - 213	3	30
Chloroform			50.0	47.4		ug/L		95	70 - 130	3	30
Chloromethane			50.0	52.4		ug/L		105	59 - 127	13	30
cis-1,2-Dichloroethene			50.0	50.7		ug/L		101	70 - 130	7	30
cis-1,3-Dichloropropene			50.0	59.1		ug/L		118	70 - 130	1	20
Cyclohexane			50.0	56.1		ug/L		112	23 - 175	3	30
Dibromochloromethane			50.0	53.0		ug/L		106	70 - 130	2	30
Dichlorodifluoromethane			50.0	42.2		ug/L		84	70 - 130	7	40
Ethylbenzene			50.0	53.7		ug/L		107	70 - 130	4	20
Isopropylbenzene			50.0	54.4		ug/L		109	70 - 130	5	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-803714/5
Matrix: Water
Analysis Batch: 803714

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m,p-Xylenes			50.0	53.0		ug/L		106	70 - 130	5	30
Methyl acetate			100	95.7		ug/L		96	67 - 120	1	30
Methyl tert-butyl ether			50.0	51.7		ug/L		103	70 - 130	2	30
Methylene Chloride			50.0	52.4		ug/L		105	70 - 130	2	30
o-Xylene			50.0	52.5		ug/L		105	70 - 130	7	30
Styrene			50.0	50.9		ug/L		102	70 - 130	4	30
Tetrachloroethene			50.0	54.0		ug/L		108	70 - 130	2	30
Toluene			50.0	50.8		ug/L		102	70 - 130	0	30
trans-1,2-Dichloroethene			50.0	58.5		ug/L		117	70 - 130	4	30
trans-1,3-Dichloropropene			50.0	52.2		ug/L		104	70 - 130	4	30
Trichloroethene			50.0	56.3		ug/L		113	70 - 130	3	30
Trichlorofluoromethane			50.0	48.4		ug/L		97	63 - 142	0	30
Vinyl chloride			50.0	52.4		ug/L		105	66 - 129	10	30
Xylenes, Total			100	106		ug/L		106	70 - 130	6	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*107*		*60 - 124*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
Dibromofluoromethane (Surr)	*107*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*

Client: Tetra Tech, Inc.
Job ID: 670-28660-1
Project/Site: NASA KSC LC34 - DPT

GC/MS VOA

Analysis Batch: 803455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-28660-1	LC34-DPT0984-038.0-20231013	Total/NA	Water	8260D	
670-28660-2	LC34-DPT0985-008.0-20231013	Total/NA	Water	8260D	
670-28660-3	LC34-DPT0985-013.0-20231013	Total/NA	Water	8260D	
670-28660-4	LC34-DPT0985-018.0-20231013	Total/NA	Water	8260D	
670-28660-5	LC34-DPT0985-025.0-20231013	Total/NA	Water	8260D	
670-28660-6	LC34-DPT0985-034.0-20231013	Total/NA	Water	8260D	
670-28660-7	LC34-DPT0985-038.0-20231013	Total/NA	Water	8260D	
670-28660-8	LC34-DPT0986-008.0-20231013	Total/NA	Water	8260D	
670-28660-9	LC34-DPT0986-013.0-20231013	Total/NA	Water	8260D	
670-28660-10	LC34-DPT0986-018.0-20231013	Total/NA	Water	8260D	
670-28660-11	LC34-DPT0986-025.0-20231013	Total/NA	Water	8260D	
670-28660-12	LC34-DPT0986-034.0-20231013	Total/NA	Water	8260D	
670-28660-13	LC34-DPT0986-038.0-20231013	Total/NA	Water	8260D	
670-28660-14	LC34-DPT0987-008.0-20231013	Total/NA	Water	8260D	
670-28660-15	LC34-DPT0987-013.0-20231013	Total/NA	Water	8260D	
670-28660-16	LC34-DPT0987-018.0-20231013	Total/NA	Water	8260D	
670-28660-17	LC34-DPT0987-025.0-20231013	Total/NA	Water	8260D	
670-28660-18	LC34-DPT0987-034.0-20231013	Total/NA	Water	8260D	
670-28660-19	LC34-DPT0987-038.0-20231013	Total/NA	Water	8260D	
MB 680-803455/8	Method Blank	Total/NA	Water	8260D	
LCS 680-803455/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-803455/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 803714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-28660-11 - DL	LC34-DPT0986-025.0-20231013	Total/NA	Water	8260D	
MB 680-803714/8	Method Blank	Total/NA	Water	8260D	
LCS 680-803714/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-803714/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Lab Chronicle

Client: Tetra Tech, Inc.
Job ID: 670-28660-1
Project/Site: NASA KSC LC34 - DPT

Client Sample ID: LC34-DPT0984-038.0-20231013
Lab Sample ID: 670-28660-1
Date Collected: 10/13/23 08:00
Matrix: Water
Date Received: 10/14/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	803455	MLL	EET SAV	10/19/23 13:47

Client Sample ID: LC34-DPT0985-008.0-20231013
Lab Sample ID: 670-28660-2
Date Collected: 10/13/23 08:35
Matrix: Water
Date Received: 10/14/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	803455	MLL	EET SAV	10/19/23 14:06

Client Sample ID: LC34-DPT0985-013.0-20231013
Lab Sample ID: 670-28660-3
Date Collected: 10/13/23 08:45
Matrix: Water
Date Received: 10/14/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	803455	MLL	EET SAV	10/19/23 14:25

Client Sample ID: LC34-DPT0985-018.0-20231013
Lab Sample ID: 670-28660-4
Date Collected: 10/13/23 09:00
Matrix: Water
Date Received: 10/14/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		5	803455	MLL	EET SAV	10/19/23 19:13

Client Sample ID: LC34-DPT0985-025.0-20231013
Lab Sample ID: 670-28660-5
Date Collected: 10/13/23 09:15
Matrix: Water
Date Received: 10/14/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		10	803455	MLL	EET SAV	10/19/23 18:52

Client Sample ID: LC34-DPT0985-034.0-20231013
Lab Sample ID: 670-28660-6
Date Collected: 10/13/23 09:35
Matrix: Water
Date Received: 10/14/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	803455	MLL	EET SAV	10/19/23 14:44

Client Sample ID: LC34-DPT0985-038.0-20231013
Lab Sample ID: 670-28660-7
Date Collected: 10/13/23 09:55
Matrix: Water
Date Received: 10/14/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	803455	MLL	EET SAV	10/19/23 15:03

Lab Chronicle

Client: Tetra Tech, Inc.
Job ID: 670-28660-1
Project/Site: NASA KSC LC34 - DPT

Client Sample ID: LC34-DPT0986-008.0-20231013
Lab Sample ID: 670-28660-8
Date Collected: 10/13/23 10:30
Matrix: Water
Date Received: 10/14/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	803455	MLL	EET SAV	10/19/23 15:22

Client Sample ID: LC34-DPT0986-013.0-20231013
Lab Sample ID: 670-28660-9
Date Collected: 10/13/23 10:40
Matrix: Water
Date Received: 10/14/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	803455	MLL	EET SAV	10/19/23 15:41

Client Sample ID: LC34-DPT0986-018.0-20231013
Lab Sample ID: 670-28660-10
Date Collected: 10/13/23 10:50
Matrix: Water
Date Received: 10/14/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		2	803455	MLL	EET SAV	10/19/23 19:35

Client Sample ID: LC34-DPT0986-025.0-20231013
Lab Sample ID: 670-28660-11
Date Collected: 10/13/23 11:05
Matrix: Water
Date Received: 10/14/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	803455	MLL	EET SAV	10/19/23 16:18
Total/NA	Analysis	8260D	DL	2	803714	UI	EET SAV	10/20/23 15:11

Client Sample ID: LC34-DPT0986-034.0-20231013
Lab Sample ID: 670-28660-12
Date Collected: 10/13/23 11:25
Matrix: Water
Date Received: 10/14/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	803455	MLL	EET SAV	10/19/23 16:37

Client Sample ID: LC34-DPT0986-038.0-20231013
Lab Sample ID: 670-28660-13
Date Collected: 10/13/23 11:45
Matrix: Water
Date Received: 10/14/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	803455	MLL	EET SAV	10/19/23 16:56

Client Sample ID: LC34-DPT0987-008.0-20231013
Lab Sample ID: 670-28660-14
Date Collected: 10/13/23 12:20
Matrix: Water
Date Received: 10/14/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	803455	MLL	EET SAV	10/19/23 17:15

Lab Chronicle

Client: Tetra Tech, Inc.
Job ID: 670-28660-1
Project/Site: NASA KSC LC34 - DPT

Client Sample ID: LC34-DPT0987-013.0-20231013
Lab Sample ID: 670-28660-15
Date Collected: 10/13/23 12:35
Matrix: Water
Date Received: 10/14/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	803455	MLL	EET SAV	10/19/23 17:34

Client Sample ID: LC34-DPT0987-018.0-20231013
Lab Sample ID: 670-28660-16
Date Collected: 10/13/23 12:55
Matrix: Water
Date Received: 10/14/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	803455	MLL	EET SAV	10/19/23 17:53

Client Sample ID: LC34-DPT0987-025.0-20231013
Lab Sample ID: 670-28660-17
Date Collected: 10/13/23 13:10
Matrix: Water
Date Received: 10/14/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	803455	MLL	EET SAV	10/19/23 18:12

Client Sample ID: LC34-DPT0987-034.0-20231013
Lab Sample ID: 670-28660-18
Date Collected: 10/13/23 13:30
Matrix: Water
Date Received: 10/14/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		2	803455	MLL	EET SAV	10/19/23 19:56

Client Sample ID: LC34-DPT0987-038.0-20231013
Lab Sample ID: 670-28660-19
Date Collected: 10/13/23 13:50
Matrix: Water
Date Received: 10/14/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	803455	MLL	EET SAV	10/19/23 18:31

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: Tetra Tech, Inc.
Job ID: 670-28660-1
Project/Site: NASA KSC LC34 - DPT

Laboratory: Eurofins Savannah

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
	AFCEE	SAVLAB	
Alabama	State	41450	06-30-24
ANAB	Dept. of Defense ELAP	L2463	09-22-24
Arkansas DEQ	State	19-015-0	02-01-24
California	State	2939	06-30-24
Florida	NELAP	E87052	06-30-24
Georgia	State	E87052	06-30-24
Georgia (DW)	State	803	06-30-24
Guam	State	19-007R	04-17-24
Hawaii	State	<cert No.>	06-30-24
Illinois	NELAP	200022	11-30-23
Indiana	State	C-GA-02	06-30-24
Iowa	State	353	07-01-25
Kentucky (UST)	State	NA	06-30-24
Louisiana	NELAP	30690	06-30-24
Louisiana (All)	NELAP	30690	06-30-24
Louisiana (DW)	State	LA009	12-31-23
Maine	State	GA00006	09-25-24
Maryland	State	250	12-31-23
Massachusetts	State	M-GA006	06-30-24
Michigan	State	9925	06-30-24
Mississippi	State	<cert No.>	06-30-24
Nebraska	State	NE-OS-7-04	06-30-24
New Jersey	NELAP	GA769	06-30-24
New Mexico	State	GA00006	06-30-24
North Carolina (DW)	State	13701	07-31-24
North Carolina (WW/SW)	State	269	12-31-23
Pennsylvania	NELAP	68-00474	06-30-24
Puerto Rico	State	GA00006	01-01-24
South Carolina	State	98001	06-30-23 *
Tennessee	State	TN02961	06-30-24
Texas	NELAP	T1047004185	11-30-23
Texas	TCEQ Water Supply	T104704185	06-30-24
USDA	US Federal Programs	P330-18-00313	09-03-24
Virginia	NELAP	460161	06-14-24
Wyoming	State	8TMS-L	06-30-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Tetra Tech, Inc.
Job ID: 670-28660-1
Project/Site: NASA KSC LC34 - DPT

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET SAV
5030B	Purge and Trap	SW846	EET SAV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Sample Summary

Client: Tetra Tech, Inc.
Job ID: 670-28660-1
Project/Site: NASA KSC LC34 - DPT

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
670-28660-1	LC34-DPT0984-038.0-20231013	Water	10/13/23 08:00	10/14/23 08:00
670-28660-2	LC34-DPT0985-008.0-20231013	Water	10/13/23 08:35	10/14/23 08:00
670-28660-3	LC34-DPT0985-013.0-20231013	Water	10/13/23 08:45	10/14/23 08:00
670-28660-4	LC34-DPT0985-018.0-20231013	Water	10/13/23 09:00	10/14/23 08:00
670-28660-5	LC34-DPT0985-025.0-20231013	Water	10/13/23 09:15	10/14/23 08:00
670-28660-6	LC34-DPT0985-034.0-20231013	Water	10/13/23 09:35	10/14/23 08:00
670-28660-7	LC34-DPT0985-038.0-20231013	Water	10/13/23 09:55	10/14/23 08:00
670-28660-8	LC34-DPT0986-008.0-20231013	Water	10/13/23 10:30	10/14/23 08:00
670-28660-9	LC34-DPT0986-013.0-20231013	Water	10/13/23 10:40	10/14/23 08:00
670-28660-10	LC34-DPT0986-018.0-20231013	Water	10/13/23 10:50	10/14/23 08:00
670-28660-11	LC34-DPT0986-025.0-20231013	Water	10/13/23 11:05	10/14/23 08:00
670-28660-12	LC34-DPT0986-034.0-20231013	Water	10/13/23 11:25	10/14/23 08:00
670-28660-13	LC34-DPT0986-038.0-20231013	Water	10/13/23 11:45	10/14/23 08:00
670-28660-14	LC34-DPT0987-008.0-20231013	Water	10/13/23 12:20	10/14/23 08:00
670-28660-15	LC34-DPT0987-013.0-20231013	Water	10/13/23 12:35	10/14/23 08:00
670-28660-16	LC34-DPT0987-018.0-20231013	Water	10/13/23 12:55	10/14/23 08:00
670-28660-17	LC34-DPT0987-025.0-20231013	Water	10/13/23 13:10	10/14/23 08:00
670-28660-18	LC34-DPT0987-034.0-20231013	Water	10/13/23 13:30	10/14/23 08:00
670-28660-19	LC34-DPT0987-038.0-20231013	Water	10/13/23 13:50	10/14/23 08:00

Tetra Tech, Inc. CHAIN OF CUSTODY | NUMBER No. 3771 | PAGE 1 OF 2

PROJECT NO: 112G08985	FACILITY: KSC-LC34	PROJECT MANAGER Mark Jonnet	PHONE NUMBER (412) 921-8622	LABORATORY NAME AND CONTACT: Eurofins – Kaitlin Dylnicki
SAMPLERS (SIGNATURE) – Chuck Sorden		FIELD OPERATIONS LEADER Chuck Sorden	PHONE NUMBER (321) 591-7580	ADDRESS 481 Newburyport Ave.
		CARRIER/WAYBILL NUMBER		CITY, STATE Altamonte Springs, FL

STANDARD TAT ☒ RUSH TAT ☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): G G

PRESERVATIVE USED: HCl/4°C 4°C

TYPE OF ANALYSIS: 8260D-(MOD) NASA LC34 Custom List; 8260D-(MOD) NASA LC34 Custom List

DATE 2023	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS			COMMENTS
10/13	0800	LC34-DPT0984-038.0-20231013	122	36 ~~34~~	40	GW	G	4	X	X	
↑	0835	LC34-DPT0985-000.0-20231013	121	6	10	↑	↑	↑	↑	↑	
	0845	LC34-DPT0985-013.0-20231013	↑	11	15						
	0900	LC34-DPT0985-018.0-20231013		16	20						
	0915	LC34-DPT0985-025.0-20231013		23	27						
	0935	LC34-DPT0985-034.0-20231013	↓	32	36						
	0955	LC34-DPT0985-038.0-20231013	121	36	40						
	1030	LC34-DPT0986-008.0-20231013	120	6	10						
	1040	LC34-DPT0986-013.0-20231013	↑	11	15						
	1050	LC34-DPT0986-018.0-20231013		16	20						
	1105	LC34-DPT0986-025.0-20231013		23	27						
	1125	LC34-DPT0986-034.0-20231013	↓	32	36						
10/13	1145	LC34-DPT0986-038.0-20231013	120	36	40	GW	G	4	X	X	

670-28660 Chain of Custody

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	10/13/23	1420	1. RECEIVED BY MC	10/14/23	8:00
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY) 4/02R

I-O 10-5 FORM NO. TtNUS-001 5846

Tetra Tech, Inc. CHAIN OF CUSTODY | NUMBER No. 3772 | PAGE 2 OF 2

PROJECT NO: 112G08985	FACILITY: KSC-LC34	PROJECT MANAGER: Mark Sonnen	PHONE NUMBER: (412) 921-8622	LABORATORY NAME AND CONTACT: Eurofins — Kaitlin Dylnicki
SAMPLERS (SIGNATURE): Chuck Sorden		FIELD OPERATIONS LEADER: Chuck Sorden	PHONE NUMBER: (321) 591-7580	ADDRESS: 481 Newburyport Ave.
		CARRIER/WAYBILL NUMBER		CITY, STATE: Altamonte Springs, FL

STANDARD TAT ☒ RUSH TAT ☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): G / G

PRESERVATIVE USED: HCl/4°C / 4°C

TYPE OF ANALYSIS: 8260D-TCL(MOD) NASA LC34 Custom List / 8260D-(MOD) NASA LC34 Custom List

DATE YEAR 2023	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS			COMMENTS
10/13	1220	LC34-DPT0987-008.0-20231013	119	6	10	GW	G	4	X	X	
1	1235	LC34-DPT0987-013.0-20231013	1	11	15	1	1	1	1	1	
	1255	LC34-DPT0987-018.0-20231013		16	20						
	1310	LC34-DPT0987-025.0-20231013		23	27						
	1330	LC34-DPT0987-084.0-20231013		32	36						
10/13	1350	LC34-DPT0987-038.0-20231013	119	36	40	GW	G	4	X	X	

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	10/13/23	1420	1. RECEIVED BY ML	10/14/23	8:00
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS 1.0 / 0.5

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY) 4/02R

596 FORM NO. TtNUS-001

Eurofins Orlando
481 Newburyport Avenue
Altamonte Springs, FL 32701
Phone: 407-339-5984 Fax: 407-260-6110

Chain of Custody Record

eurofins

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Dylnicki, Kaitlin	Carrier Tracking No(s):	COC No: 670-17051 1
Client Contact: Shipping/Receiving	Phone:	E-Mail: kaitlin.dylnicki@et.eurofinsus.com	State of Origin: Florida	Page: Page 1 of 3
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP Florida		Job #: 670-28660-1
Address: 5102 LaRoche Avenue,	Due Date Requested: 10/26/2023			
City: Savannah	TAT Requested (days):			
State, Zip: GA, 31404				
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	PO #:			
Email:	WO #:			
Project Name: NASA KSC LC34 DPT	Project #: 67001156			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify)

Other:

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D/5030B (MOD) NASA LC34 Custom	8260D/5030B_UP (MOD) NASA LC34 Custom	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
LC34-DPT0984-038.0-20231013 (670-28660-1)	10/13/23	08:00 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0985-008.0-20231013 (670-28660-2)	10/13/23	08:35 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0985-013.0-20231013 (670-28660-3)	10/13/23	08:45 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0985-018.0-20231013 (670-28660-4)	10/13/23	09:00 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0985-025.0-20231013 (670-28660-5)	10/13/23	09:15 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0985-034.0-20231013 (670-28660-6)	10/13/23	09:35 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0985-038.0-20231013 (670-28660-7)	10/13/23	09:55 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0986-008.0-20231013 (670-28660-8)	10/13/23	10:30 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0986-013.0-20231013 (670-28660-9)	10/13/23	10:40 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)***
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I II III IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	10/16 1420			10-15-23	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 9:25	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks: 0.6 - 0.9

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 670-28660-1

Login Number: 28660

List Source: Eurofins Orlando

List Number: 1

Creator: Clerisier, Meline

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 670-28660-1

Login Number: 28660
List Number: 2
Creator: Harley, Tynisha

List Source: Eurofins Savannah
List Creation: 10/17/23 01:33 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Mark Jonnet
Tetra Tech, Inc.
Foster Plaza 7
661 Anderson Drive
Suite 200
Pittsburgh, Pennsylvania 15220-2745

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JOB DESCRIPTION

NASA KSC LC34 DPT

JOB NUMBER

670-28817-1

Eurofins Orlando
481 Newburyport Avenue
Altamonte Springs FL 32701

See page two for job notes and contact information.

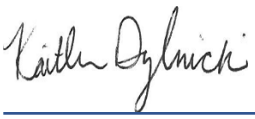
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Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization



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Authorized for release by
Kaitlin Dylnicki, Project Manager
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(407)339-5984

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Definitions/Glossary

Client: Tetra Tech, Inc.
Job ID: 670-28817-1
Project/Site: NASA KSC LC34 DPT

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
U	Indicates that the compound was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 670-28817-1

Laboratory: Eurofins Orlando

Narrative

Job Narrative
Client: Tetra Tech
Client PM: Mark Jonnet
Project: NASA KSC LC34
Project Number: 112G08985
670-28817-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 10/18/2023 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.2°C

GC/MS VOA
Method 8260D: The continuing calibration verification (CCV) associated with batch 680-803934 recovered above the upper control limit for 1,2,4-Trichlorobenzene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260D: The CCV for analytical batch 680-803934 recovered outside control limits for the following analytes1,2-Dibromo-3-Chloropropane, Dichlorodifluoromethane and Bromomethane. These analytes have been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260D: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 680-803934 recovered outside control limits for the following analytes: 1,2,4-Trichlorobenzene and 1,2-Dibromo-3-Chloropropane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D: The CCV for analytical batch 680-803944 recovered outside control limits for the following analyte(s): Bromomethane and Dichlorodifluoromethane. These analytes have been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260D: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for analytical batch 680-803944 recovered outside control limits for the following analyte(s): Dichlorodifluoromethane. Dichlorodifluoromethane has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260D: The continuing calibration verification (CCV) analyzed in batch 680-804277 was outside the method criteria for the following analyte(s): 1,2-Dibromo-3-Chloropropane, 2-Butanone (MEK), Acetone, Bromomethane and Trichlorofluoromethane. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8260D: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 680-804277 recovered outside control limits for the following analytes: Trichlorofluoromethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Job ID: 670-28817-1 (Continued)

Laboratory: Eurofins Orlando (Continued)

Method 8260D: The laboratory control sample (LCS) for analytical batch 680-804277 recovered outside control limits for the following analyte(s): 2-Butanone (MEK). 2-Butanone (MEK) has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260D: The following sample was diluted to bring the concentration of target analytes within the calibration range: LC34-DPT0994-008.0-20231017 (670-28817-33). Elevated reporting limits (RLs) are provided.

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-804277.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28817-1

Client Sample ID: LC34-DPT0988-008.0-20231016 — Lab Sample ID: 670-28817-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	1.4	I	2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.52	I	1.0	0.25	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	0.71	I	1.0	0.34	ug/L	1		8260D	Total/NA
Trichloroethene	0.41	I	1.0	0.20	ug/L	1		8260D	Total/NA
Vinyl chloride	1.6		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0988-013.0-20231016 — Lab Sample ID: 670-28817-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	66		2.0	0.50	ug/L	2		8260D	Total/NA
Vinyl chloride	250		2.0	0.80	ug/L	2		8260D	Total/NA

Client Sample ID: LC34-DPT0988-018.0-20231016 — Lab Sample ID: 670-28817-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	3000		25	6.3	ug/L	25		8260D	Total/NA
trans-1,2-Dichloroethene	63		25	8.5	ug/L	25		8260D	Total/NA
Vinyl chloride	1900		25	10	ug/L	25		8260D	Total/NA

Client Sample ID: LC34-DPT0988-025.0-20231016 — Lab Sample ID: 670-28817-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1200		10	2.5	ug/L	10		8260D	Total/NA
trans-1,2-Dichloroethene	6.4	I	10	3.4	ug/L	10		8260D	Total/NA
Vinyl chloride	220		10	4.0	ug/L	10		8260D	Total/NA

Client Sample ID: LC34-DPT0988-034.0-20231016 — Lab Sample ID: 670-28817-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.80	I	2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	16		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	1.1		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0988-038.0-20231016 — Lab Sample ID: 670-28817-6

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	1.2	I	2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.43	I	1.0	0.25	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0989-008.0-20231016 — Lab Sample ID: 670-28817-7

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	3.8		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	25		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0989-013.0-20231016 — Lab Sample ID: 670-28817-8

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	250		5.0	1.3	ug/L	5		8260D	Total/NA
Trichloroethene	1.6	I	5.0	1.0	ug/L	5		8260D	Total/NA
Vinyl chloride	810		5.0	2.0	ug/L	5		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28817-1

Client Sample ID: LC34-DPT0989-018.0-20231016 — Lab Sample ID: 670-28817-9

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1700		25	6.3	ug/L	25		8260D	Total/NA
trans-1,2-Dichloroethene	21	I	25	8.5	ug/L	25		8260D	Total/NA
Vinyl chloride	690		25	10	ug/L	25		8260D	Total/NA

Client Sample ID: LC34-DPT0989-025.0-20231016 — Lab Sample ID: 670-28817-10

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	640		5.0	1.3	ug/L	5		8260D	Total/NA
Vinyl chloride	37		5.0	2.0	ug/L	5		8260D	Total/NA

Client Sample ID: LC34-DPT0989-034.0-20231016 — Lab Sample ID: 670-28817-11

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	1.6	I	2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.72	I	1.0	0.25	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0989-038.0-20231016 — Lab Sample ID: 670-28817-12

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	1.6	I	2.0	0.43	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0990-008.0-20231016 — Lab Sample ID: 670-28817-13

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	8.2		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	74		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0990-013.0-20231016 — Lab Sample ID: 670-28817-14

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1300		25	6.3	ug/L	25		8260D	Total/NA
trans-1,2-Dichloroethene	8.5	I	25	8.5	ug/L	25		8260D	Total/NA
Vinyl chloride	590		25	10	ug/L	25		8260D	Total/NA

Client Sample ID: LC34-DPT0990-018.0-20231016 — Lab Sample ID: 670-28817-15

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1600		25	6.3	ug/L	25		8260D	Total/NA
trans-1,2-Dichloroethene	11	I	25	8.5	ug/L	25		8260D	Total/NA
Vinyl chloride	290		25	10	ug/L	25		8260D	Total/NA

Client Sample ID: LC34-DPT0990-025.0-20231016 — Lab Sample ID: 670-28817-16

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	630		5.0	1.3	ug/L	5		8260D	Total/NA
Vinyl chloride	60		5.0	2.0	ug/L	5		8260D	Total/NA

Client Sample ID: LC34-DPT0990-034.0-20231016 — Lab Sample ID: 670-28817-17

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.94	I	2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	1.4		1.0	0.25	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28817-1

Client Sample ID: LC34-DPT0990-038.0-20231016 — Lab Sample ID: 670-28817-18

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	1.2	I	2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.88	I	1.0	0.25	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0991-008.0-20231016 — Lab Sample ID: 670-28817-19

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	26		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	46		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0991-013.0-20231016 — Lab Sample ID: 670-28817-20

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	300		5.0	1.3	ug/L	5		8260D	Total/NA
Vinyl chloride	570		5.0	2.0	ug/L	5		8260D	Total/NA

Client Sample ID: LC34-DPT0992-008.0-20231017 — Lab Sample ID: 670-28817-21

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	1.0		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0992-013.0-20231017 — Lab Sample ID: 670-28817-22

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	140		5.0	1.3	ug/L	5		8260D	Total/NA
Vinyl chloride	470		5.0	2.0	ug/L	5		8260D	Total/NA

Client Sample ID: LC34-DPT0992-018.0-20231017 — Lab Sample ID: 670-28817-23

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1000		25	6.3	ug/L	25		8260D	Total/NA
Vinyl chloride	540		25	10	ug/L	25		8260D	Total/NA

Client Sample ID: LC34-DPT0992-025.0-20231017 — Lab Sample ID: 670-28817-24

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	840		10	2.5	ug/L	10		8260D	Total/NA
trans-1,2-Dichloroethene	7.6	I	10	3.4	ug/L	10		8260D	Total/NA
Vinyl chloride	170		10	4.0	ug/L	10		8260D	Total/NA

Client Sample ID: LC34-DPT0992-034.0-20231017 — Lab Sample ID: 670-28817-25

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	150		2.0	0.50	ug/L	2		8260D	Total/NA
Vinyl chloride	8.4		2.0	0.80	ug/L	2		8260D	Total/NA

Client Sample ID: LC34-DPT0992-038.0-20231017 — Lab Sample ID: 670-28817-26

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.83	I	2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.53	I	1.0	0.25	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0993-008.0-20231017 — Lab Sample ID: 670-28817-27

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.31	I	1.0	0.27	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Orlando

Client Sample ID: LC34-DPT0993-008.0-20231017 (Continued) — Lab Sample ID: 670-28817-27

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	41		1.0	0.25	ug/L	1		8260D	Total/NA
Toluene	0.82	I	1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	110		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0993-013.0-20231017 — Lab Sample ID: 670-28817-28

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	160		10	2.5	ug/L	10		8260D	Total/NA
Vinyl chloride	280		10	4.0	ug/L	10		8260D	Total/NA

Client Sample ID: LC34-DPT0993-018.0-20231017 — Lab Sample ID: 670-28817-29

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1100		10	2.5	ug/L	10		8260D	Total/NA
trans-1,2-Dichloroethene	8.8	I	10	3.4	ug/L	10		8260D	Total/NA
Vinyl chloride	540		10	4.0	ug/L	10		8260D	Total/NA

Client Sample ID: LC34-DPT0993-025.0-20231017 — Lab Sample ID: 670-28817-30

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1200		10	2.5	ug/L	10		8260D	Total/NA
Vinyl chloride	300		10	4.0	ug/L	10		8260D	Total/NA

Client Sample ID: LC34-DPT0993-034.0-20231017 — Lab Sample ID: 670-28817-31

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	130		1.0	0.25	ug/L	1		8260D	Total/NA
Toluene	1.6		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	8.3		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0993-038.0-20231017 — Lab Sample ID: 670-28817-32

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.67	I	1.0	0.25	ug/L	1		8260D	Total/NA
Toluene	0.42	I	1.0	0.25	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0994-008.0-20231017 — Lab Sample ID: 670-28817-33

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	91		5.0	1.3	ug/L	5		8260D	Total/NA
trans-1,2-Dichloroethene	3.9	I	5.0	1.7	ug/L	5		8260D	Total/NA
Trichloroethene	200		5.0	1.0	ug/L	5		8260D	Total/NA

Client Sample ID: LC34-DPT0994-013.0-20231017 — Lab Sample ID: 670-28817-34

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	66		2.0	0.50	ug/L	2		8260D	Total/NA
Trichloroethene	83		2.0	0.40	ug/L	2		8260D	Total/NA
Vinyl chloride	10		2.0	0.80	ug/L	2		8260D	Total/NA

Client Sample ID: LC34-DPT0994-018.0-20231017 — Lab Sample ID: 670-28817-35

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.4		1.0	0.25	ug/L	1		8260D	Total/NA
Trichloroethene	0.68	I	1.0	0.20	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: LC34-DPT0994-018.0-20231017 (Continued) — Lab Sample ID: 670-28817-35

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	42		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0994-025.0-20231017 — Lab Sample ID: 670-28817-36

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	9.6	I	10	2.5	ug/L	10		8260D	Total/NA
trans-1,2-Dichloroethene	10		10	3.4	ug/L	10		8260D	Total/NA
Vinyl chloride	1600		10	4.0	ug/L	10		8260D	Total/NA

Client Sample ID: LC34-DPT0994-034.0-20231017 — Lab Sample ID: 670-28817-37

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	23	I	50	13	ug/L	50		8260D	Total/NA
Vinyl chloride	5700		50	20	ug/L	50		8260D	Total/NA

Client Sample ID: LC34-DPT0994-038.0-20231017 — Lab Sample ID: 670-28817-38

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	15	I	50	13	ug/L	50		8260D	Total/NA
Trichloroethene	10	I	50	10	ug/L	50		8260D	Total/NA
Vinyl chloride	4200		50	20	ug/L	50		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28817-1

Client Sample ID: LC34-DPT0988-008.0-20231016
Date Collected: 10/16/23 09:05
Date Received: 10/18/23 08:00

Lab Sample ID: 670-28817-1
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/22/23 14:38	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/22/23 14:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/22/23 14:38	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/22/23 14:38	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/22/23 14:38	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/22/23 14:38	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/22/23 14:38	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/22/23 14:38	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/22/23 14:38	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/22/23 14:38	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/22/23 14:38	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/22/23 14:38	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/22/23 14:38	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/22/23 14:38	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/22/23 14:38	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/22/23 14:38	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/22/23 14:38	1
Acetone	3.7	U	10	3.7	ug/L			10/22/23 14:38	1
Benzene	0.27	U	1.0	0.27	ug/L			10/22/23 14:38	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/22/23 14:38	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/22/23 14:38	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/22/23 14:38	1
Carbon disulfide	**1.4**	**I**	2.0	0.43	ug/L			10/22/23 14:38	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/22/23 14:38	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/22/23 14:38	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/22/23 14:38	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/22/23 14:38	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/22/23 14:38	1
cis-1,2-Dichloroethene	**0.52**	**I**	1.0	0.25	ug/L			10/22/23 14:38	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/22/23 14:38	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/22/23 14:38	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/22/23 14:38	1
Dichlorodifluoromethane	0.36	U J3	1.0	0.36	ug/L			10/22/23 14:38	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/22/23 14:38	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/22/23 14:38	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/22/23 14:38	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/22/23 14:38	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/22/23 14:38	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/22/23 14:38	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/22/23 14:38	1
Styrene	0.27	U	1.0	0.27	ug/L			10/22/23 14:38	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/22/23 14:38	1
Toluene	0.25	U	1.0	0.25	ug/L			10/22/23 14:38	1
trans-1,2-Dichloroethene	**0.71**	**I**	1.0	0.34	ug/L			10/22/23 14:38	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/22/23 14:38	1
Trichloroethene	**0.41**	**I**	1.0	0.20	ug/L			10/22/23 14:38	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/22/23 14:38	1
Vinyl chloride	**1.6**		1.0	0.40	ug/L			10/22/23 14:38	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/22/23 14:38	1

Client Sample ID: LC34-DPT0988-008.0-20231016
Lab Sample ID: 670-28817-1

Date Collected: 10/16/23 09:05
Matrix: Water
Date Received: 10/18/23 08:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*93*		*60 - 124*		*10/22/23 14:38*	*1*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*		*10/22/23 14:38*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*10/22/23 14:38*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/22/23 14:38*	*1*

Client Sample ID: LC34-DPT0988-013.0-20231016
Lab Sample ID: 670-28817-2

Date Collected: 10/16/23 09:35
Matrix: Water
Date Received: 10/18/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.42	U	2.0	0.42	ug/L			10/22/23 14:55	2
1,1,2,2-Tetrachloroethane	0.80	U	2.0	0.80	ug/L			10/22/23 14:55	2
1,1,2-Trichloro-1,2,2-trifluoroethane	0.46	U	2.0	0.46	ug/L			10/22/23 14:55	2
1,1,2-Trichloroethane	0.64	U	2.0	0.64	ug/L			10/22/23 14:55	2
1,1-Dichloroethane	0.66	U	2.0	0.66	ug/L			10/22/23 14:55	2
1,1-Dichloroethene	0.66	U	2.0	0.66	ug/L			10/22/23 14:55	2
1,2,4-Trichlorobenzene	1.1	U J3	10	1.1	ug/L			10/22/23 14:55	2
1,2-Dibromo-3-Chloropropane	3.6	U J3	10	3.6	ug/L			10/22/23 14:55	2
1,2-Dibromoethane (EDB)	0.66	U	2.0	0.66	ug/L			10/22/23 14:55	2
1,2-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/22/23 14:55	2
1,2-Dichloroethane	0.50	U	2.0	0.50	ug/L			10/22/23 14:55	2
1,2-Dichloropropane	0.44	U	2.0	0.44	ug/L			10/22/23 14:55	2
1,3-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/22/23 14:55	2
1,4-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/22/23 14:55	2
2-Butanone (MEK)	13	U	20	13	ug/L			10/22/23 14:55	2
2-Hexanone	6.4	U	20	6.4	ug/L			10/22/23 14:55	2
4-Methyl-2-pentanone	5.4	U	20	5.4	ug/L			10/22/23 14:55	2
Acetone	7.4	U	20	7.4	ug/L			10/22/23 14:55	2
Benzene	0.54	U	2.0	0.54	ug/L			10/22/23 14:55	2
Bromodichloromethane	0.50	U	2.0	0.50	ug/L			10/22/23 14:55	2
Bromoform	1.2	U	2.0	1.2	ug/L			10/22/23 14:55	2
Bromomethane	7.4	U	10	7.4	ug/L			10/22/23 14:55	2
Carbon disulfide	0.86	U	4.0	0.86	ug/L			10/22/23 14:55	2
Carbon tetrachloride	0.60	U	2.0	0.60	ug/L			10/22/23 14:55	2
Chlorobenzene	0.30	U	2.0	0.30	ug/L			10/22/23 14:55	2
Chloroethane	9.2	U	10	9.2	ug/L			10/22/23 14:55	2
Chloroform	0.54	U	2.0	0.54	ug/L			10/22/23 14:55	2
Chloromethane	1.1	U	2.0	1.1	ug/L			10/22/23 14:55	2
cis-1,2-Dichloroethene	**66**		2.0	0.50	ug/L			10/22/23 14:55	2
cis-1,3-Dichloropropene	0.52	U	2.0	0.52	ug/L			10/22/23 14:55	2
Cyclohexane	0.56	U	2.0	0.56	ug/L			10/22/23 14:55	2
Dibromochloromethane	0.78	U	2.0	0.78	ug/L			10/22/23 14:55	2
Dichlorodifluoromethane	0.72	U	2.0	0.72	ug/L			10/22/23 14:55	2
Ethylbenzene	0.40	U	2.0	0.40	ug/L			10/22/23 14:55	2
Isopropylbenzene	0.52	U	2.0	0.52	ug/L			10/22/23 14:55	2
m,p-Xylenes	0.98	U	2.0	0.98	ug/L			10/22/23 14:55	2
Methyl acetate	6.4	U	10	6.4	ug/L			10/22/23 14:55	2
Methyl tert-butyl ether	1.6	U	10	1.6	ug/L			10/22/23 14:55	2
Methylene Chloride	6.4	U	10	6.4	ug/L			10/22/23 14:55	2

Client Sample ID: LC34-DPT0988-013.0-20231016
Lab Sample ID: 670-28817-2

Date Collected: 10/16/23 09:35
Matrix: Water
Date Received: 10/18/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	0.52	U	2.0	0.52	ug/L			10/22/23 14:55	2
Styrene	0.54	U	2.0	0.54	ug/L			10/22/23 14:55	2
Tetrachloroethene	0.70	U	2.0	0.70	ug/L			10/22/23 14:55	2
Toluene	0.50	U	2.0	0.50	ug/L			10/22/23 14:55	2
trans-1,2-Dichloroethene	0.68	U	2.0	0.68	ug/L			10/22/23 14:55	2
trans-1,3-Dichloropropene	0.46	U	2.0	0.46	ug/L			10/22/23 14:55	2
Trichloroethene	0.40	U	2.0	0.40	ug/L			10/22/23 14:55	2
Trichlorofluoromethane	0.66	U	2.0	0.66	ug/L			10/22/23 14:55	2
Vinyl chloride	**250**		2.0	0.80	ug/L			10/22/23 14:55	2
Xylenes, Total	0.46	U	2.0	0.46	ug/L			10/22/23 14:55	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*		*10/22/23 14:55*	*2*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*10/22/23 14:55*	*2*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*10/22/23 14:55*	*2*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/22/23 14:55*	*2*

Client Sample ID: LC34-DPT0988-018.0-20231016
Lab Sample ID: 670-28817-3

Date Collected: 10/16/23 09:55
Matrix: Water
Date Received: 10/18/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.3	U	25	5.3	ug/L			10/22/23 19:34	25
1,1,2,2-Tetrachloroethane	10	U	25	10	ug/L			10/22/23 19:34	25
1,1,2-Trichloro-1,2,2-trifluoroethane	5.8	U	25	5.8	ug/L			10/22/23 19:34	25
1,1,2-Trichloroethane	8.0	U	25	8.0	ug/L			10/22/23 19:34	25
1,1-Dichloroethane	8.3	U	25	8.3	ug/L			10/22/23 19:34	25
1,1-Dichloroethene	8.3	U	25	8.3	ug/L			10/22/23 19:34	25
1,2,4-Trichlorobenzene	13	U J3	130	13	ug/L			10/22/23 19:34	25
1,2-Dibromo-3-Chloropropane	45	U J3	130	45	ug/L			10/22/23 19:34	25
1,2-Dibromoethane (EDB)	8.3	U	25	8.3	ug/L			10/22/23 19:34	25
1,2-Dichlorobenzene	7.8	U	25	7.8	ug/L			10/22/23 19:34	25
1,2-Dichloroethane	6.3	U	25	6.3	ug/L			10/22/23 19:34	25
1,2-Dichloropropane	5.5	U	25	5.5	ug/L			10/22/23 19:34	25
1,3-Dichlorobenzene	7.8	U	25	7.8	ug/L			10/22/23 19:34	25
1,4-Dichlorobenzene	7.8	U	25	7.8	ug/L			10/22/23 19:34	25
2-Butanone (MEK)	160	U	250	160	ug/L			10/22/23 19:34	25
2-Hexanone	80	U	250	80	ug/L			10/22/23 19:34	25
4-Methyl-2-pentanone	68	U	250	68	ug/L			10/22/23 19:34	25
Acetone	93	U	250	93	ug/L			10/22/23 19:34	25
Benzene	6.8	U	25	6.8	ug/L			10/22/23 19:34	25
Bromodichloromethane	6.3	U	25	6.3	ug/L			10/22/23 19:34	25
Bromoform	15	U	25	15	ug/L			10/22/23 19:34	25
Bromomethane	93	U	130	93	ug/L			10/22/23 19:34	25
Carbon disulfide	11	U	50	11	ug/L			10/22/23 19:34	25
Carbon tetrachloride	7.5	U	25	7.5	ug/L			10/22/23 19:34	25
Chlorobenzene	3.8	U	25	3.8	ug/L			10/22/23 19:34	25
Chloroethane	120	U	130	120	ug/L			10/22/23 19:34	25
Chloroform	6.8	U	25	6.8	ug/L			10/22/23 19:34	25

Client Sample ID: LC34-DPT0988-018.0-20231016
Lab Sample ID: 670-28817-3

Date Collected: 10/16/23 09:55
Matrix: Water
Date Received: 10/18/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	14	U	25	14	ug/L			10/22/23 19:34	25
cis-1,2-Dichloroethene	**3000**		25	6.3	ug/L			10/22/23 19:34	25
cis-1,3-Dichloropropene	6.5	U	25	6.5	ug/L			10/22/23 19:34	25
Cyclohexane	7.0	U	25	7.0	ug/L			10/22/23 19:34	25
Dibromochloromethane	9.8	U	25	9.8	ug/L			10/22/23 19:34	25
Dichlorodifluoromethane	9.0	U	25	9.0	ug/L			10/22/23 19:34	25
Ethylbenzene	5.0	U	25	5.0	ug/L			10/22/23 19:34	25
Isopropylbenzene	6.5	U	25	6.5	ug/L			10/22/23 19:34	25
m,p-Xylenes	12	U	25	12	ug/L			10/22/23 19:34	25
Methyl acetate	80	U	130	80	ug/L			10/22/23 19:34	25
Methyl tert-butyl ether	20	U	130	20	ug/L			10/22/23 19:34	25
Methylene Chloride	80	U	130	80	ug/L			10/22/23 19:34	25
o-Xylene	6.5	U	25	6.5	ug/L			10/22/23 19:34	25
Styrene	6.8	U	25	6.8	ug/L			10/22/23 19:34	25
Tetrachloroethene	8.8	U	25	8.8	ug/L			10/22/23 19:34	25
Toluene	6.3	U	25	6.3	ug/L			10/22/23 19:34	25
trans-1,2-Dichloroethene	**63**		25	8.5	ug/L			10/22/23 19:34	25
trans-1,3-Dichloropropene	5.8	U	25	5.8	ug/L			10/22/23 19:34	25
Trichloroethene	5.0	U	25	5.0	ug/L			10/22/23 19:34	25
Trichlorofluoromethane	8.3	U	25	8.3	ug/L			10/22/23 19:34	25
Vinyl chloride	**1900**		25	10	ug/L			10/22/23 19:34	25
Xylenes, Total	5.8	U	25	5.8	ug/L			10/22/23 19:34	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*60 - 124*		*10/22/23 19:34*	*25*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*10/22/23 19:34*	*25*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*10/22/23 19:34*	*25*
Toluene-d8 (Surr)	*98*		*70 - 130*		*10/22/23 19:34*	*25*

Client Sample ID: LC34-DPT0988-025.0-20231016
Lab Sample ID: 670-28817-4

Date Collected: 10/16/23 10:10
Matrix: Water
Date Received: 10/18/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2.1	U	10	2.1	ug/L			10/22/23 17:47	10
1,1,2,2-Tetrachloroethane	4.0	U	10	4.0	ug/L			10/22/23 17:47	10
1,1,2-Trichloro-1,2,2-trifluoroethane	2.3	U	10	2.3	ug/L			10/22/23 17:47	10
1,1,2-Trichloroethane	3.2	U	10	3.2	ug/L			10/22/23 17:47	10
1,1-Dichloroethane	3.3	U	10	3.3	ug/L			10/22/23 17:47	10
1,1-Dichloroethene	3.3	U	10	3.3	ug/L			10/22/23 17:47	10
1,2,4-Trichlorobenzene	5.3	U J3	50	5.3	ug/L			10/22/23 17:47	10
1,2-Dibromo-3-Chloropropane	18	U J3	50	18	ug/L			10/22/23 17:47	10
1,2-Dibromoethane (EDB)	3.3	U	10	3.3	ug/L			10/22/23 17:47	10
1,2-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/22/23 17:47	10
1,2-Dichloroethane	2.5	U	10	2.5	ug/L			10/22/23 17:47	10
1,2-Dichloropropane	2.2	U	10	2.2	ug/L			10/22/23 17:47	10
1,3-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/22/23 17:47	10
1,4-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/22/23 17:47	10
2-Butanone (MEK)	64	U	100	64	ug/L			10/22/23 17:47	10

Client Sample ID: LC34-DPT0988-025.0-20231016
Lab Sample ID: 670-28817-4

Date Collected: 10/16/23 10:10
Matrix: Water
Date Received: 10/18/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	32	U	100	32	ug/L			10/22/23 17:47	10
4-Methyl-2-pentanone	27	U	100	27	ug/L			10/22/23 17:47	10
Acetone	37	U	100	37	ug/L			10/22/23 17:47	10
Benzene	2.7	U	10	2.7	ug/L			10/22/23 17:47	10
Bromodichloromethane	2.5	U	10	2.5	ug/L			10/22/23 17:47	10
Bromoform	5.9	U	10	5.9	ug/L			10/22/23 17:47	10
Bromomethane	37	U	50	37	ug/L			10/22/23 17:47	10
Carbon disulfide	4.3	U	20	4.3	ug/L			10/22/23 17:47	10
Carbon tetrachloride	3.0	U	10	3.0	ug/L			10/22/23 17:47	10
Chlorobenzene	1.5	U	10	1.5	ug/L			10/22/23 17:47	10
Chloroethane	46	U	50	46	ug/L			10/22/23 17:47	10
Chloroform	2.7	U	10	2.7	ug/L			10/22/23 17:47	10
Chloromethane	5.4	U	10	5.4	ug/L			10/22/23 17:47	10
cis-1,2-Dichloroethene	**1200**		10	2.5	ug/L			10/22/23 17:47	10
cis-1,3-Dichloropropene	2.6	U	10	2.6	ug/L			10/22/23 17:47	10
Cyclohexane	2.8	U	10	2.8	ug/L			10/22/23 17:47	10
Dibromochloromethane	3.9	U	10	3.9	ug/L			10/22/23 17:47	10
Dichlorodifluoromethane	3.6	U	10	3.6	ug/L			10/22/23 17:47	10
Ethylbenzene	2.0	U	10	2.0	ug/L			10/22/23 17:47	10
Isopropylbenzene	2.6	U	10	2.6	ug/L			10/22/23 17:47	10
m,p-Xylenes	4.9	U	10	4.9	ug/L			10/22/23 17:47	10
Methyl acetate	32	U	50	32	ug/L			10/22/23 17:47	10
Methyl tert-butyl ether	8.1	U	50	8.1	ug/L			10/22/23 17:47	10
Methylene Chloride	32	U	50	32	ug/L			10/22/23 17:47	10
o-Xylene	2.6	U	10	2.6	ug/L			10/22/23 17:47	10
Styrene	2.7	U	10	2.7	ug/L			10/22/23 17:47	10
Tetrachloroethene	3.5	U	10	3.5	ug/L			10/22/23 17:47	10
Toluene	2.5	U	10	2.5	ug/L			10/22/23 17:47	10
trans-1,2-Dichloroethene	**6.4**	**I**	10	3.4	ug/L			10/22/23 17:47	10
trans-1,3-Dichloropropene	2.3	U	10	2.3	ug/L			10/22/23 17:47	10
Trichloroethene	2.0	U	10	2.0	ug/L			10/22/23 17:47	10
Trichlorofluoromethane	3.3	U	10	3.3	ug/L			10/22/23 17:47	10
Vinyl chloride	**220**		10	4.0	ug/L			10/22/23 17:47	10
Xylenes, Total	2.3	U	10	2.3	ug/L			10/22/23 17:47	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*		*10/22/23 17:47*	*10*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*10/22/23 17:47*	*10*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*10/22/23 17:47*	*10*
Toluene-d8 (Surr)	*98*		*70 - 130*		*10/22/23 17:47*	*10*

Client Sample ID: LC34-DPT0988-034.0-20231016
Lab Sample ID: 670-28817-5

Date Collected: 10/16/23 10:30
Matrix: Water
Date Received: 10/18/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/22/23 15:00	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/22/23 15:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/22/23 15:00	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28817-1

Client Sample ID: LC34-DPT0988-034.0-20231016
Date Collected: 10/16/23 10:30
Date Received: 10/18/23 08:00

Lab Sample ID: 670-28817-5
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/22/23 15:00	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/22/23 15:00	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/22/23 15:00	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/22/23 15:00	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/22/23 15:00	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/22/23 15:00	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/22/23 15:00	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/22/23 15:00	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/22/23 15:00	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/22/23 15:00	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/22/23 15:00	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/22/23 15:00	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/22/23 15:00	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/22/23 15:00	1
Acetone	3.7	U	10	3.7	ug/L			10/22/23 15:00	1
Benzene	0.27	U	1.0	0.27	ug/L			10/22/23 15:00	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/22/23 15:00	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/22/23 15:00	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/22/23 15:00	1
Carbon disulfide	**0.80**	**I**	2.0	0.43	ug/L			10/22/23 15:00	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/22/23 15:00	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/22/23 15:00	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/22/23 15:00	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/22/23 15:00	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/22/23 15:00	1
cis-1,2-Dichloroethene	**16**		1.0	0.25	ug/L			10/22/23 15:00	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/22/23 15:00	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/22/23 15:00	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/22/23 15:00	1
Dichlorodifluoromethane	0.36	U J3	1.0	0.36	ug/L			10/22/23 15:00	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/22/23 15:00	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/22/23 15:00	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/22/23 15:00	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/22/23 15:00	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/22/23 15:00	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/22/23 15:00	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/22/23 15:00	1
Styrene	0.27	U	1.0	0.27	ug/L			10/22/23 15:00	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/22/23 15:00	1
Toluene	0.25	U	1.0	0.25	ug/L			10/22/23 15:00	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/22/23 15:00	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/22/23 15:00	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/22/23 15:00	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/22/23 15:00	1
Vinyl chloride	**1.1**		1.0	0.40	ug/L			10/22/23 15:00	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/22/23 15:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*60 - 124*		*10/22/23 15:00*	*1*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*		*10/22/23 15:00*	*1*

Client Sample ID: LC34-DPT0988-034.0-20231016

Lab Sample ID: 670-28817-5

Date Collected: 10/16/23 10:30

Matrix: Water

Date Received: 10/18/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*10/22/23 15:00*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/22/23 15:00*	*1*

Client Sample ID: LC34-DPT0988-038.0-20231016

Lab Sample ID: 670-28817-6

Date Collected: 10/16/23 10:50

Matrix: Water

Date Received: 10/18/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/22/23 15:22	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/22/23 15:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/22/23 15:22	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/22/23 15:22	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/22/23 15:22	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/22/23 15:22	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/22/23 15:22	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/22/23 15:22	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/22/23 15:22	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/22/23 15:22	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/22/23 15:22	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/22/23 15:22	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/22/23 15:22	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/22/23 15:22	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/22/23 15:22	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/22/23 15:22	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/22/23 15:22	1
Acetone	3.7	U	10	3.7	ug/L			10/22/23 15:22	1
Benzene	0.27	U	1.0	0.27	ug/L			10/22/23 15:22	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/22/23 15:22	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/22/23 15:22	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/22/23 15:22	1
Carbon disulfide	**1.2**	**I**	2.0	0.43	ug/L			10/22/23 15:22	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/22/23 15:22	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/22/23 15:22	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/22/23 15:22	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/22/23 15:22	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/22/23 15:22	1
cis-1,2-Dichloroethene	**0.43**	**I**	1.0	0.25	ug/L			10/22/23 15:22	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/22/23 15:22	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/22/23 15:22	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/22/23 15:22	1
Dichlorodifluoromethane	0.36	U J3	1.0	0.36	ug/L			10/22/23 15:22	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/22/23 15:22	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/22/23 15:22	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/22/23 15:22	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/22/23 15:22	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/22/23 15:22	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/22/23 15:22	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/22/23 15:22	1

Client Sample ID: LC34-DPT0988-038.0-20231016
Lab Sample ID: 670-28817-6

Date Collected: 10/16/23 10:50
Matrix: Water
Date Received: 10/18/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.27	U	1.0	0.27	ug/L			10/22/23 15:22	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/22/23 15:22	1
Toluene	0.25	U	1.0	0.25	ug/L			10/22/23 15:22	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/22/23 15:22	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/22/23 15:22	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/22/23 15:22	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/22/23 15:22	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/22/23 15:22	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/22/23 15:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*		*10/22/23 15:22*	*1*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*		*10/22/23 15:22*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*10/22/23 15:22*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*10/22/23 15:22*	*1*

Client Sample ID: LC34-DPT0989-008.0-20231016
Lab Sample ID: 670-28817-7

Date Collected: 10/16/23 11:25
Matrix: Water
Date Received: 10/18/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/22/23 15:44	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/22/23 15:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/22/23 15:44	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/22/23 15:44	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/22/23 15:44	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/22/23 15:44	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/22/23 15:44	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/22/23 15:44	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/22/23 15:44	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/22/23 15:44	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/22/23 15:44	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/22/23 15:44	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/22/23 15:44	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/22/23 15:44	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/22/23 15:44	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/22/23 15:44	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/22/23 15:44	1
Acetone	3.7	U	10	3.7	ug/L			10/22/23 15:44	1
Benzene	0.27	U	1.0	0.27	ug/L			10/22/23 15:44	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/22/23 15:44	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/22/23 15:44	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/22/23 15:44	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/22/23 15:44	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/22/23 15:44	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/22/23 15:44	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/22/23 15:44	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/22/23 15:44	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/22/23 15:44	1

Client Sample ID: LC34-DPT0989-008.0-20231016
Lab Sample ID: 670-28817-7

Date Collected: 10/16/23 11:25
Matrix: Water
Date Received: 10/18/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**3.8**		1.0	0.25	ug/L			10/22/23 15:44	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/22/23 15:44	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/22/23 15:44	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/22/23 15:44	1
Dichlorodifluoromethane	0.36	U J3	1.0	0.36	ug/L			10/22/23 15:44	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/22/23 15:44	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/22/23 15:44	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/22/23 15:44	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/22/23 15:44	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/22/23 15:44	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/22/23 15:44	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/22/23 15:44	1
Styrene	0.27	U	1.0	0.27	ug/L			10/22/23 15:44	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/22/23 15:44	1
Toluene	0.25	U	1.0	0.25	ug/L			10/22/23 15:44	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/22/23 15:44	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/22/23 15:44	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/22/23 15:44	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/22/23 15:44	1
Vinyl chloride	**25**		1.0	0.40	ug/L			10/22/23 15:44	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/22/23 15:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*60 - 124*		*10/22/23 15:44*	*1*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*		*10/22/23 15:44*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*10/22/23 15:44*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/22/23 15:44*	*1*

Client Sample ID: LC34-DPT0989-013.0-20231016
Lab Sample ID: 670-28817-8

Date Collected: 10/16/23 11:45
Matrix: Water
Date Received: 10/18/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	5.0	1.1	ug/L			10/22/23 16:00	5
1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	ug/L			10/22/23 16:00	5
1,1,2-Trichloro-1,2,2-trifluoroethane	1.2	U	5.0	1.2	ug/L			10/22/23 16:00	5
1,1,2-Trichloroethane	1.6	U	5.0	1.6	ug/L			10/22/23 16:00	5
1,1-Dichloroethane	1.7	U	5.0	1.7	ug/L			10/22/23 16:00	5
1,1-Dichloroethene	1.7	U	5.0	1.7	ug/L			10/22/23 16:00	5
1,2,4-Trichlorobenzene	2.7	U J3	25	2.7	ug/L			10/22/23 16:00	5
1,2-Dibromo-3-Chloropropane	9.0	U J3	25	9.0	ug/L			10/22/23 16:00	5
1,2-Dibromoethane (EDB)	1.7	U	5.0	1.7	ug/L			10/22/23 16:00	5
1,2-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/22/23 16:00	5
1,2-Dichloroethane	1.3	U	5.0	1.3	ug/L			10/22/23 16:00	5
1,2-Dichloropropane	1.1	U	5.0	1.1	ug/L			10/22/23 16:00	5
1,3-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/22/23 16:00	5
1,4-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/22/23 16:00	5
2-Butanone (MEK)	32	U	50	32	ug/L			10/22/23 16:00	5
2-Hexanone	16	U	50	16	ug/L			10/22/23 16:00	5

Client: Tetra Tech, Inc.
Job ID: 670-28817-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT0989-013.0-20231016
Lab Sample ID: 670-28817-8
Date Collected: 10/16/23 11:45
Matrix: Water
Date Received: 10/18/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone	14	U	50	14	ug/L			10/22/23 16:00	5
Acetone	19	U	50	19	ug/L			10/22/23 16:00	5
Benzene	1.4	U	5.0	1.4	ug/L			10/22/23 16:00	5
Bromodichloromethane	1.3	U	5.0	1.3	ug/L			10/22/23 16:00	5
Bromoform	3.0	U	5.0	3.0	ug/L			10/22/23 16:00	5
Bromomethane	19	U	25	19	ug/L			10/22/23 16:00	5
Carbon disulfide	2.2	U	10	2.2	ug/L			10/22/23 16:00	5
Carbon tetrachloride	1.5	U	5.0	1.5	ug/L			10/22/23 16:00	5
Chlorobenzene	0.75	U	5.0	0.75	ug/L			10/22/23 16:00	5
Chloroethane	23	U	25	23	ug/L			10/22/23 16:00	5
Chloroform	1.4	U	5.0	1.4	ug/L			10/22/23 16:00	5
Chloromethane	2.7	U	5.0	2.7	ug/L			10/22/23 16:00	5
cis-1,2-Dichloroethene	**250**		5.0	1.3	ug/L			10/22/23 16:00	5
cis-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			10/22/23 16:00	5
Cyclohexane	1.4	U	5.0	1.4	ug/L			10/22/23 16:00	5
Dibromochloromethane	2.0	U	5.0	2.0	ug/L			10/22/23 16:00	5
Dichlorodifluoromethane	1.8	U	5.0	1.8	ug/L			10/22/23 16:00	5
Ethylbenzene	1.0	U	5.0	1.0	ug/L			10/22/23 16:00	5
Isopropylbenzene	1.3	U	5.0	1.3	ug/L			10/22/23 16:00	5
m,p-Xylenes	2.5	U	5.0	2.5	ug/L			10/22/23 16:00	5
Methyl acetate	16	U	25	16	ug/L			10/22/23 16:00	5
Methyl tert-butyl ether	4.1	U	25	4.1	ug/L			10/22/23 16:00	5
Methylene Chloride	16	U	25	16	ug/L			10/22/23 16:00	5
o-Xylene	1.3	U	5.0	1.3	ug/L			10/22/23 16:00	5
Styrene	1.4	U	5.0	1.4	ug/L			10/22/23 16:00	5
Tetrachloroethene	1.8	U	5.0	1.8	ug/L			10/22/23 16:00	5
Toluene	1.3	U	5.0	1.3	ug/L			10/22/23 16:00	5
trans-1,2-Dichloroethene	1.7	U	5.0	1.7	ug/L			10/22/23 16:00	5
trans-1,3-Dichloropropene	1.2	U	5.0	1.2	ug/L			10/22/23 16:00	5
Trichloroethene	**1.6**	**I**	5.0	1.0	ug/L			10/22/23 16:00	5
Trichlorofluoromethane	1.7	U	5.0	1.7	ug/L			10/22/23 16:00	5
Vinyl chloride	**810**		5.0	2.0	ug/L			10/22/23 16:00	5
Xylenes, Total	1.2	U	5.0	1.2	ug/L			10/22/23 16:00	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*60 - 124*		*10/22/23 16:00*	*5*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*10/22/23 16:00*	*5*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*10/22/23 16:00*	*5*
Toluene-d8 (Surr)	*99*		*70 - 130*		*10/22/23 16:00*	*5*

Client Sample ID: LC34-DPT0989-018.0-20231016
Lab Sample ID: 670-28817-9
Date Collected: 10/16/23 12:00
Matrix: Water
Date Received: 10/18/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.3	U	25	5.3	ug/L			10/22/23 19:55	25
1,1,2,2-Tetrachloroethane	10	U	25	10	ug/L			10/22/23 19:55	25
1,1,2-Trichloro-1,2,2-trifluoroethane	5.8	U	25	5.8	ug/L			10/22/23 19:55	25
1,1,2-Trichloroethane	8.0	U	25	8.0	ug/L			10/22/23 19:55	25

Client Sample ID: LC34-DPT0989-018.0-20231016
Lab Sample ID: 670-28817-9
Date Collected: 10/16/23 12:00
Matrix: Water
Date Received: 10/18/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	8.3	U	25	8.3	ug/L			10/22/23 19:55	25
1,1-Dichloroethene	8.3	U	25	8.3	ug/L			10/22/23 19:55	25
1,2,4-Trichlorobenzene	13	U J3	130	13	ug/L			10/22/23 19:55	25
1,2-Dibromo-3-Chloropropane	45	U J3	130	45	ug/L			10/22/23 19:55	25
1,2-Dibromoethane (EDB)	8.3	U	25	8.3	ug/L			10/22/23 19:55	25
1,2-Dichlorobenzene	7.8	U	25	7.8	ug/L			10/22/23 19:55	25
1,2-Dichloroethane	6.3	U	25	6.3	ug/L			10/22/23 19:55	25
1,2-Dichloropropane	5.5	U	25	5.5	ug/L			10/22/23 19:55	25
1,3-Dichlorobenzene	7.8	U	25	7.8	ug/L			10/22/23 19:55	25
1,4-Dichlorobenzene	7.8	U	25	7.8	ug/L			10/22/23 19:55	25
2-Butanone (MEK)	160	U	250	160	ug/L			10/22/23 19:55	25
2-Hexanone	80	U	250	80	ug/L			10/22/23 19:55	25
4-Methyl-2-pentanone	68	U	250	68	ug/L			10/22/23 19:55	25
Acetone	93	U	250	93	ug/L			10/22/23 19:55	25
Benzene	6.8	U	25	6.8	ug/L			10/22/23 19:55	25
Bromodichloromethane	6.3	U	25	6.3	ug/L			10/22/23 19:55	25
Bromoform	15	U	25	15	ug/L			10/22/23 19:55	25
Bromomethane	93	U	130	93	ug/L			10/22/23 19:55	25
Carbon disulfide	11	U	50	11	ug/L			10/22/23 19:55	25
Carbon tetrachloride	7.5	U	25	7.5	ug/L			10/22/23 19:55	25
Chlorobenzene	3.8	U	25	3.8	ug/L			10/22/23 19:55	25
Chloroethane	120	U	130	120	ug/L			10/22/23 19:55	25
Chloroform	6.8	U	25	6.8	ug/L			10/22/23 19:55	25
Chloromethane	14	U	25	14	ug/L			10/22/23 19:55	25
cis-1,2-Dichloroethene	**1700**		25	6.3	ug/L			10/22/23 19:55	25
cis-1,3-Dichloropropene	6.5	U	25	6.5	ug/L			10/22/23 19:55	25
Cyclohexane	7.0	U	25	7.0	ug/L			10/22/23 19:55	25
Dibromochloromethane	9.8	U	25	9.8	ug/L			10/22/23 19:55	25
Dichlorodifluoromethane	9.0	U	25	9.0	ug/L			10/22/23 19:55	25
Ethylbenzene	5.0	U	25	5.0	ug/L			10/22/23 19:55	25
Isopropylbenzene	6.5	U	25	6.5	ug/L			10/22/23 19:55	25
m,p-Xylenes	12	U	25	12	ug/L			10/22/23 19:55	25
Methyl acetate	80	U	130	80	ug/L			10/22/23 19:55	25
Methyl tert-butyl ether	20	U	130	20	ug/L			10/22/23 19:55	25
Methylene Chloride	80	U	130	80	ug/L			10/22/23 19:55	25
o-Xylene	6.5	U	25	6.5	ug/L			10/22/23 19:55	25
Styrene	6.8	U	25	6.8	ug/L			10/22/23 19:55	25
Tetrachloroethene	8.8	U	25	8.8	ug/L			10/22/23 19:55	25
Toluene	6.3	U	25	6.3	ug/L			10/22/23 19:55	25
trans-1,2-Dichloroethene	**21**	**I**	25	8.5	ug/L			10/22/23 19:55	25
trans-1,3-Dichloropropene	5.8	U	25	5.8	ug/L			10/22/23 19:55	25
Trichloroethene	5.0	U	25	5.0	ug/L			10/22/23 19:55	25
Trichlorofluoromethane	8.3	U	25	8.3	ug/L			10/22/23 19:55	25
Vinyl chloride	**690**		25	10	ug/L			10/22/23 19:55	25
Xylenes, Total	5.8	U	25	5.8	ug/L			10/22/23 19:55	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*		*10/22/23 19:55*	*25*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/22/23 19:55*	*25*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*10/22/23 19:55*	*25*

Client Sample ID: LC34-DPT0989-018.0-20231016
Lab Sample ID: 670-28817-9

Date Collected: 10/16/23 12:00
Matrix: Water
Date Received: 10/18/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		70 - 130		10/22/23 19:55	25

Client Sample ID: LC34-DPT0989-025.0-20231016
Lab Sample ID: 670-28817-10

Date Collected: 10/16/23 12:30
Matrix: Water
Date Received: 10/18/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	5.0	1.1	ug/L			10/22/23 16:43	5
1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	ug/L			10/22/23 16:43	5
1,1,2-Trichloro-1,2,2-trifluoroethane	1.2	U	5.0	1.2	ug/L			10/22/23 16:43	5
1,1,2-Trichloroethane	1.6	U	5.0	1.6	ug/L			10/22/23 16:43	5
1,1-Dichloroethane	1.7	U	5.0	1.7	ug/L			10/22/23 16:43	5
1,1-Dichloroethene	1.7	U	5.0	1.7	ug/L			10/22/23 16:43	5
1,2,4-Trichlorobenzene	2.7	U J3	25	2.7	ug/L			10/22/23 16:43	5
1,2-Dibromo-3-Chloropropane	9.0	U J3	25	9.0	ug/L			10/22/23 16:43	5
1,2-Dibromoethane (EDB)	1.7	U	5.0	1.7	ug/L			10/22/23 16:43	5
1,2-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/22/23 16:43	5
1,2-Dichloroethane	1.3	U	5.0	1.3	ug/L			10/22/23 16:43	5
1,2-Dichloropropane	1.1	U	5.0	1.1	ug/L			10/22/23 16:43	5
1,3-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/22/23 16:43	5
1,4-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/22/23 16:43	5
2-Butanone (MEK)	32	U	50	32	ug/L			10/22/23 16:43	5
2-Hexanone	16	U	50	16	ug/L			10/22/23 16:43	5
4-Methyl-2-pentanone	14	U	50	14	ug/L			10/22/23 16:43	5
Acetone	19	U	50	19	ug/L			10/22/23 16:43	5
Benzene	1.4	U	5.0	1.4	ug/L			10/22/23 16:43	5
Bromodichloromethane	1.3	U	5.0	1.3	ug/L			10/22/23 16:43	5
Bromoform	3.0	U	5.0	3.0	ug/L			10/22/23 16:43	5
Bromomethane	19	U	25	19	ug/L			10/22/23 16:43	5
Carbon disulfide	2.2	U	10	2.2	ug/L			10/22/23 16:43	5
Carbon tetrachloride	1.5	U	5.0	1.5	ug/L			10/22/23 16:43	5
Chlorobenzene	0.75	U	5.0	0.75	ug/L			10/22/23 16:43	5
Chloroethane	23	U	25	23	ug/L			10/22/23 16:43	5
Chloroform	1.4	U	5.0	1.4	ug/L			10/22/23 16:43	5
Chloromethane	2.7	U	5.0	2.7	ug/L			10/22/23 16:43	5
cis-1,2-Dichloroethene	**640**		5.0	1.3	ug/L			10/22/23 16:43	5
cis-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			10/22/23 16:43	5
Cyclohexane	1.4	U	5.0	1.4	ug/L			10/22/23 16:43	5
Dibromochloromethane	2.0	U	5.0	2.0	ug/L			10/22/23 16:43	5
Dichlorodifluoromethane	1.8	U	5.0	1.8	ug/L			10/22/23 16:43	5
Ethylbenzene	1.0	U	5.0	1.0	ug/L			10/22/23 16:43	5
Isopropylbenzene	1.3	U	5.0	1.3	ug/L			10/22/23 16:43	5
m,p-Xylenes	2.5	U	5.0	2.5	ug/L			10/22/23 16:43	5
Methyl acetate	16	U	25	16	ug/L			10/22/23 16:43	5
Methyl tert-butyl ether	4.1	U	25	4.1	ug/L			10/22/23 16:43	5
Methylene Chloride	16	U	25	16	ug/L			10/22/23 16:43	5
o-Xylene	1.3	U	5.0	1.3	ug/L			10/22/23 16:43	5
Styrene	1.4	U	5.0	1.4	ug/L			10/22/23 16:43	5

Client Sample ID: LC34-DPT0989-025.0-20231016
Lab Sample ID: 670-28817-10

Date Collected: 10/16/23 12:30
Matrix: Water
Date Received: 10/18/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1.8	U	5.0	1.8	ug/L			10/22/23 16:43	5
Toluene	1.3	U	5.0	1.3	ug/L			10/22/23 16:43	5
trans-1,2-Dichloroethene	1.7	U	5.0	1.7	ug/L			10/22/23 16:43	5
trans-1,3-Dichloropropene	1.2	U	5.0	1.2	ug/L			10/22/23 16:43	5
Trichloroethene	1.0	U	5.0	1.0	ug/L			10/22/23 16:43	5
Trichlorofluoromethane	1.7	U	5.0	1.7	ug/L			10/22/23 16:43	5
Vinyl chloride	**37**		5.0	2.0	ug/L			10/22/23 16:43	5
Xylenes, Total	1.2	U	5.0	1.2	ug/L			10/22/23 16:43	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*60 - 124*		*10/22/23 16:43*	*5*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*10/22/23 16:43*	*5*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*10/22/23 16:43*	*5*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/22/23 16:43*	*5*

Client Sample ID: LC34-DPT0989-034.0-20231016
Lab Sample ID: 670-28817-11

Date Collected: 10/16/23 12:50
Matrix: Water
Date Received: 10/18/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/22/23 16:06	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/22/23 16:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/22/23 16:06	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/22/23 16:06	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/22/23 16:06	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/22/23 16:06	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/22/23 16:06	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/22/23 16:06	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/22/23 16:06	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/22/23 16:06	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/22/23 16:06	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/22/23 16:06	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/22/23 16:06	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/22/23 16:06	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/22/23 16:06	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/22/23 16:06	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/22/23 16:06	1
Acetone	3.7	U	10	3.7	ug/L			10/22/23 16:06	1
Benzene	0.27	U	1.0	0.27	ug/L			10/22/23 16:06	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/22/23 16:06	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/22/23 16:06	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/22/23 16:06	1
Carbon disulfide	**1.6**	**I**	2.0	0.43	ug/L			10/22/23 16:06	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/22/23 16:06	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/22/23 16:06	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/22/23 16:06	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/22/23 16:06	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/22/23 16:06	1
cis-1,2-Dichloroethene	**0.72**	**I**	1.0	0.25	ug/L			10/22/23 16:06	1

Client Sample ID: LC34-DPT0989-034.0-20231016
Lab Sample ID: 670-28817-11

Date Collected: 10/16/23 12:50
Matrix: Water
Date Received: 10/18/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/22/23 16:06	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/22/23 16:06	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/22/23 16:06	1
Dichlorodifluoromethane	0.36	U J3	1.0	0.36	ug/L			10/22/23 16:06	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/22/23 16:06	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/22/23 16:06	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/22/23 16:06	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/22/23 16:06	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/22/23 16:06	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/22/23 16:06	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/22/23 16:06	1
Styrene	0.27	U	1.0	0.27	ug/L			10/22/23 16:06	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/22/23 16:06	1
Toluene	0.25	U	1.0	0.25	ug/L			10/22/23 16:06	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/22/23 16:06	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/22/23 16:06	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/22/23 16:06	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/22/23 16:06	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/22/23 16:06	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/22/23 16:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*		*10/22/23 16:06*	*1*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*		*10/22/23 16:06*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*10/22/23 16:06*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/22/23 16:06*	*1*

Client Sample ID: LC34-DPT0989-038.0-20231016
Lab Sample ID: 670-28817-12

Date Collected: 10/16/23 13:10
Matrix: Water
Date Received: 10/18/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/22/23 16:28	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/22/23 16:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/22/23 16:28	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/22/23 16:28	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/22/23 16:28	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/22/23 16:28	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/22/23 16:28	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/22/23 16:28	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/22/23 16:28	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/22/23 16:28	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/22/23 16:28	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/22/23 16:28	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/22/23 16:28	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/22/23 16:28	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/22/23 16:28	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/22/23 16:28	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/22/23 16:28	1

Client Sample ID: LC34-DPT0989-038.0-20231016
Lab Sample ID: 670-28817-12

Date Collected: 10/16/23 13:10
Matrix: Water
Date Received: 10/18/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	3.7	U	10	3.7	ug/L			10/22/23 16:28	1
Benzene	0.27	U	1.0	0.27	ug/L			10/22/23 16:28	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/22/23 16:28	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/22/23 16:28	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/22/23 16:28	1
Carbon disulfide	**1.6**	**I**	2.0	0.43	ug/L			10/22/23 16:28	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/22/23 16:28	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/22/23 16:28	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/22/23 16:28	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/22/23 16:28	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/22/23 16:28	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/22/23 16:28	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/22/23 16:28	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/22/23 16:28	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/22/23 16:28	1
Dichlorodifluoromethane	0.36	U J3	1.0	0.36	ug/L			10/22/23 16:28	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/22/23 16:28	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/22/23 16:28	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/22/23 16:28	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/22/23 16:28	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/22/23 16:28	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/22/23 16:28	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/22/23 16:28	1
Styrene	0.27	U	1.0	0.27	ug/L			10/22/23 16:28	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/22/23 16:28	1
Toluene	0.25	U	1.0	0.25	ug/L			10/22/23 16:28	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/22/23 16:28	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/22/23 16:28	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/22/23 16:28	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/22/23 16:28	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/22/23 16:28	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/22/23 16:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*60 - 124*		*10/22/23 16:28*	*1*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*		*10/22/23 16:28*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*10/22/23 16:28*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*10/22/23 16:28*	*1*

Client Sample ID: LC34-DPT0990-008.0-20231016
Lab Sample ID: 670-28817-13

Date Collected: 10/16/23 13:45
Matrix: Water
Date Received: 10/18/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/22/23 16:50	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/22/23 16:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/22/23 16:50	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/22/23 16:50	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/22/23 16:50	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28817-1

Client Sample ID: LC34-DPT0990-008.0-20231016
Date Collected: 10/16/23 13:45
Date Received: 10/18/23 08:00

Lab Sample ID: 670-28817-13
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/22/23 16:50	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/22/23 16:50	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/22/23 16:50	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/22/23 16:50	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/22/23 16:50	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/22/23 16:50	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/22/23 16:50	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/22/23 16:50	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/22/23 16:50	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/22/23 16:50	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/22/23 16:50	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/22/23 16:50	1
Acetone	3.7	U	10	3.7	ug/L			10/22/23 16:50	1
Benzene	0.27	U	1.0	0.27	ug/L			10/22/23 16:50	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/22/23 16:50	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/22/23 16:50	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/22/23 16:50	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/22/23 16:50	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/22/23 16:50	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/22/23 16:50	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/22/23 16:50	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/22/23 16:50	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/22/23 16:50	1
cis-1,2-Dichloroethene	**8.2**		1.0	0.25	ug/L			10/22/23 16:50	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/22/23 16:50	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/22/23 16:50	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/22/23 16:50	1
Dichlorodifluoromethane	0.36	U J3	1.0	0.36	ug/L			10/22/23 16:50	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/22/23 16:50	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/22/23 16:50	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/22/23 16:50	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/22/23 16:50	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/22/23 16:50	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/22/23 16:50	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/22/23 16:50	1
Styrene	0.27	U	1.0	0.27	ug/L			10/22/23 16:50	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/22/23 16:50	1
Toluene	0.25	U	1.0	0.25	ug/L			10/22/23 16:50	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/22/23 16:50	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/22/23 16:50	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/22/23 16:50	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/22/23 16:50	1
Vinyl chloride	**74**		1.0	0.40	ug/L			10/22/23 16:50	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/22/23 16:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*		*10/22/23 16:50*	*1*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*		*10/22/23 16:50*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*10/22/23 16:50*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/22/23 16:50*	*1*

Client: Tetra Tech, Inc.
Job ID: 670-28817-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT0990-013.0-20231016
Lab Sample ID: 670-28817-14
Date Collected: 10/16/23 13:55
Matrix: Water
Date Received: 10/18/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.3	U	25	5.3	ug/L			10/22/23 20:16	25
1,1,2,2-Tetrachloroethane	10	U	25	10	ug/L			10/22/23 20:16	25
1,1,2-Trichloro-1,2,2-trifluoroethane	5.8	U	25	5.8	ug/L			10/22/23 20:16	25
1,1,2-Trichloroethane	8.0	U	25	8.0	ug/L			10/22/23 20:16	25
1,1-Dichloroethane	8.3	U	25	8.3	ug/L			10/22/23 20:16	25
1,1-Dichloroethene	8.3	U	25	8.3	ug/L			10/22/23 20:16	25
1,2,4-Trichlorobenzene	13	U J3	130	13	ug/L			10/22/23 20:16	25
1,2-Dibromo-3-Chloropropane	45	U J3	130	45	ug/L			10/22/23 20:16	25
1,2-Dibromoethane (EDB)	8.3	U	25	8.3	ug/L			10/22/23 20:16	25
1,2-Dichlorobenzene	7.8	U	25	7.8	ug/L			10/22/23 20:16	25
1,2-Dichloroethane	6.3	U	25	6.3	ug/L			10/22/23 20:16	25
1,2-Dichloropropane	5.5	U	25	5.5	ug/L			10/22/23 20:16	25
1,3-Dichlorobenzene	7.8	U	25	7.8	ug/L			10/22/23 20:16	25
1,4-Dichlorobenzene	7.8	U	25	7.8	ug/L			10/22/23 20:16	25
2-Butanone (MEK)	160	U	250	160	ug/L			10/22/23 20:16	25
2-Hexanone	80	U	250	80	ug/L			10/22/23 20:16	25
4-Methyl-2-pentanone	68	U	250	68	ug/L			10/22/23 20:16	25
Acetone	93	U	250	93	ug/L			10/22/23 20:16	25
Benzene	6.8	U	25	6.8	ug/L			10/22/23 20:16	25
Bromodichloromethane	6.3	U	25	6.3	ug/L			10/22/23 20:16	25
Bromoform	15	U	25	15	ug/L			10/22/23 20:16	25
Bromomethane	93	U	130	93	ug/L			10/22/23 20:16	25
Carbon disulfide	11	U	50	11	ug/L			10/22/23 20:16	25
Carbon tetrachloride	7.5	U	25	7.5	ug/L			10/22/23 20:16	25
Chlorobenzene	3.8	U	25	3.8	ug/L			10/22/23 20:16	25
Chloroethane	120	U	130	120	ug/L			10/22/23 20:16	25
Chloroform	6.8	U	25	6.8	ug/L			10/22/23 20:16	25
Chloromethane	14	U	25	14	ug/L			10/22/23 20:16	25
cis-1,2-Dichloroethene	**1300**		25	6.3	ug/L			10/22/23 20:16	25
cis-1,3-Dichloropropene	6.5	U	25	6.5	ug/L			10/22/23 20:16	25
Cyclohexane	7.0	U	25	7.0	ug/L			10/22/23 20:16	25
Dibromochloromethane	9.8	U	25	9.8	ug/L			10/22/23 20:16	25
Dichlorodifluoromethane	9.0	U	25	9.0	ug/L			10/22/23 20:16	25
Ethylbenzene	5.0	U	25	5.0	ug/L			10/22/23 20:16	25
Isopropylbenzene	6.5	U	25	6.5	ug/L			10/22/23 20:16	25
m,p-Xylenes	12	U	25	12	ug/L			10/22/23 20:16	25
Methyl acetate	80	U	130	80	ug/L			10/22/23 20:16	25
Methyl tert-butyl ether	20	U	130	20	ug/L			10/22/23 20:16	25
Methylene Chloride	80	U	130	80	ug/L			10/22/23 20:16	25
o-Xylene	6.5	U	25	6.5	ug/L			10/22/23 20:16	25
Styrene	6.8	U	25	6.8	ug/L			10/22/23 20:16	25
Tetrachloroethene	8.8	U	25	8.8	ug/L			10/22/23 20:16	25
Toluene	6.3	U	25	6.3	ug/L			10/22/23 20:16	25
trans-1,2-Dichloroethene	**8.5**	**I**	25	8.5	ug/L			10/22/23 20:16	25
trans-1,3-Dichloropropene	5.8	U	25	5.8	ug/L			10/22/23 20:16	25
Trichloroethene	5.0	U	25	5.0	ug/L			10/22/23 20:16	25
Trichlorofluoromethane	8.3	U	25	8.3	ug/L			10/22/23 20:16	25
Vinyl chloride	**590**		25	10	ug/L			10/22/23 20:16	25
Xylenes, Total	5.8	U	25	5.8	ug/L			10/22/23 20:16	25

Client Sample ID: LC34-DPT0990-013.0-20231016
Lab Sample ID: 670-28817-14

Date Collected: 10/16/23 13:55
Matrix: Water
Date Received: 10/18/23 08:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*		*10/22/23 20:16*	*25*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*10/22/23 20:16*	*25*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*10/22/23 20:16*	*25*
Toluene-d8 (Surr)	*98*		*70 - 130*		*10/22/23 20:16*	*25*

Client Sample ID: LC34-DPT0990-018.0-20231016
Lab Sample ID: 670-28817-15

Date Collected: 10/16/23 14:10
Matrix: Water
Date Received: 10/18/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.3	U	25	5.3	ug/L			10/22/23 20:37	25
1,1,2,2-Tetrachloroethane	10	U	25	10	ug/L			10/22/23 20:37	25
1,1,2-Trichloro-1,2,2-trifluoroethane	5.8	U	25	5.8	ug/L			10/22/23 20:37	25
1,1,2-Trichloroethane	8.0	U	25	8.0	ug/L			10/22/23 20:37	25
1,1-Dichloroethane	8.3	U	25	8.3	ug/L			10/22/23 20:37	25
1,1-Dichloroethene	8.3	U	25	8.3	ug/L			10/22/23 20:37	25
1,2,4-Trichlorobenzene	13	U J3	130	13	ug/L			10/22/23 20:37	25
1,2-Dibromo-3-Chloropropane	45	U J3	130	45	ug/L			10/22/23 20:37	25
1,2-Dibromoethane (EDB)	8.3	U	25	8.3	ug/L			10/22/23 20:37	25
1,2-Dichlorobenzene	7.8	U	25	7.8	ug/L			10/22/23 20:37	25
1,2-Dichloroethane	6.3	U	25	6.3	ug/L			10/22/23 20:37	25
1,2-Dichloropropane	5.5	U	25	5.5	ug/L			10/22/23 20:37	25
1,3-Dichlorobenzene	7.8	U	25	7.8	ug/L			10/22/23 20:37	25
1,4-Dichlorobenzene	7.8	U	25	7.8	ug/L			10/22/23 20:37	25
2-Butanone (MEK)	160	U	250	160	ug/L			10/22/23 20:37	25
2-Hexanone	80	U	250	80	ug/L			10/22/23 20:37	25
4-Methyl-2-pentanone	68	U	250	68	ug/L			10/22/23 20:37	25
Acetone	93	U	250	93	ug/L			10/22/23 20:37	25
Benzene	6.8	U	25	6.8	ug/L			10/22/23 20:37	25
Bromodichloromethane	6.3	U	25	6.3	ug/L			10/22/23 20:37	25
Bromoform	15	U	25	15	ug/L			10/22/23 20:37	25
Bromomethane	93	U	130	93	ug/L			10/22/23 20:37	25
Carbon disulfide	11	U	50	11	ug/L			10/22/23 20:37	25
Carbon tetrachloride	7.5	U	25	7.5	ug/L			10/22/23 20:37	25
Chlorobenzene	3.8	U	25	3.8	ug/L			10/22/23 20:37	25
Chloroethane	120	U	130	120	ug/L			10/22/23 20:37	25
Chloroform	6.8	U	25	6.8	ug/L			10/22/23 20:37	25
Chloromethane	14	U	25	14	ug/L			10/22/23 20:37	25
cis-1,2-Dichloroethene	**1600**		25	6.3	ug/L			10/22/23 20:37	25
cis-1,3-Dichloropropene	6.5	U	25	6.5	ug/L			10/22/23 20:37	25
Cyclohexane	7.0	U	25	7.0	ug/L			10/22/23 20:37	25
Dibromochloromethane	9.8	U	25	9.8	ug/L			10/22/23 20:37	25
Dichlorodifluoromethane	9.0	U	25	9.0	ug/L			10/22/23 20:37	25
Ethylbenzene	5.0	U	25	5.0	ug/L			10/22/23 20:37	25
Isopropylbenzene	6.5	U	25	6.5	ug/L			10/22/23 20:37	25
m,p-Xylenes	12	U	25	12	ug/L			10/22/23 20:37	25
Methyl acetate	80	U	130	80	ug/L			10/22/23 20:37	25
Methyl tert-butyl ether	20	U	130	20	ug/L			10/22/23 20:37	25
Methylene Chloride	80	U	130	80	ug/L			10/22/23 20:37	25

Client Sample ID: LC34-DPT0990-018.0-20231016
Lab Sample ID: 670-28817-15

Date Collected: 10/16/23 14:10
Matrix: Water
Date Received: 10/18/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	6.5	U	25	6.5	ug/L			10/22/23 20:37	25
Styrene	6.8	U	25	6.8	ug/L			10/22/23 20:37	25
Tetrachloroethene	8.8	U	25	8.8	ug/L			10/22/23 20:37	25
Toluene	6.3	U	25	6.3	ug/L			10/22/23 20:37	25
trans-1,2-Dichloroethene	**11**	**I**	25	8.5	ug/L			10/22/23 20:37	25
trans-1,3-Dichloropropene	5.8	U	25	5.8	ug/L			10/22/23 20:37	25
Trichloroethene	5.0	U	25	5.0	ug/L			10/22/23 20:37	25
Trichlorofluoromethane	8.3	U	25	8.3	ug/L			10/22/23 20:37	25
Vinyl chloride	**290**		25	10	ug/L			10/22/23 20:37	25
Xylenes, Total	5.8	U	25	5.8	ug/L			10/22/23 20:37	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*		*10/22/23 20:37*	*25*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*10/22/23 20:37*	*25*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*10/22/23 20:37*	*25*
Toluene-d8 (Surr)	*98*		*70 - 130*		*10/22/23 20:37*	*25*

Client Sample ID: LC34-DPT0990-025.0-20231016
Lab Sample ID: 670-28817-16

Date Collected: 10/16/23 14:30
Matrix: Water
Date Received: 10/18/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	5.0	1.1	ug/L			10/22/23 17:04	5
1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	ug/L			10/22/23 17:04	5
1,1,2-Trichloro-1,2,2-trifluoroethane	1.2	U	5.0	1.2	ug/L			10/22/23 17:04	5
1,1,2-Trichloroethane	1.6	U	5.0	1.6	ug/L			10/22/23 17:04	5
1,1-Dichloroethane	1.7	U	5.0	1.7	ug/L			10/22/23 17:04	5
1,1-Dichloroethene	1.7	U	5.0	1.7	ug/L			10/22/23 17:04	5
1,2,4-Trichlorobenzene	2.7	U J3	25	2.7	ug/L			10/22/23 17:04	5
1,2-Dibromo-3-Chloropropane	9.0	U J3	25	9.0	ug/L			10/22/23 17:04	5
1,2-Dibromoethane (EDB)	1.7	U	5.0	1.7	ug/L			10/22/23 17:04	5
1,2-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/22/23 17:04	5
1,2-Dichloroethane	1.3	U	5.0	1.3	ug/L			10/22/23 17:04	5
1,2-Dichloropropane	1.1	U	5.0	1.1	ug/L			10/22/23 17:04	5
1,3-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/22/23 17:04	5
1,4-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/22/23 17:04	5
2-Butanone (MEK)	32	U	50	32	ug/L			10/22/23 17:04	5
2-Hexanone	16	U	50	16	ug/L			10/22/23 17:04	5
4-Methyl-2-pentanone	14	U	50	14	ug/L			10/22/23 17:04	5
Acetone	19	U	50	19	ug/L			10/22/23 17:04	5
Benzene	1.4	U	5.0	1.4	ug/L			10/22/23 17:04	5
Bromodichloromethane	1.3	U	5.0	1.3	ug/L			10/22/23 17:04	5
Bromoform	3.0	U	5.0	3.0	ug/L			10/22/23 17:04	5
Bromomethane	19	U	25	19	ug/L			10/22/23 17:04	5
Carbon disulfide	2.2	U	10	2.2	ug/L			10/22/23 17:04	5
Carbon tetrachloride	1.5	U	5.0	1.5	ug/L			10/22/23 17:04	5
Chlorobenzene	0.75	U	5.0	0.75	ug/L			10/22/23 17:04	5
Chloroethane	23	U	25	23	ug/L			10/22/23 17:04	5
Chloroform	1.4	U	5.0	1.4	ug/L			10/22/23 17:04	5

Client Sample ID: LC34-DPT0990-025.0-20231016
Lab Sample ID: 670-28817-16

Date Collected: 10/16/23 14:30
Matrix: Water
Date Received: 10/18/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	2.7	U	5.0	2.7	ug/L			10/22/23 17:04	5
cis-1,2-Dichloroethene	**630**		5.0	1.3	ug/L			10/22/23 17:04	5
cis-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			10/22/23 17:04	5
Cyclohexane	1.4	U	5.0	1.4	ug/L			10/22/23 17:04	5
Dibromochloromethane	2.0	U	5.0	2.0	ug/L			10/22/23 17:04	5
Dichlorodifluoromethane	1.8	U	5.0	1.8	ug/L			10/22/23 17:04	5
Ethylbenzene	1.0	U	5.0	1.0	ug/L			10/22/23 17:04	5
Isopropylbenzene	1.3	U	5.0	1.3	ug/L			10/22/23 17:04	5
m,p-Xylenes	2.5	U	5.0	2.5	ug/L			10/22/23 17:04	5
Methyl acetate	16	U	25	16	ug/L			10/22/23 17:04	5
Methyl tert-butyl ether	4.1	U	25	4.1	ug/L			10/22/23 17:04	5
Methylene Chloride	16	U	25	16	ug/L			10/22/23 17:04	5
o-Xylene	1.3	U	5.0	1.3	ug/L			10/22/23 17:04	5
Styrene	1.4	U	5.0	1.4	ug/L			10/22/23 17:04	5
Tetrachloroethene	1.8	U	5.0	1.8	ug/L			10/22/23 17:04	5
Toluene	1.3	U	5.0	1.3	ug/L			10/22/23 17:04	5
trans-1,2-Dichloroethene	1.7	U	5.0	1.7	ug/L			10/22/23 17:04	5
trans-1,3-Dichloropropene	1.2	U	5.0	1.2	ug/L			10/22/23 17:04	5
Trichloroethene	1.0	U	5.0	1.0	ug/L			10/22/23 17:04	5
Trichlorofluoromethane	1.7	U	5.0	1.7	ug/L			10/22/23 17:04	5
Vinyl chloride	**60**		5.0	2.0	ug/L			10/22/23 17:04	5
Xylenes, Total	1.2	U	5.0	1.2	ug/L			10/22/23 17:04	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*60 - 124*		*10/22/23 17:04*	*5*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*10/22/23 17:04*	*5*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*10/22/23 17:04*	*5*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/22/23 17:04*	*5*

Client Sample ID: LC34-DPT0990-034.0-20231016
Lab Sample ID: 670-28817-17

Date Collected: 10/16/23 14:45
Matrix: Water
Date Received: 10/18/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/22/23 17:12	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/22/23 17:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/22/23 17:12	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/22/23 17:12	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/22/23 17:12	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/22/23 17:12	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/22/23 17:12	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/22/23 17:12	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/22/23 17:12	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/22/23 17:12	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/22/23 17:12	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/22/23 17:12	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/22/23 17:12	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/22/23 17:12	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/22/23 17:12	1

Client Sample ID: LC34-DPT0990-034.0-20231016
Lab Sample ID: 670-28817-17

Date Collected: 10/16/23 14:45
Matrix: Water
Date Received: 10/18/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	3.2	U	10	3.2	ug/L			10/22/23 17:12	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/22/23 17:12	1
Acetone	3.7	U	10	3.7	ug/L			10/22/23 17:12	1
Benzene	0.27	U	1.0	0.27	ug/L			10/22/23 17:12	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/22/23 17:12	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/22/23 17:12	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/22/23 17:12	1
Carbon disulfide	**0.94**	**I**	2.0	0.43	ug/L			10/22/23 17:12	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/22/23 17:12	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/22/23 17:12	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/22/23 17:12	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/22/23 17:12	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/22/23 17:12	1
cis-1,2-Dichloroethene	**1.4**		1.0	0.25	ug/L			10/22/23 17:12	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/22/23 17:12	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/22/23 17:12	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/22/23 17:12	1
Dichlorodifluoromethane	0.36	U J3	1.0	0.36	ug/L			10/22/23 17:12	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/22/23 17:12	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/22/23 17:12	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/22/23 17:12	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/22/23 17:12	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/22/23 17:12	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/22/23 17:12	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/22/23 17:12	1
Styrene	0.27	U	1.0	0.27	ug/L			10/22/23 17:12	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/22/23 17:12	1
Toluene	0.25	U	1.0	0.25	ug/L			10/22/23 17:12	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/22/23 17:12	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/22/23 17:12	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/22/23 17:12	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/22/23 17:12	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/22/23 17:12	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/22/23 17:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*60 - 124*		*10/22/23 17:12*	*1*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*		*10/22/23 17:12*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*10/22/23 17:12*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*10/22/23 17:12*	*1*

Client Sample ID: LC34-DPT0990-038.0-20231016
Lab Sample ID: 670-28817-18

Date Collected: 10/16/23 15:05
Matrix: Water
Date Received: 10/18/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/22/23 17:35	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/22/23 17:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/22/23 17:35	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28817-1

Client Sample ID: LC34-DPT0990-038.0-20231016
Date Collected: 10/16/23 15:05
Date Received: 10/18/23 08:00

Lab Sample ID: 670-28817-18
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/22/23 17:35	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/22/23 17:35	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/22/23 17:35	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/22/23 17:35	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/22/23 17:35	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/22/23 17:35	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/22/23 17:35	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/22/23 17:35	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/22/23 17:35	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/22/23 17:35	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/22/23 17:35	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/22/23 17:35	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/22/23 17:35	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/22/23 17:35	1
Acetone	3.7	U	10	3.7	ug/L			10/22/23 17:35	1
Benzene	0.27	U	1.0	0.27	ug/L			10/22/23 17:35	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/22/23 17:35	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/22/23 17:35	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/22/23 17:35	1
Carbon disulfide	**1.2**	**I**	2.0	0.43	ug/L			10/22/23 17:35	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/22/23 17:35	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/22/23 17:35	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/22/23 17:35	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/22/23 17:35	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/22/23 17:35	1
cis-1,2-Dichloroethene	**0.88**	**I**	1.0	0.25	ug/L			10/22/23 17:35	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/22/23 17:35	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/22/23 17:35	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/22/23 17:35	1
Dichlorodifluoromethane	0.36	U J3	1.0	0.36	ug/L			10/22/23 17:35	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/22/23 17:35	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/22/23 17:35	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/22/23 17:35	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/22/23 17:35	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/22/23 17:35	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/22/23 17:35	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/22/23 17:35	1
Styrene	0.27	U	1.0	0.27	ug/L			10/22/23 17:35	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/22/23 17:35	1
Toluene	0.25	U	1.0	0.25	ug/L			10/22/23 17:35	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/22/23 17:35	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/22/23 17:35	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/22/23 17:35	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/22/23 17:35	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/22/23 17:35	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/22/23 17:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*60 - 124*		*10/22/23 17:35*	*1*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*		*10/22/23 17:35*	*1*

Client Sample ID: LC34-DPT0990-038.0-20231016
Lab Sample ID: 670-28817-18

Date Collected: 10/16/23 15:05
Matrix: Water
Date Received: 10/18/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*10/22/23 17:35*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*10/22/23 17:35*	*1*

Client Sample ID: LC34-DPT0991-008.0-20231016
Lab Sample ID: 670-28817-19

Date Collected: 10/16/23 16:10
Matrix: Water
Date Received: 10/18/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/22/23 17:57	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/22/23 17:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/22/23 17:57	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/22/23 17:57	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/22/23 17:57	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/22/23 17:57	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/22/23 17:57	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/22/23 17:57	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/22/23 17:57	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/22/23 17:57	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/22/23 17:57	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/22/23 17:57	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/22/23 17:57	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/22/23 17:57	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/22/23 17:57	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/22/23 17:57	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/22/23 17:57	1
Acetone	3.7	U	10	3.7	ug/L			10/22/23 17:57	1
Benzene	0.27	U	1.0	0.27	ug/L			10/22/23 17:57	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/22/23 17:57	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/22/23 17:57	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/22/23 17:57	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/22/23 17:57	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/22/23 17:57	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/22/23 17:57	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/22/23 17:57	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/22/23 17:57	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/22/23 17:57	1
cis-1,2-Dichloroethene	**26**		1.0	0.25	ug/L			10/22/23 17:57	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/22/23 17:57	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/22/23 17:57	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/22/23 17:57	1
Dichlorodifluoromethane	0.36	U J3	1.0	0.36	ug/L			10/22/23 17:57	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/22/23 17:57	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/22/23 17:57	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/22/23 17:57	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/22/23 17:57	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/22/23 17:57	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/22/23 17:57	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/22/23 17:57	1

Client Sample ID: LC34-DPT0991-008.0-20231016
Lab Sample ID: 670-28817-19

Date Collected: 10/16/23 16:10
Matrix: Water
Date Received: 10/18/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.27	U	1.0	0.27	ug/L			10/22/23 17:57	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/22/23 17:57	1
Toluene	0.25	U	1.0	0.25	ug/L			10/22/23 17:57	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/22/23 17:57	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/22/23 17:57	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/22/23 17:57	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/22/23 17:57	1
Vinyl chloride	**46**		1.0	0.40	ug/L			10/22/23 17:57	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/22/23 17:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*60 - 124*		*10/22/23 17:57*	*1*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*		*10/22/23 17:57*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*10/22/23 17:57*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/22/23 17:57*	*1*

Client Sample ID: LC34-DPT0991-013.0-20231016
Lab Sample ID: 670-28817-20

Date Collected: 10/16/23 16:25
Matrix: Water
Date Received: 10/18/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	5.0	1.1	ug/L			10/22/23 16:21	5
1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	ug/L			10/22/23 16:21	5
1,1,2-Trichloro-1,2,2-trifluoroethane	1.2	U	5.0	1.2	ug/L			10/22/23 16:21	5
1,1,2-Trichloroethane	1.6	U	5.0	1.6	ug/L			10/22/23 16:21	5
1,1-Dichloroethane	1.7	U	5.0	1.7	ug/L			10/22/23 16:21	5
1,1-Dichloroethene	1.7	U	5.0	1.7	ug/L			10/22/23 16:21	5
1,2,4-Trichlorobenzene	2.7	U J3	25	2.7	ug/L			10/22/23 16:21	5
1,2-Dibromo-3-Chloropropane	9.0	U J3	25	9.0	ug/L			10/22/23 16:21	5
1,2-Dibromoethane (EDB)	1.7	U	5.0	1.7	ug/L			10/22/23 16:21	5
1,2-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/22/23 16:21	5
1,2-Dichloroethane	1.3	U	5.0	1.3	ug/L			10/22/23 16:21	5
1,2-Dichloropropane	1.1	U	5.0	1.1	ug/L			10/22/23 16:21	5
1,3-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/22/23 16:21	5
1,4-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/22/23 16:21	5
2-Butanone (MEK)	32	U	50	32	ug/L			10/22/23 16:21	5
2-Hexanone	16	U	50	16	ug/L			10/22/23 16:21	5
4-Methyl-2-pentanone	14	U	50	14	ug/L			10/22/23 16:21	5
Acetone	19	U	50	19	ug/L			10/22/23 16:21	5
Benzene	1.4	U	5.0	1.4	ug/L			10/22/23 16:21	5
Bromodichloromethane	1.3	U	5.0	1.3	ug/L			10/22/23 16:21	5
Bromoform	3.0	U	5.0	3.0	ug/L			10/22/23 16:21	5
Bromomethane	19	U	25	19	ug/L			10/22/23 16:21	5
Carbon disulfide	2.2	U	10	2.2	ug/L			10/22/23 16:21	5
Carbon tetrachloride	1.5	U	5.0	1.5	ug/L			10/22/23 16:21	5
Chlorobenzene	0.75	U	5.0	0.75	ug/L			10/22/23 16:21	5
Chloroethane	23	U	25	23	ug/L			10/22/23 16:21	5
Chloroform	1.4	U	5.0	1.4	ug/L			10/22/23 16:21	5
Chloromethane	2.7	U	5.0	2.7	ug/L			10/22/23 16:21	5

Client Sample ID: LC34-DPT0991-013.0-20231016
Lab Sample ID: 670-28817-20

Date Collected: 10/16/23 16:25
Matrix: Water
Date Received: 10/18/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**300**		5.0	1.3	ug/L			10/22/23 16:21	5
cis-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			10/22/23 16:21	5
Cyclohexane	1.4	U	5.0	1.4	ug/L			10/22/23 16:21	5
Dibromochloromethane	2.0	U	5.0	2.0	ug/L			10/22/23 16:21	5
Dichlorodifluoromethane	1.8	U	5.0	1.8	ug/L			10/22/23 16:21	5
Ethylbenzene	1.0	U	5.0	1.0	ug/L			10/22/23 16:21	5
Isopropylbenzene	1.3	U	5.0	1.3	ug/L			10/22/23 16:21	5
m,p-Xylenes	2.5	U	5.0	2.5	ug/L			10/22/23 16:21	5
Methyl acetate	16	U	25	16	ug/L			10/22/23 16:21	5
Methyl tert-butyl ether	4.1	U	25	4.1	ug/L			10/22/23 16:21	5
Methylene Chloride	16	U	25	16	ug/L			10/22/23 16:21	5
o-Xylene	1.3	U	5.0	1.3	ug/L			10/22/23 16:21	5
Styrene	1.4	U	5.0	1.4	ug/L			10/22/23 16:21	5
Tetrachloroethene	1.8	U	5.0	1.8	ug/L			10/22/23 16:21	5
Toluene	1.3	U	5.0	1.3	ug/L			10/22/23 16:21	5
trans-1,2-Dichloroethene	1.7	U	5.0	1.7	ug/L			10/22/23 16:21	5
trans-1,3-Dichloropropene	1.2	U	5.0	1.2	ug/L			10/22/23 16:21	5
Trichloroethene	1.0	U	5.0	1.0	ug/L			10/22/23 16:21	5
Trichlorofluoromethane	1.7	U	5.0	1.7	ug/L			10/22/23 16:21	5
Vinyl chloride	**570**		5.0	2.0	ug/L			10/22/23 16:21	5
Xylenes, Total	1.2	U	5.0	1.2	ug/L			10/22/23 16:21	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*60 - 124*		*10/22/23 16:21*	*5*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*10/22/23 16:21*	*5*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*10/22/23 16:21*	*5*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/22/23 16:21*	*5*

Client Sample ID: LC34-DPT0992-008.0-20231017
Lab Sample ID: 670-28817-21

Date Collected: 10/17/23 08:05
Matrix: Water
Date Received: 10/18/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/22/23 18:19	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/22/23 18:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/22/23 18:19	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/22/23 18:19	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/22/23 18:19	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/22/23 18:19	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/22/23 18:19	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/22/23 18:19	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/22/23 18:19	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/22/23 18:19	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/22/23 18:19	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/22/23 18:19	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/22/23 18:19	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/22/23 18:19	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/22/23 18:19	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/22/23 18:19	1

Client Sample ID: LC34-DPT0992-008.0-20231017
Lab Sample ID: 670-28817-21

Date Collected: 10/17/23 08:05
Matrix: Water
Date Received: 10/18/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/22/23 18:19	1
Acetone	3.7	U	10	3.7	ug/L			10/22/23 18:19	1
Benzene	0.27	U	1.0	0.27	ug/L			10/22/23 18:19	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/22/23 18:19	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/22/23 18:19	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/22/23 18:19	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/22/23 18:19	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/22/23 18:19	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/22/23 18:19	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/22/23 18:19	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/22/23 18:19	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/22/23 18:19	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/22/23 18:19	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/22/23 18:19	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/22/23 18:19	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/22/23 18:19	1
Dichlorodifluoromethane	0.36	U J3	1.0	0.36	ug/L			10/22/23 18:19	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/22/23 18:19	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/22/23 18:19	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/22/23 18:19	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/22/23 18:19	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/22/23 18:19	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/22/23 18:19	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/22/23 18:19	1
Styrene	0.27	U	1.0	0.27	ug/L			10/22/23 18:19	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/22/23 18:19	1
Toluene	0.25	U	1.0	0.25	ug/L			10/22/23 18:19	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/22/23 18:19	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/22/23 18:19	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/22/23 18:19	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/22/23 18:19	1
Vinyl chloride	**1.0**		1.0	0.40	ug/L			10/22/23 18:19	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/22/23 18:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*60 - 124*		*10/22/23 18:19*	*1*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*		*10/22/23 18:19*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*10/22/23 18:19*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*10/22/23 18:19*	*1*

Client Sample ID: LC34-DPT0992-013.0-20231017
Lab Sample ID: 670-28817-22

Date Collected: 10/17/23 08:25
Matrix: Water
Date Received: 10/18/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	5.0	1.1	ug/L			10/22/23 17:26	5
1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	ug/L			10/22/23 17:26	5
1,1,2-Trichloro-1,2,2-trifluoroethane	1.2	U	5.0	1.2	ug/L			10/22/23 17:26	5
1,1,2-Trichloroethane	1.6	U	5.0	1.6	ug/L			10/22/23 17:26	5

Client Sample ID: LC34-DPT0992-013.0-20231017
Lab Sample ID: 670-28817-22
Date Collected: 10/17/23 08:25
Matrix: Water
Date Received: 10/18/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	1.7	U	5.0	1.7	ug/L			10/22/23 17:26	5
1,1-Dichloroethene	1.7	U	5.0	1.7	ug/L			10/22/23 17:26	5
1,2,4-Trichlorobenzene	2.7	U J3	25	2.7	ug/L			10/22/23 17:26	5
1,2-Dibromo-3-Chloropropane	9.0	U J3	25	9.0	ug/L			10/22/23 17:26	5
1,2-Dibromoethane (EDB)	1.7	U	5.0	1.7	ug/L			10/22/23 17:26	5
1,2-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/22/23 17:26	5
1,2-Dichloroethane	1.3	U	5.0	1.3	ug/L			10/22/23 17:26	5
1,2-Dichloropropane	1.1	U	5.0	1.1	ug/L			10/22/23 17:26	5
1,3-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/22/23 17:26	5
1,4-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/22/23 17:26	5
2-Butanone (MEK)	32	U	50	32	ug/L			10/22/23 17:26	5
2-Hexanone	16	U	50	16	ug/L			10/22/23 17:26	5
4-Methyl-2-pentanone	14	U	50	14	ug/L			10/22/23 17:26	5
Acetone	19	U	50	19	ug/L			10/22/23 17:26	5
Benzene	1.4	U	5.0	1.4	ug/L			10/22/23 17:26	5
Bromodichloromethane	1.3	U	5.0	1.3	ug/L			10/22/23 17:26	5
Bromoform	3.0	U	5.0	3.0	ug/L			10/22/23 17:26	5
Bromomethane	19	U	25	19	ug/L			10/22/23 17:26	5
Carbon disulfide	2.2	U	10	2.2	ug/L			10/22/23 17:26	5
Carbon tetrachloride	1.5	U	5.0	1.5	ug/L			10/22/23 17:26	5
Chlorobenzene	0.75	U	5.0	0.75	ug/L			10/22/23 17:26	5
Chloroethane	23	U	25	23	ug/L			10/22/23 17:26	5
Chloroform	1.4	U	5.0	1.4	ug/L			10/22/23 17:26	5
Chloromethane	2.7	U	5.0	2.7	ug/L			10/22/23 17:26	5
cis-1,2-Dichloroethene	**140**		5.0	1.3	ug/L			10/22/23 17:26	5
cis-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			10/22/23 17:26	5
Cyclohexane	1.4	U	5.0	1.4	ug/L			10/22/23 17:26	5
Dibromochloromethane	2.0	U	5.0	2.0	ug/L			10/22/23 17:26	5
Dichlorodifluoromethane	1.8	U	5.0	1.8	ug/L			10/22/23 17:26	5
Ethylbenzene	1.0	U	5.0	1.0	ug/L			10/22/23 17:26	5
Isopropylbenzene	1.3	U	5.0	1.3	ug/L			10/22/23 17:26	5
m,p-Xylenes	2.5	U	5.0	2.5	ug/L			10/22/23 17:26	5
Methyl acetate	16	U	25	16	ug/L			10/22/23 17:26	5
Methyl tert-butyl ether	4.1	U	25	4.1	ug/L			10/22/23 17:26	5
Methylene Chloride	16	U	25	16	ug/L			10/22/23 17:26	5
o-Xylene	1.3	U	5.0	1.3	ug/L			10/22/23 17:26	5
Styrene	1.4	U	5.0	1.4	ug/L			10/22/23 17:26	5
Tetrachloroethene	1.8	U	5.0	1.8	ug/L			10/22/23 17:26	5
Toluene	1.3	U	5.0	1.3	ug/L			10/22/23 17:26	5
trans-1,2-Dichloroethene	1.7	U	5.0	1.7	ug/L			10/22/23 17:26	5
trans-1,3-Dichloropropene	1.2	U	5.0	1.2	ug/L			10/22/23 17:26	5
Trichloroethene	1.0	U	5.0	1.0	ug/L			10/22/23 17:26	5
Trichlorofluoromethane	1.7	U	5.0	1.7	ug/L			10/22/23 17:26	5
Vinyl chloride	**470**		5.0	2.0	ug/L			10/22/23 17:26	5
Xylenes, Total	1.2	U	5.0	1.2	ug/L			10/22/23 17:26	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*		*10/22/23 17:26*	*5*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*10/22/23 17:26*	*5*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*10/22/23 17:26*	*5*

Client Sample ID: LC34-DPT0992-013.0-20231017
Lab Sample ID: 670-28817-22

Date Collected: 10/17/23 08:25
Matrix: Water
Date Received: 10/18/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		70 - 130		10/22/23 17:26	5

Client Sample ID: LC34-DPT0992-018.0-20231017
Lab Sample ID: 670-28817-23

Date Collected: 10/17/23 08:40
Matrix: Water
Date Received: 10/18/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.3	U	25	5.3	ug/L			10/22/23 20:59	25
1,1,2,2-Tetrachloroethane	10	U	25	10	ug/L			10/22/23 20:59	25
1,1,2-Trichloro-1,2,2-trifluoroethane	5.8	U	25	5.8	ug/L			10/22/23 20:59	25
1,1,2-Trichloroethane	8.0	U	25	8.0	ug/L			10/22/23 20:59	25
1,1-Dichloroethane	8.3	U	25	8.3	ug/L			10/22/23 20:59	25
1,1-Dichloroethene	8.3	U	25	8.3	ug/L			10/22/23 20:59	25
1,2,4-Trichlorobenzene	13	U J3	130	13	ug/L			10/22/23 20:59	25
1,2-Dibromo-3-Chloropropane	45	U J3	130	45	ug/L			10/22/23 20:59	25
1,2-Dibromoethane (EDB)	8.3	U	25	8.3	ug/L			10/22/23 20:59	25
1,2-Dichlorobenzene	7.8	U	25	7.8	ug/L			10/22/23 20:59	25
1,2-Dichloroethane	6.3	U	25	6.3	ug/L			10/22/23 20:59	25
1,2-Dichloropropane	5.5	U	25	5.5	ug/L			10/22/23 20:59	25
1,3-Dichlorobenzene	7.8	U	25	7.8	ug/L			10/22/23 20:59	25
1,4-Dichlorobenzene	7.8	U	25	7.8	ug/L			10/22/23 20:59	25
2-Butanone (MEK)	160	U	250	160	ug/L			10/22/23 20:59	25
2-Hexanone	80	U	250	80	ug/L			10/22/23 20:59	25
4-Methyl-2-pentanone	68	U	250	68	ug/L			10/22/23 20:59	25
Acetone	93	U	250	93	ug/L			10/22/23 20:59	25
Benzene	6.8	U	25	6.8	ug/L			10/22/23 20:59	25
Bromodichloromethane	6.3	U	25	6.3	ug/L			10/22/23 20:59	25
Bromoform	15	U	25	15	ug/L			10/22/23 20:59	25
Bromomethane	93	U	130	93	ug/L			10/22/23 20:59	25
Carbon disulfide	11	U	50	11	ug/L			10/22/23 20:59	25
Carbon tetrachloride	7.5	U	25	7.5	ug/L			10/22/23 20:59	25
Chlorobenzene	3.8	U	25	3.8	ug/L			10/22/23 20:59	25
Chloroethane	120	U	130	120	ug/L			10/22/23 20:59	25
Chloroform	6.8	U	25	6.8	ug/L			10/22/23 20:59	25
Chloromethane	14	U	25	14	ug/L			10/22/23 20:59	25
cis-1,2-Dichloroethene	**1000**		25	6.3	ug/L			10/22/23 20:59	25
cis-1,3-Dichloropropene	6.5	U	25	6.5	ug/L			10/22/23 20:59	25
Cyclohexane	7.0	U	25	7.0	ug/L			10/22/23 20:59	25
Dibromochloromethane	9.8	U	25	9.8	ug/L			10/22/23 20:59	25
Dichlorodifluoromethane	9.0	U	25	9.0	ug/L			10/22/23 20:59	25
Ethylbenzene	5.0	U	25	5.0	ug/L			10/22/23 20:59	25
Isopropylbenzene	6.5	U	25	6.5	ug/L			10/22/23 20:59	25
m,p-Xylenes	12	U	25	12	ug/L			10/22/23 20:59	25
Methyl acetate	80	U	130	80	ug/L			10/22/23 20:59	25
Methyl tert-butyl ether	20	U	130	20	ug/L			10/22/23 20:59	25
Methylene Chloride	80	U	130	80	ug/L			10/22/23 20:59	25
o-Xylene	6.5	U	25	6.5	ug/L			10/22/23 20:59	25
Styrene	6.8	U	25	6.8	ug/L			10/22/23 20:59	25

Client Sample ID: LC34-DPT0992-018.0-20231017
Lab Sample ID: 670-28817-23

Date Collected: 10/17/23 08:40
Matrix: Water
Date Received: 10/18/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	8.8	U	25	8.8	ug/L			10/22/23 20:59	25
Toluene	6.3	U	25	6.3	ug/L			10/22/23 20:59	25
trans-1,2-Dichloroethene	8.5	U	25	8.5	ug/L			10/22/23 20:59	25
trans-1,3-Dichloropropene	5.8	U	25	5.8	ug/L			10/22/23 20:59	25
Trichloroethene	5.0	U	25	5.0	ug/L			10/22/23 20:59	25
Trichlorofluoromethane	8.3	U	25	8.3	ug/L			10/22/23 20:59	25
Vinyl chloride	**540**		25	10	ug/L			10/22/23 20:59	25
Xylenes, Total	5.8	U	25	5.8	ug/L			10/22/23 20:59	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*		*10/22/23 20:59*	*25*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*10/22/23 20:59*	*25*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*10/22/23 20:59*	*25*
Toluene-d8 (Surr)	*98*		*70 - 130*		*10/22/23 20:59*	*25*

Client Sample ID: LC34-DPT0992-025.0-20231017
Lab Sample ID: 670-28817-24

Date Collected: 10/17/23 08:55
Matrix: Water
Date Received: 10/18/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2.1	U	10	2.1	ug/L			10/22/23 18:08	10
1,1,2,2-Tetrachloroethane	4.0	U	10	4.0	ug/L			10/22/23 18:08	10
1,1,2-Trichloro-1,2,2-trifluoroethane	2.3	U	10	2.3	ug/L			10/22/23 18:08	10
1,1,2-Trichloroethane	3.2	U	10	3.2	ug/L			10/22/23 18:08	10
1,1-Dichloroethane	3.3	U	10	3.3	ug/L			10/22/23 18:08	10
1,1-Dichloroethene	3.3	U	10	3.3	ug/L			10/22/23 18:08	10
1,2,4-Trichlorobenzene	5.3	U J3	50	5.3	ug/L			10/22/23 18:08	10
1,2-Dibromo-3-Chloropropane	18	U J3	50	18	ug/L			10/22/23 18:08	10
1,2-Dibromoethane (EDB)	3.3	U	10	3.3	ug/L			10/22/23 18:08	10
1,2-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/22/23 18:08	10
1,2-Dichloroethane	2.5	U	10	2.5	ug/L			10/22/23 18:08	10
1,2-Dichloropropane	2.2	U	10	2.2	ug/L			10/22/23 18:08	10
1,3-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/22/23 18:08	10
1,4-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/22/23 18:08	10
2-Butanone (MEK)	64	U	100	64	ug/L			10/22/23 18:08	10
2-Hexanone	32	U	100	32	ug/L			10/22/23 18:08	10
4-Methyl-2-pentanone	27	U	100	27	ug/L			10/22/23 18:08	10
Acetone	37	U	100	37	ug/L			10/22/23 18:08	10
Benzene	2.7	U	10	2.7	ug/L			10/22/23 18:08	10
Bromodichloromethane	2.5	U	10	2.5	ug/L			10/22/23 18:08	10
Bromoform	5.9	U	10	5.9	ug/L			10/22/23 18:08	10
Bromomethane	37	U	50	37	ug/L			10/22/23 18:08	10
Carbon disulfide	4.3	U	20	4.3	ug/L			10/22/23 18:08	10
Carbon tetrachloride	3.0	U	10	3.0	ug/L			10/22/23 18:08	10
Chlorobenzene	1.5	U	10	1.5	ug/L			10/22/23 18:08	10
Chloroethane	46	U	50	46	ug/L			10/22/23 18:08	10
Chloroform	2.7	U	10	2.7	ug/L			10/22/23 18:08	10
Chloromethane	5.4	U	10	5.4	ug/L			10/22/23 18:08	10
cis-1,2-Dichloroethene	**840**		10	2.5	ug/L			10/22/23 18:08	10

Client Sample ID: LC34-DPT0992-025.0-20231017
Lab Sample ID: 670-28817-24

Date Collected: 10/17/23 08:55
Matrix: Water
Date Received: 10/18/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	2.6	U	10	2.6	ug/L			10/22/23 18:08	10
Cyclohexane	2.8	U	10	2.8	ug/L			10/22/23 18:08	10
Dibromochloromethane	3.9	U	10	3.9	ug/L			10/22/23 18:08	10
Dichlorodifluoromethane	3.6	U	10	3.6	ug/L			10/22/23 18:08	10
Ethylbenzene	2.0	U	10	2.0	ug/L			10/22/23 18:08	10
Isopropylbenzene	2.6	U	10	2.6	ug/L			10/22/23 18:08	10
m,p-Xylenes	4.9	U	10	4.9	ug/L			10/22/23 18:08	10
Methyl acetate	32	U	50	32	ug/L			10/22/23 18:08	10
Methyl tert-butyl ether	8.1	U	50	8.1	ug/L			10/22/23 18:08	10
Methylene Chloride	32	U	50	32	ug/L			10/22/23 18:08	10
o-Xylene	2.6	U	10	2.6	ug/L			10/22/23 18:08	10
Styrene	2.7	U	10	2.7	ug/L			10/22/23 18:08	10
Tetrachloroethene	3.5	U	10	3.5	ug/L			10/22/23 18:08	10
Toluene	2.5	U	10	2.5	ug/L			10/22/23 18:08	10
trans-1,2-Dichloroethene	**7.6**	**I**	10	3.4	ug/L			10/22/23 18:08	10
trans-1,3-Dichloropropene	2.3	U	10	2.3	ug/L			10/22/23 18:08	10
Trichloroethene	2.0	U	10	2.0	ug/L			10/22/23 18:08	10
Trichlorofluoromethane	3.3	U	10	3.3	ug/L			10/22/23 18:08	10
Vinyl chloride	**170**		10	4.0	ug/L			10/22/23 18:08	10
Xylenes, Total	2.3	U	10	2.3	ug/L			10/22/23 18:08	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*		*10/22/23 18:08*	*10*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*10/22/23 18:08*	*10*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*10/22/23 18:08*	*10*
Toluene-d8 (Surr)	*98*		*70 - 130*		*10/22/23 18:08*	*10*

Client Sample ID: LC34-DPT0992-034.0-20231017
Lab Sample ID: 670-28817-25

Date Collected: 10/17/23 09:15
Matrix: Water
Date Received: 10/18/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.42	U	2.0	0.42	ug/L			10/22/23 14:34	2
1,1,2,2-Tetrachloroethane	0.80	U	2.0	0.80	ug/L			10/22/23 14:34	2
1,1,2-Trichloro-1,2,2-trifluoroethane	0.46	U	2.0	0.46	ug/L			10/22/23 14:34	2
1,1,2-Trichloroethane	0.64	U	2.0	0.64	ug/L			10/22/23 14:34	2
1,1-Dichloroethane	0.66	U	2.0	0.66	ug/L			10/22/23 14:34	2
1,1-Dichloroethene	0.66	U	2.0	0.66	ug/L			10/22/23 14:34	2
1,2,4-Trichlorobenzene	1.1	U J3	10	1.1	ug/L			10/22/23 14:34	2
1,2-Dibromo-3-Chloropropane	3.6	U J3	10	3.6	ug/L			10/22/23 14:34	2
1,2-Dibromoethane (EDB)	0.66	U	2.0	0.66	ug/L			10/22/23 14:34	2
1,2-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/22/23 14:34	2
1,2-Dichloroethane	0.50	U	2.0	0.50	ug/L			10/22/23 14:34	2
1,2-Dichloropropane	0.44	U	2.0	0.44	ug/L			10/22/23 14:34	2
1,3-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/22/23 14:34	2
1,4-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/22/23 14:34	2
2-Butanone (MEK)	13	U	20	13	ug/L			10/22/23 14:34	2
2-Hexanone	6.4	U	20	6.4	ug/L			10/22/23 14:34	2
4-Methyl-2-pentanone	5.4	U	20	5.4	ug/L			10/22/23 14:34	2

Client Sample ID: LC34-DPT0992-034.0-20231017
Lab Sample ID: 670-28817-25

Date Collected: 10/17/23 09:15
Matrix: Water
Date Received: 10/18/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.4	U	20	7.4	ug/L			10/22/23 14:34	2
Benzene	0.54	U	2.0	0.54	ug/L			10/22/23 14:34	2
Bromodichloromethane	0.50	U	2.0	0.50	ug/L			10/22/23 14:34	2
Bromoform	1.2	U	2.0	1.2	ug/L			10/22/23 14:34	2
Bromomethane	7.4	U	10	7.4	ug/L			10/22/23 14:34	2
Carbon disulfide	0.86	U	4.0	0.86	ug/L			10/22/23 14:34	2
Carbon tetrachloride	0.60	U	2.0	0.60	ug/L			10/22/23 14:34	2
Chlorobenzene	0.30	U	2.0	0.30	ug/L			10/22/23 14:34	2
Chloroethane	9.2	U	10	9.2	ug/L			10/22/23 14:34	2
Chloroform	0.54	U	2.0	0.54	ug/L			10/22/23 14:34	2
Chloromethane	1.1	U	2.0	1.1	ug/L			10/22/23 14:34	2
cis-1,2-Dichloroethene	**150**		2.0	0.50	ug/L			10/22/23 14:34	2
cis-1,3-Dichloropropene	0.52	U	2.0	0.52	ug/L			10/22/23 14:34	2
Cyclohexane	0.56	U	2.0	0.56	ug/L			10/22/23 14:34	2
Dibromochloromethane	0.78	U	2.0	0.78	ug/L			10/22/23 14:34	2
Dichlorodifluoromethane	0.72	U	2.0	0.72	ug/L			10/22/23 14:34	2
Ethylbenzene	0.40	U	2.0	0.40	ug/L			10/22/23 14:34	2
Isopropylbenzene	0.52	U	2.0	0.52	ug/L			10/22/23 14:34	2
m,p-Xylenes	0.98	U	2.0	0.98	ug/L			10/22/23 14:34	2
Methyl acetate	6.4	U	10	6.4	ug/L			10/22/23 14:34	2
Methyl tert-butyl ether	1.6	U	10	1.6	ug/L			10/22/23 14:34	2
Methylene Chloride	6.4	U	10	6.4	ug/L			10/22/23 14:34	2
o-Xylene	0.52	U	2.0	0.52	ug/L			10/22/23 14:34	2
Styrene	0.54	U	2.0	0.54	ug/L			10/22/23 14:34	2
Tetrachloroethene	0.70	U	2.0	0.70	ug/L			10/22/23 14:34	2
Toluene	0.50	U	2.0	0.50	ug/L			10/22/23 14:34	2
trans-1,2-Dichloroethene	0.68	U	2.0	0.68	ug/L			10/22/23 14:34	2
trans-1,3-Dichloropropene	0.46	U	2.0	0.46	ug/L			10/22/23 14:34	2
Trichloroethene	0.40	U	2.0	0.40	ug/L			10/22/23 14:34	2
Trichlorofluoromethane	0.66	U	2.0	0.66	ug/L			10/22/23 14:34	2
Vinyl chloride	**8.4**		2.0	0.80	ug/L			10/22/23 14:34	2
Xylenes, Total	0.46	U	2.0	0.46	ug/L			10/22/23 14:34	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*84*		*60 - 124*		*10/22/23 14:34*	*2*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*10/22/23 14:34*	*2*
Dibromofluoromethane (Surr)	*94*		*70 - 130*		*10/22/23 14:34*	*2*
Toluene-d8 (Surr)	*103*		*70 - 130*		*10/22/23 14:34*	*2*

Client Sample ID: LC34-DPT0992-038.0-20231017
Lab Sample ID: 670-28817-26

Date Collected: 10/17/23 09:35
Matrix: Water
Date Received: 10/18/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/22/23 18:42	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/22/23 18:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/22/23 18:42	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/22/23 18:42	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/22/23 18:42	1

Client: Tetra Tech, Inc.
Job ID: 670-28817-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT0992-038.0-20231017
Lab Sample ID: 670-28817-26
Date Collected: 10/17/23 09:35
Matrix: Water
Date Received: 10/18/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/22/23 18:42	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/22/23 18:42	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/22/23 18:42	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/22/23 18:42	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/22/23 18:42	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/22/23 18:42	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/22/23 18:42	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/22/23 18:42	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/22/23 18:42	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/22/23 18:42	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/22/23 18:42	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/22/23 18:42	1
Acetone	3.7	U	10	3.7	ug/L			10/22/23 18:42	1
Benzene	0.27	U	1.0	0.27	ug/L			10/22/23 18:42	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/22/23 18:42	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/22/23 18:42	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/22/23 18:42	1
Carbon disulfide	**0.83**	**I**	2.0	0.43	ug/L			10/22/23 18:42	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/22/23 18:42	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/22/23 18:42	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/22/23 18:42	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/22/23 18:42	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/22/23 18:42	1
cis-1,2-Dichloroethene	**0.53**	**I**	1.0	0.25	ug/L			10/22/23 18:42	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/22/23 18:42	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/22/23 18:42	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/22/23 18:42	1
Dichlorodifluoromethane	0.36	U J3	1.0	0.36	ug/L			10/22/23 18:42	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/22/23 18:42	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/22/23 18:42	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/22/23 18:42	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/22/23 18:42	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/22/23 18:42	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/22/23 18:42	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/22/23 18:42	1
Styrene	0.27	U	1.0	0.27	ug/L			10/22/23 18:42	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/22/23 18:42	1
Toluene	0.25	U	1.0	0.25	ug/L			10/22/23 18:42	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/22/23 18:42	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/22/23 18:42	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/22/23 18:42	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/22/23 18:42	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/22/23 18:42	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/22/23 18:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*		*10/22/23 18:42*	*1*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*		*10/22/23 18:42*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*10/22/23 18:42*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*10/22/23 18:42*	*1*

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28817-1

Client Sample ID: LC34-DPT0993-008.0-20231017
Date Collected: 10/17/23 10:10
Date Received: 10/18/23 08:00

Lab Sample ID: 670-28817-27
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/22/23 19:04	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/22/23 19:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/22/23 19:04	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/22/23 19:04	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/22/23 19:04	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/22/23 19:04	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/22/23 19:04	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/22/23 19:04	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/22/23 19:04	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/22/23 19:04	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/22/23 19:04	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/22/23 19:04	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/22/23 19:04	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/22/23 19:04	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/22/23 19:04	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/22/23 19:04	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/22/23 19:04	1
Acetone	3.7	U	10	3.7	ug/L			10/22/23 19:04	1
Benzene	**0.31**	**I**	1.0	0.27	ug/L			10/22/23 19:04	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/22/23 19:04	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/22/23 19:04	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/22/23 19:04	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/22/23 19:04	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/22/23 19:04	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/22/23 19:04	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/22/23 19:04	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/22/23 19:04	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/22/23 19:04	1
cis-1,2-Dichloroethene	**41**		1.0	0.25	ug/L			10/22/23 19:04	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/22/23 19:04	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/22/23 19:04	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/22/23 19:04	1
Dichlorodifluoromethane	0.36	U J3	1.0	0.36	ug/L			10/22/23 19:04	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/22/23 19:04	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/22/23 19:04	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/22/23 19:04	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/22/23 19:04	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/22/23 19:04	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/22/23 19:04	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/22/23 19:04	1
Styrene	0.27	U	1.0	0.27	ug/L			10/22/23 19:04	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/22/23 19:04	1
Toluene	**0.82**	**I**	1.0	0.25	ug/L			10/22/23 19:04	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/22/23 19:04	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/22/23 19:04	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/22/23 19:04	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/22/23 19:04	1
Vinyl chloride	**110**		1.0	0.40	ug/L			10/22/23 19:04	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/22/23 19:04	1

Client Sample ID: LC34-DPT0993-008.0-20231017
Lab Sample ID: 670-28817-27

Date Collected: 10/17/23 10:10
Matrix: Water
Date Received: 10/18/23 08:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		60 - 124		10/22/23 19:04	1
4-Bromofluorobenzene (Surr)	92		70 - 130		10/22/23 19:04	1
Dibromofluoromethane (Surr)	99		70 - 130		10/22/23 19:04	1
Toluene-d8 (Surr)	101		70 - 130		10/22/23 19:04	1

Client Sample ID: LC34-DPT0993-013.0-20231017
Lab Sample ID: 670-28817-28

Date Collected: 10/17/23 10:20
Matrix: Water
Date Received: 10/18/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2.1	U	10	2.1	ug/L			10/24/23 21:31	10
1,1,2,2-Tetrachloroethane	4.0	U	10	4.0	ug/L			10/24/23 21:31	10
1,1,2-Trichloro-1,2,2-trifluoroethane	2.3	U	10	2.3	ug/L			10/24/23 21:31	10
1,1,2-Trichloroethane	3.2	U	10	3.2	ug/L			10/24/23 21:31	10
1,1-Dichloroethane	3.3	U	10	3.3	ug/L			10/24/23 21:31	10
1,1-Dichloroethene	3.3	U	10	3.3	ug/L			10/24/23 21:31	10
1,2,4-Trichlorobenzene	5.3	U	50	5.3	ug/L			10/24/23 21:31	10
1,2-Dibromo-3-Chloropropane	18	U	50	18	ug/L			10/24/23 21:31	10
1,2-Dibromoethane (EDB)	3.3	U	10	3.3	ug/L			10/24/23 21:31	10
1,2-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/24/23 21:31	10
1,2-Dichloroethane	2.5	U	10	2.5	ug/L			10/24/23 21:31	10
1,2-Dichloropropane	2.2	U	10	2.2	ug/L			10/24/23 21:31	10
1,3-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/24/23 21:31	10
1,4-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/24/23 21:31	10
2-Butanone (MEK)	64	U J3	100	64	ug/L			10/24/23 21:31	10
2-Hexanone	32	U	100	32	ug/L			10/24/23 21:31	10
4-Methyl-2-pentanone	27	U	100	27	ug/L			10/24/23 21:31	10
Acetone	37	U	100	37	ug/L			10/24/23 21:31	10
Benzene	2.7	U	10	2.7	ug/L			10/24/23 21:31	10
Bromodichloromethane	2.5	U	10	2.5	ug/L			10/24/23 21:31	10
Bromoform	5.9	U	10	5.9	ug/L			10/24/23 21:31	10
Bromomethane	37	U	50	37	ug/L			10/24/23 21:31	10
Carbon disulfide	4.3	U	20	4.3	ug/L			10/24/23 21:31	10
Carbon tetrachloride	3.0	U	10	3.0	ug/L			10/24/23 21:31	10
Chlorobenzene	1.5	U	10	1.5	ug/L			10/24/23 21:31	10
Chloroethane	46	U	50	46	ug/L			10/24/23 21:31	10
Chloroform	2.7	U	10	2.7	ug/L			10/24/23 21:31	10
Chloromethane	5.4	U	10	5.4	ug/L			10/24/23 21:31	10
cis-1,2-Dichloroethene	**160**		10	2.5	ug/L			10/24/23 21:31	10
cis-1,3-Dichloropropene	2.6	U	10	2.6	ug/L			10/24/23 21:31	10
Cyclohexane	2.8	U	10	2.8	ug/L			10/24/23 21:31	10
Dibromochloromethane	3.9	U	10	3.9	ug/L			10/24/23 21:31	10
Dichlorodifluoromethane	3.6	U	10	3.6	ug/L			10/24/23 21:31	10
Ethylbenzene	2.0	U	10	2.0	ug/L			10/24/23 21:31	10
Isopropylbenzene	2.6	U	10	2.6	ug/L			10/24/23 21:31	10
m,p-Xylenes	4.9	U	10	4.9	ug/L			10/24/23 21:31	10
Methyl acetate	32	U	50	32	ug/L			10/24/23 21:31	10
Methyl tert-butyl ether	8.1	U	50	8.1	ug/L			10/24/23 21:31	10
Methylene Chloride	32	U	50	32	ug/L			10/24/23 21:31	10

Client Sample ID: LC34-DPT0993-013.0-20231017
Lab Sample ID: 670-28817-28

Date Collected: 10/17/23 10:20
Matrix: Water
Date Received: 10/18/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	2.6	U	10	2.6	ug/L			10/24/23 21:31	10
Styrene	2.7	U	10	2.7	ug/L			10/24/23 21:31	10
Tetrachloroethene	3.5	U	10	3.5	ug/L			10/24/23 21:31	10
Toluene	2.5	U	10	2.5	ug/L			10/24/23 21:31	10
trans-1,2-Dichloroethene	3.4	U	10	3.4	ug/L			10/24/23 21:31	10
trans-1,3-Dichloropropene	2.3	U	10	2.3	ug/L			10/24/23 21:31	10
Trichloroethene	2.0	U	10	2.0	ug/L			10/24/23 21:31	10
Trichlorofluoromethane	3.3	U J3	10	3.3	ug/L			10/24/23 21:31	10
Vinyl chloride	**280**		10	4.0	ug/L			10/24/23 21:31	10
Xylenes, Total	2.3	U	10	2.3	ug/L			10/24/23 21:31	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*		*10/24/23 21:31*	*10*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*		*10/24/23 21:31*	*10*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*10/24/23 21:31*	*10*
Toluene-d8 (Surr)	*99*		*70 - 130*		*10/24/23 21:31*	*10*

Client Sample ID: LC34-DPT0993-018.0-20231017
Lab Sample ID: 670-28817-29

Date Collected: 10/17/23 10:35
Matrix: Water
Date Received: 10/18/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2.1	U	10	2.1	ug/L			10/22/23 18:30	10
1,1,2,2-Tetrachloroethane	4.0	U	10	4.0	ug/L			10/22/23 18:30	10
1,1,2-Trichloro-1,2,2-trifluoroethane	2.3	U	10	2.3	ug/L			10/22/23 18:30	10
1,1,2-Trichloroethane	3.2	U	10	3.2	ug/L			10/22/23 18:30	10
1,1-Dichloroethane	3.3	U	10	3.3	ug/L			10/22/23 18:30	10
1,1-Dichloroethene	3.3	U	10	3.3	ug/L			10/22/23 18:30	10
1,2,4-Trichlorobenzene	5.3	U J3	50	5.3	ug/L			10/22/23 18:30	10
1,2-Dibromo-3-Chloropropane	18	U J3	50	18	ug/L			10/22/23 18:30	10
1,2-Dibromoethane (EDB)	3.3	U	10	3.3	ug/L			10/22/23 18:30	10
1,2-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/22/23 18:30	10
1,2-Dichloroethane	2.5	U	10	2.5	ug/L			10/22/23 18:30	10
1,2-Dichloropropane	2.2	U	10	2.2	ug/L			10/22/23 18:30	10
1,3-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/22/23 18:30	10
1,4-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/22/23 18:30	10
2-Butanone (MEK)	64	U	100	64	ug/L			10/22/23 18:30	10
2-Hexanone	32	U	100	32	ug/L			10/22/23 18:30	10
4-Methyl-2-pentanone	27	U	100	27	ug/L			10/22/23 18:30	10
Acetone	37	U	100	37	ug/L			10/22/23 18:30	10
Benzene	2.7	U	10	2.7	ug/L			10/22/23 18:30	10
Bromodichloromethane	2.5	U	10	2.5	ug/L			10/22/23 18:30	10
Bromoform	5.9	U	10	5.9	ug/L			10/22/23 18:30	10
Bromomethane	37	U	50	37	ug/L			10/22/23 18:30	10
Carbon disulfide	4.3	U	20	4.3	ug/L			10/22/23 18:30	10
Carbon tetrachloride	3.0	U	10	3.0	ug/L			10/22/23 18:30	10
Chlorobenzene	1.5	U	10	1.5	ug/L			10/22/23 18:30	10
Chloroethane	46	U	50	46	ug/L			10/22/23 18:30	10
Chloroform	2.7	U	10	2.7	ug/L			10/22/23 18:30	10

Client Sample ID: LC34-DPT0993-018.0-20231017
Lab Sample ID: 670-28817-29

Date Collected: 10/17/23 10:35
Matrix: Water
Date Received: 10/18/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	5.4	U	10	5.4	ug/L			10/22/23 18:30	10
cis-1,2-Dichloroethene	**1100**		10	2.5	ug/L			10/22/23 18:30	10
cis-1,3-Dichloropropene	2.6	U	10	2.6	ug/L			10/22/23 18:30	10
Cyclohexane	2.8	U	10	2.8	ug/L			10/22/23 18:30	10
Dibromochloromethane	3.9	U	10	3.9	ug/L			10/22/23 18:30	10
Dichlorodifluoromethane	3.6	U	10	3.6	ug/L			10/22/23 18:30	10
Ethylbenzene	2.0	U	10	2.0	ug/L			10/22/23 18:30	10
Isopropylbenzene	2.6	U	10	2.6	ug/L			10/22/23 18:30	10
m,p-Xylenes	4.9	U	10	4.9	ug/L			10/22/23 18:30	10
Methyl acetate	32	U	50	32	ug/L			10/22/23 18:30	10
Methyl tert-butyl ether	8.1	U	50	8.1	ug/L			10/22/23 18:30	10
Methylene Chloride	32	U	50	32	ug/L			10/22/23 18:30	10
o-Xylene	2.6	U	10	2.6	ug/L			10/22/23 18:30	10
Styrene	2.7	U	10	2.7	ug/L			10/22/23 18:30	10
Tetrachloroethene	3.5	U	10	3.5	ug/L			10/22/23 18:30	10
Toluene	2.5	U	10	2.5	ug/L			10/22/23 18:30	10
trans-1,2-Dichloroethene	**8.8**	**I**	10	3.4	ug/L			10/22/23 18:30	10
trans-1,3-Dichloropropene	2.3	U	10	2.3	ug/L			10/22/23 18:30	10
Trichloroethene	2.0	U	10	2.0	ug/L			10/22/23 18:30	10
Trichlorofluoromethane	3.3	U	10	3.3	ug/L			10/22/23 18:30	10
Vinyl chloride	**540**		10	4.0	ug/L			10/22/23 18:30	10
Xylenes, Total	2.3	U	10	2.3	ug/L			10/22/23 18:30	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*		*10/22/23 18:30*	*10*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/22/23 18:30*	*10*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*10/22/23 18:30*	*10*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/22/23 18:30*	*10*

Client Sample ID: LC34-DPT0993-025.0-20231017
Lab Sample ID: 670-28817-30

Date Collected: 10/17/23 10:50
Matrix: Water
Date Received: 10/18/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2.1	U	10	2.1	ug/L			10/22/23 18:51	10
1,1,2,2-Tetrachloroethane	4.0	U	10	4.0	ug/L			10/22/23 18:51	10
1,1,2-Trichloro-1,2,2-trifluoroethane	2.3	U	10	2.3	ug/L			10/22/23 18:51	10
1,1,2-Trichloroethane	3.2	U	10	3.2	ug/L			10/22/23 18:51	10
1,1-Dichloroethane	3.3	U	10	3.3	ug/L			10/22/23 18:51	10
1,1-Dichloroethene	3.3	U	10	3.3	ug/L			10/22/23 18:51	10
1,2,4-Trichlorobenzene	5.3	U J3	50	5.3	ug/L			10/22/23 18:51	10
1,2-Dibromo-3-Chloropropane	18	U J3	50	18	ug/L			10/22/23 18:51	10
1,2-Dibromoethane (EDB)	3.3	U	10	3.3	ug/L			10/22/23 18:51	10
1,2-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/22/23 18:51	10
1,2-Dichloroethane	2.5	U	10	2.5	ug/L			10/22/23 18:51	10
1,2-Dichloropropane	2.2	U	10	2.2	ug/L			10/22/23 18:51	10
1,3-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/22/23 18:51	10
1,4-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/22/23 18:51	10
2-Butanone (MEK)	64	U	100	64	ug/L			10/22/23 18:51	10

Client Sample ID: LC34-DPT0993-025.0-20231017
Lab Sample ID: 670-28817-30

Date Collected: 10/17/23 10:50
Matrix: Water
Date Received: 10/18/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	32	U	100	32	ug/L			10/22/23 18:51	10
4-Methyl-2-pentanone	27	U	100	27	ug/L			10/22/23 18:51	10
Acetone	37	U	100	37	ug/L			10/22/23 18:51	10
Benzene	2.7	U	10	2.7	ug/L			10/22/23 18:51	10
Bromodichloromethane	2.5	U	10	2.5	ug/L			10/22/23 18:51	10
Bromoform	5.9	U	10	5.9	ug/L			10/22/23 18:51	10
Bromomethane	37	U	50	37	ug/L			10/22/23 18:51	10
Carbon disulfide	4.3	U	20	4.3	ug/L			10/22/23 18:51	10
Carbon tetrachloride	3.0	U	10	3.0	ug/L			10/22/23 18:51	10
Chlorobenzene	1.5	U	10	1.5	ug/L			10/22/23 18:51	10
Chloroethane	46	U	50	46	ug/L			10/22/23 18:51	10
Chloroform	2.7	U	10	2.7	ug/L			10/22/23 18:51	10
Chloromethane	5.4	U	10	5.4	ug/L			10/22/23 18:51	10
cis-1,2-Dichloroethene	**1200**		10	2.5	ug/L			10/22/23 18:51	10
cis-1,3-Dichloropropene	2.6	U	10	2.6	ug/L			10/22/23 18:51	10
Cyclohexane	2.8	U	10	2.8	ug/L			10/22/23 18:51	10
Dibromochloromethane	3.9	U	10	3.9	ug/L			10/22/23 18:51	10
Dichlorodifluoromethane	3.6	U	10	3.6	ug/L			10/22/23 18:51	10
Ethylbenzene	2.0	U	10	2.0	ug/L			10/22/23 18:51	10
Isopropylbenzene	2.6	U	10	2.6	ug/L			10/22/23 18:51	10
m,p-Xylenes	4.9	U	10	4.9	ug/L			10/22/23 18:51	10
Methyl acetate	32	U	50	32	ug/L			10/22/23 18:51	10
Methyl tert-butyl ether	8.1	U	50	8.1	ug/L			10/22/23 18:51	10
Methylene Chloride	32	U	50	32	ug/L			10/22/23 18:51	10
o-Xylene	2.6	U	10	2.6	ug/L			10/22/23 18:51	10
Styrene	2.7	U	10	2.7	ug/L			10/22/23 18:51	10
Tetrachloroethene	3.5	U	10	3.5	ug/L			10/22/23 18:51	10
Toluene	2.5	U	10	2.5	ug/L			10/22/23 18:51	10
trans-1,2-Dichloroethene	3.4	U	10	3.4	ug/L			10/22/23 18:51	10
trans-1,3-Dichloropropene	2.3	U	10	2.3	ug/L			10/22/23 18:51	10
Trichloroethene	2.0	U	10	2.0	ug/L			10/22/23 18:51	10
Trichlorofluoromethane	3.3	U	10	3.3	ug/L			10/22/23 18:51	10
Vinyl chloride	**300**		10	4.0	ug/L			10/22/23 18:51	10
Xylenes, Total	2.3	U	10	2.3	ug/L			10/22/23 18:51	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*		*10/22/23 18:51*	*10*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*10/22/23 18:51*	*10*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*10/22/23 18:51*	*10*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/22/23 18:51*	*10*

Client Sample ID: LC34-DPT0993-034.0-20231017
Lab Sample ID: 670-28817-31

Date Collected: 10/17/23 11:10
Matrix: Water
Date Received: 10/18/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/22/23 19:27	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/22/23 19:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/22/23 19:27	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28817-1

Client Sample ID: LC34-DPT0993-034.0-20231017
Date Collected: 10/17/23 11:10
Date Received: 10/18/23 08:00

Lab Sample ID: 670-28817-31
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/22/23 19:27	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/22/23 19:27	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/22/23 19:27	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/22/23 19:27	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/22/23 19:27	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/22/23 19:27	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/22/23 19:27	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/22/23 19:27	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/22/23 19:27	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/22/23 19:27	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/22/23 19:27	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/22/23 19:27	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/22/23 19:27	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/22/23 19:27	1
Acetone	3.7	U	10	3.7	ug/L			10/22/23 19:27	1
Benzene	0.27	U	1.0	0.27	ug/L			10/22/23 19:27	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/22/23 19:27	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/22/23 19:27	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/22/23 19:27	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/22/23 19:27	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/22/23 19:27	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/22/23 19:27	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/22/23 19:27	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/22/23 19:27	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/22/23 19:27	1
cis-1,2-Dichloroethene	**130**		1.0	0.25	ug/L			10/22/23 19:27	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/22/23 19:27	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/22/23 19:27	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/22/23 19:27	1
Dichlorodifluoromethane	0.36	U J3	1.0	0.36	ug/L			10/22/23 19:27	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/22/23 19:27	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/22/23 19:27	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/22/23 19:27	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/22/23 19:27	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/22/23 19:27	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/22/23 19:27	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/22/23 19:27	1
Styrene	0.27	U	1.0	0.27	ug/L			10/22/23 19:27	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/22/23 19:27	1
Toluene	**1.6**		1.0	0.25	ug/L			10/22/23 19:27	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/22/23 19:27	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/22/23 19:27	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/22/23 19:27	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/22/23 19:27	1
Vinyl chloride	**8.3**		1.0	0.40	ug/L			10/22/23 19:27	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/22/23 19:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*60 - 124*		*10/22/23 19:27*	*1*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*		*10/22/23 19:27*	*1*

Client Sample ID: LC34-DPT0993-034.0-20231017
Lab Sample ID: 670-28817-31

Date Collected: 10/17/23 11:10
Matrix: Water
Date Received: 10/18/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*10/22/23 19:27*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*10/22/23 19:27*	*1*

Client Sample ID: LC34-DPT0993-038.0-20231017
Lab Sample ID: 670-28817-32

Date Collected: 10/17/23 11:30
Matrix: Water
Date Received: 10/18/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/22/23 19:49	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/22/23 19:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/22/23 19:49	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/22/23 19:49	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/22/23 19:49	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/22/23 19:49	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/22/23 19:49	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/22/23 19:49	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/22/23 19:49	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/22/23 19:49	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/22/23 19:49	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/22/23 19:49	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/22/23 19:49	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/22/23 19:49	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/22/23 19:49	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/22/23 19:49	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/22/23 19:49	1
Acetone	3.7	U	10	3.7	ug/L			10/22/23 19:49	1
Benzene	0.27	U	1.0	0.27	ug/L			10/22/23 19:49	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/22/23 19:49	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/22/23 19:49	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/22/23 19:49	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/22/23 19:49	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/22/23 19:49	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/22/23 19:49	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/22/23 19:49	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/22/23 19:49	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/22/23 19:49	1
cis-1,2-Dichloroethene	**0.67**	**I**	1.0	0.25	ug/L			10/22/23 19:49	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/22/23 19:49	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/22/23 19:49	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/22/23 19:49	1
Dichlorodifluoromethane	0.36	U J3	1.0	0.36	ug/L			10/22/23 19:49	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/22/23 19:49	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/22/23 19:49	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/22/23 19:49	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/22/23 19:49	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/22/23 19:49	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/22/23 19:49	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/22/23 19:49	1

Client Sample ID: LC34-DPT0993-038.0-20231017
Lab Sample ID: 670-28817-32

Date Collected: 10/17/23 11:30
Matrix: Water
Date Received: 10/18/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.27	U	1.0	0.27	ug/L			10/22/23 19:49	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/22/23 19:49	1
Toluene	**0.42**	**I**	1.0	0.25	ug/L			10/22/23 19:49	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/22/23 19:49	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/22/23 19:49	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/22/23 19:49	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/22/23 19:49	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/22/23 19:49	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/22/23 19:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*		*10/22/23 19:49*	*1*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*		*10/22/23 19:49*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*10/22/23 19:49*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*10/22/23 19:49*	*1*

Client Sample ID: LC34-DPT0994-008.0-20231017
Lab Sample ID: 670-28817-33

Date Collected: 10/17/23 12:45
Matrix: Water
Date Received: 10/18/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	5.0	1.1	ug/L			10/24/23 21:50	5
1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	ug/L			10/24/23 21:50	5
1,1,2-Trichloro-1,2,2-trifluoroethane	1.2	U	5.0	1.2	ug/L			10/24/23 21:50	5
1,1,2-Trichloroethane	1.6	U	5.0	1.6	ug/L			10/24/23 21:50	5
1,1-Dichloroethane	1.7	U	5.0	1.7	ug/L			10/24/23 21:50	5
1,1-Dichloroethene	1.7	U	5.0	1.7	ug/L			10/24/23 21:50	5
1,2,4-Trichlorobenzene	2.7	U	25	2.7	ug/L			10/24/23 21:50	5
1,2-Dibromo-3-Chloropropane	9.0	U	25	9.0	ug/L			10/24/23 21:50	5
1,2-Dibromoethane (EDB)	1.7	U	5.0	1.7	ug/L			10/24/23 21:50	5
1,2-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/24/23 21:50	5
1,2-Dichloroethane	1.3	U	5.0	1.3	ug/L			10/24/23 21:50	5
1,2-Dichloropropane	1.1	U	5.0	1.1	ug/L			10/24/23 21:50	5
1,3-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/24/23 21:50	5
1,4-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/24/23 21:50	5
2-Butanone (MEK)	32	U J3	50	32	ug/L			10/24/23 21:50	5
2-Hexanone	16	U	50	16	ug/L			10/24/23 21:50	5
4-Methyl-2-pentanone	14	U	50	14	ug/L			10/24/23 21:50	5
Acetone	19	U	50	19	ug/L			10/24/23 21:50	5
Benzene	1.4	U	5.0	1.4	ug/L			10/24/23 21:50	5
Bromodichloromethane	1.3	U	5.0	1.3	ug/L			10/24/23 21:50	5
Bromoform	3.0	U	5.0	3.0	ug/L			10/24/23 21:50	5
Bromomethane	19	U	25	19	ug/L			10/24/23 21:50	5
Carbon disulfide	2.2	U	10	2.2	ug/L			10/24/23 21:50	5
Carbon tetrachloride	1.5	U	5.0	1.5	ug/L			10/24/23 21:50	5
Chlorobenzene	0.75	U	5.0	0.75	ug/L			10/24/23 21:50	5
Chloroethane	23	U	25	23	ug/L			10/24/23 21:50	5
Chloroform	1.4	U	5.0	1.4	ug/L			10/24/23 21:50	5
Chloromethane	2.7	U	5.0	2.7	ug/L			10/24/23 21:50	5

Client Sample ID: LC34-DPT0994-008.0-20231017
Lab Sample ID: 670-28817-33

Date Collected: 10/17/23 12:45
Matrix: Water
Date Received: 10/18/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**91**		5.0	1.3	ug/L			10/24/23 21:50	5
cis-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			10/24/23 21:50	5
Cyclohexane	1.4	U	5.0	1.4	ug/L			10/24/23 21:50	5
Dibromochloromethane	2.0	U	5.0	2.0	ug/L			10/24/23 21:50	5
Dichlorodifluoromethane	1.8	U	5.0	1.8	ug/L			10/24/23 21:50	5
Ethylbenzene	1.0	U	5.0	1.0	ug/L			10/24/23 21:50	5
Isopropylbenzene	1.3	U	5.0	1.3	ug/L			10/24/23 21:50	5
m,p-Xylenes	2.5	U	5.0	2.5	ug/L			10/24/23 21:50	5
Methyl acetate	16	U	25	16	ug/L			10/24/23 21:50	5
Methyl tert-butyl ether	4.1	U	25	4.1	ug/L			10/24/23 21:50	5
Methylene Chloride	16	U	25	16	ug/L			10/24/23 21:50	5
o-Xylene	1.3	U	5.0	1.3	ug/L			10/24/23 21:50	5
Styrene	1.4	U	5.0	1.4	ug/L			10/24/23 21:50	5
Tetrachloroethene	1.8	U	5.0	1.8	ug/L			10/24/23 21:50	5
Toluene	1.3	U	5.0	1.3	ug/L			10/24/23 21:50	5
trans-1,2-Dichloroethene	**3.9**	**I**	5.0	1.7	ug/L			10/24/23 21:50	5
trans-1,3-Dichloropropene	1.2	U	5.0	1.2	ug/L			10/24/23 21:50	5
Trichloroethene	**200**		5.0	1.0	ug/L			10/24/23 21:50	5
Trichlorofluoromethane	1.7	U J3	5.0	1.7	ug/L			10/24/23 21:50	5
Vinyl chloride	2.0	U	5.0	2.0	ug/L			10/24/23 21:50	5
Xylenes, Total	1.2	U	5.0	1.2	ug/L			10/24/23 21:50	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 124*		*10/24/23 21:50*	*5*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/24/23 21:50*	*5*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*10/24/23 21:50*	*5*
Toluene-d8 (Surr)	*104*		*70 - 130*		*10/24/23 21:50*	*5*

Client Sample ID: LC34-DPT0994-013.0-20231017
Lab Sample ID: 670-28817-34

Date Collected: 10/17/23 13:00
Matrix: Water
Date Received: 10/18/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.42	U	2.0	0.42	ug/L			10/22/23 15:38	2
1,1,2,2-Tetrachloroethane	0.80	U	2.0	0.80	ug/L			10/22/23 15:38	2
1,1,2-Trichloro-1,2,2-trifluoroethane	0.46	U	2.0	0.46	ug/L			10/22/23 15:38	2
1,1,2-Trichloroethane	0.64	U	2.0	0.64	ug/L			10/22/23 15:38	2
1,1-Dichloroethane	0.66	U	2.0	0.66	ug/L			10/22/23 15:38	2
1,1-Dichloroethene	0.66	U	2.0	0.66	ug/L			10/22/23 15:38	2
1,2,4-Trichlorobenzene	1.1	U J3	10	1.1	ug/L			10/22/23 15:38	2
1,2-Dibromo-3-Chloropropane	3.6	U J3	10	3.6	ug/L			10/22/23 15:38	2
1,2-Dibromoethane (EDB)	0.66	U	2.0	0.66	ug/L			10/22/23 15:38	2
1,2-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/22/23 15:38	2
1,2-Dichloroethane	0.50	U	2.0	0.50	ug/L			10/22/23 15:38	2
1,2-Dichloropropane	0.44	U	2.0	0.44	ug/L			10/22/23 15:38	2
1,3-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/22/23 15:38	2
1,4-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/22/23 15:38	2
2-Butanone (MEK)	13	U	20	13	ug/L			10/22/23 15:38	2
2-Hexanone	6.4	U	20	6.4	ug/L			10/22/23 15:38	2

Client Sample ID: LC34-DPT0994-013.0-20231017
Lab Sample ID: 670-28817-34

Date Collected: 10/17/23 13:00
Matrix: Water
Date Received: 10/18/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone	5.4	U	20	5.4	ug/L			10/22/23 15:38	2
Acetone	7.4	U	20	7.4	ug/L			10/22/23 15:38	2
Benzene	0.54	U	2.0	0.54	ug/L			10/22/23 15:38	2
Bromodichloromethane	0.50	U	2.0	0.50	ug/L			10/22/23 15:38	2
Bromoform	1.2	U	2.0	1.2	ug/L			10/22/23 15:38	2
Bromomethane	7.4	U	10	7.4	ug/L			10/22/23 15:38	2
Carbon disulfide	0.86	U	4.0	0.86	ug/L			10/22/23 15:38	2
Carbon tetrachloride	0.60	U	2.0	0.60	ug/L			10/22/23 15:38	2
Chlorobenzene	0.30	U	2.0	0.30	ug/L			10/22/23 15:38	2
Chloroethane	9.2	U	10	9.2	ug/L			10/22/23 15:38	2
Chloroform	0.54	U	2.0	0.54	ug/L			10/22/23 15:38	2
Chloromethane	1.1	U	2.0	1.1	ug/L			10/22/23 15:38	2
cis-1,2-Dichloroethene	**66**		2.0	0.50	ug/L			10/22/23 15:38	2
cis-1,3-Dichloropropene	0.52	U	2.0	0.52	ug/L			10/22/23 15:38	2
Cyclohexane	0.56	U	2.0	0.56	ug/L			10/22/23 15:38	2
Dibromochloromethane	0.78	U	2.0	0.78	ug/L			10/22/23 15:38	2
Dichlorodifluoromethane	0.72	U	2.0	0.72	ug/L			10/22/23 15:38	2
Ethylbenzene	0.40	U	2.0	0.40	ug/L			10/22/23 15:38	2
Isopropylbenzene	0.52	U	2.0	0.52	ug/L			10/22/23 15:38	2
m,p-Xylenes	0.98	U	2.0	0.98	ug/L			10/22/23 15:38	2
Methyl acetate	6.4	U	10	6.4	ug/L			10/22/23 15:38	2
Methyl tert-butyl ether	1.6	U	10	1.6	ug/L			10/22/23 15:38	2
Methylene Chloride	6.4	U	10	6.4	ug/L			10/22/23 15:38	2
o-Xylene	0.52	U	2.0	0.52	ug/L			10/22/23 15:38	2
Styrene	0.54	U	2.0	0.54	ug/L			10/22/23 15:38	2
Tetrachloroethene	0.70	U	2.0	0.70	ug/L			10/22/23 15:38	2
Toluene	0.50	U	2.0	0.50	ug/L			10/22/23 15:38	2
trans-1,2-Dichloroethene	0.68	U	2.0	0.68	ug/L			10/22/23 15:38	2
trans-1,3-Dichloropropene	0.46	U	2.0	0.46	ug/L			10/22/23 15:38	2
Trichloroethene	**83**		2.0	0.40	ug/L			10/22/23 15:38	2
Trichlorofluoromethane	0.66	U	2.0	0.66	ug/L			10/22/23 15:38	2
Vinyl chloride	**10**		2.0	0.80	ug/L			10/22/23 15:38	2
Xylenes, Total	0.46	U	2.0	0.46	ug/L			10/22/23 15:38	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*60 - 124*		*10/22/23 15:38*	*2*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*10/22/23 15:38*	*2*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*10/22/23 15:38*	*2*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/22/23 15:38*	*2*

Client Sample ID: LC34-DPT0994-018.0-20231017
Lab Sample ID: 670-28817-35

Date Collected: 10/17/23 13:10
Matrix: Water
Date Received: 10/18/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/22/23 20:34	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/22/23 20:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/22/23 20:34	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/22/23 20:34	1

Client Sample ID: LC34-DPT0994-018.0-20231017
Lab Sample ID: 670-28817-35
Date Collected: 10/17/23 13:10
Matrix: Water
Date Received: 10/18/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/22/23 20:34	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/22/23 20:34	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/22/23 20:34	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/22/23 20:34	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/22/23 20:34	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/22/23 20:34	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/22/23 20:34	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/22/23 20:34	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/22/23 20:34	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/22/23 20:34	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/22/23 20:34	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/22/23 20:34	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/22/23 20:34	1
Acetone	3.7	U	10	3.7	ug/L			10/22/23 20:34	1
Benzene	0.27	U	1.0	0.27	ug/L			10/22/23 20:34	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/22/23 20:34	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/22/23 20:34	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/22/23 20:34	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/22/23 20:34	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/22/23 20:34	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/22/23 20:34	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/22/23 20:34	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/22/23 20:34	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/22/23 20:34	1
cis-1,2-Dichloroethene	**2.4**		1.0	0.25	ug/L			10/22/23 20:34	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/22/23 20:34	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/22/23 20:34	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/22/23 20:34	1
Dichlorodifluoromethane	0.36	U J3	1.0	0.36	ug/L			10/22/23 20:34	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/22/23 20:34	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/22/23 20:34	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/22/23 20:34	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/22/23 20:34	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/22/23 20:34	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/22/23 20:34	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/22/23 20:34	1
Styrene	0.27	U	1.0	0.27	ug/L			10/22/23 20:34	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/22/23 20:34	1
Toluene	0.25	U	1.0	0.25	ug/L			10/22/23 20:34	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/22/23 20:34	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/22/23 20:34	1
Trichloroethene	**0.68**	**I**	1.0	0.20	ug/L			10/22/23 20:34	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/22/23 20:34	1
Vinyl chloride	**42**		1.0	0.40	ug/L			10/22/23 20:34	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/22/23 20:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*60 - 124*		*10/22/23 20:34*	*1*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*10/22/23 20:34*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*10/22/23 20:34*	*1*

Client Sample ID: LC34-DPT0994-018.0-20231017
Lab Sample ID: 670-28817-35

Date Collected: 10/17/23 13:10
Matrix: Water
Date Received: 10/18/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		70 - 130		10/22/23 20:34	1

Client Sample ID: LC34-DPT0994-025.0-20231017
Lab Sample ID: 670-28817-36

Date Collected: 10/17/23 13:25
Matrix: Water
Date Received: 10/18/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2.1	U	10	2.1	ug/L			10/22/23 19:12	10
1,1,2,2-Tetrachloroethane	4.0	U	10	4.0	ug/L			10/22/23 19:12	10
1,1,2-Trichloro-1,2,2-trifluoroethane	2.3	U	10	2.3	ug/L			10/22/23 19:12	10
1,1,2-Trichloroethane	3.2	U	10	3.2	ug/L			10/22/23 19:12	10
1,1-Dichloroethane	3.3	U	10	3.3	ug/L			10/22/23 19:12	10
1,1-Dichloroethene	3.3	U	10	3.3	ug/L			10/22/23 19:12	10
1,2,4-Trichlorobenzene	5.3	U J3	50	5.3	ug/L			10/22/23 19:12	10
1,2-Dibromo-3-Chloropropane	18	U J3	50	18	ug/L			10/22/23 19:12	10
1,2-Dibromoethane (EDB)	3.3	U	10	3.3	ug/L			10/22/23 19:12	10
1,2-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/22/23 19:12	10
1,2-Dichloroethane	2.5	U	10	2.5	ug/L			10/22/23 19:12	10
1,2-Dichloropropane	2.2	U	10	2.2	ug/L			10/22/23 19:12	10
1,3-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/22/23 19:12	10
1,4-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/22/23 19:12	10
2-Butanone (MEK)	64	U	100	64	ug/L			10/22/23 19:12	10
2-Hexanone	32	U	100	32	ug/L			10/22/23 19:12	10
4-Methyl-2-pentanone	27	U	100	27	ug/L			10/22/23 19:12	10
Acetone	37	U	100	37	ug/L			10/22/23 19:12	10
Benzene	2.7	U	10	2.7	ug/L			10/22/23 19:12	10
Bromodichloromethane	2.5	U	10	2.5	ug/L			10/22/23 19:12	10
Bromoform	5.9	U	10	5.9	ug/L			10/22/23 19:12	10
Bromomethane	37	U	50	37	ug/L			10/22/23 19:12	10
Carbon disulfide	4.3	U	20	4.3	ug/L			10/22/23 19:12	10
Carbon tetrachloride	3.0	U	10	3.0	ug/L			10/22/23 19:12	10
Chlorobenzene	1.5	U	10	1.5	ug/L			10/22/23 19:12	10
Chloroethane	46	U	50	46	ug/L			10/22/23 19:12	10
Chloroform	2.7	U	10	2.7	ug/L			10/22/23 19:12	10
Chloromethane	5.4	U	10	5.4	ug/L			10/22/23 19:12	10
cis-1,2-Dichloroethene	**9.6**	**I**	10	2.5	ug/L			10/22/23 19:12	10
cis-1,3-Dichloropropene	2.6	U	10	2.6	ug/L			10/22/23 19:12	10
Cyclohexane	2.8	U	10	2.8	ug/L			10/22/23 19:12	10
Dibromochloromethane	3.9	U	10	3.9	ug/L			10/22/23 19:12	10
Dichlorodifluoromethane	3.6	U	10	3.6	ug/L			10/22/23 19:12	10
Ethylbenzene	2.0	U	10	2.0	ug/L			10/22/23 19:12	10
Isopropylbenzene	2.6	U	10	2.6	ug/L			10/22/23 19:12	10
m,p-Xylenes	4.9	U	10	4.9	ug/L			10/22/23 19:12	10
Methyl acetate	32	U	50	32	ug/L			10/22/23 19:12	10
Methyl tert-butyl ether	8.1	U	50	8.1	ug/L			10/22/23 19:12	10
Methylene Chloride	32	U	50	32	ug/L			10/22/23 19:12	10
o-Xylene	2.6	U	10	2.6	ug/L			10/22/23 19:12	10
Styrene	2.7	U	10	2.7	ug/L			10/22/23 19:12	10

Client Sample ID: LC34-DPT0994-025.0-20231017
Lab Sample ID: 670-28817-36

Date Collected: 10/17/23 13:25
Matrix: Water
Date Received: 10/18/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	3.5	U	10	3.5	ug/L			10/22/23 19:12	10
Toluene	2.5	U	10	2.5	ug/L			10/22/23 19:12	10
trans-1,2-Dichloroethene	**10**		10	3.4	ug/L			10/22/23 19:12	10
trans-1,3-Dichloropropene	2.3	U	10	2.3	ug/L			10/22/23 19:12	10
Trichloroethene	2.0	U	10	2.0	ug/L			10/22/23 19:12	10
Trichlorofluoromethane	3.3	U	10	3.3	ug/L			10/22/23 19:12	10
Vinyl chloride	**1600**		10	4.0	ug/L			10/22/23 19:12	10
Xylenes, Total	2.3	U	10	2.3	ug/L			10/22/23 19:12	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*		*10/22/23 19:12*	*10*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*10/22/23 19:12*	*10*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*10/22/23 19:12*	*10*
Toluene-d8 (Surr)	*98*		*70 - 130*		*10/22/23 19:12*	*10*

Client Sample ID: LC34-DPT0994-034.0-20231017
Lab Sample ID: 670-28817-37

Date Collected: 10/17/23 13:45
Matrix: Water
Date Received: 10/18/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	11	U	50	11	ug/L			10/22/23 21:20	50
1,1,2,2-Tetrachloroethane	20	U	50	20	ug/L			10/22/23 21:20	50
1,1,2-Trichloro-1,2,2-trifluoroethane	12	U	50	12	ug/L			10/22/23 21:20	50
1,1,2-Trichloroethane	16	U	50	16	ug/L			10/22/23 21:20	50
1,1-Dichloroethane	17	U	50	17	ug/L			10/22/23 21:20	50
1,1-Dichloroethene	17	U	50	17	ug/L			10/22/23 21:20	50
1,2,4-Trichlorobenzene	27	U J3	250	27	ug/L			10/22/23 21:20	50
1,2-Dibromo-3-Chloropropane	90	U J3	250	90	ug/L			10/22/23 21:20	50
1,2-Dibromoethane (EDB)	17	U	50	17	ug/L			10/22/23 21:20	50
1,2-Dichlorobenzene	16	U	50	16	ug/L			10/22/23 21:20	50
1,2-Dichloroethane	13	U	50	13	ug/L			10/22/23 21:20	50
1,2-Dichloropropane	11	U	50	11	ug/L			10/22/23 21:20	50
1,3-Dichlorobenzene	16	U	50	16	ug/L			10/22/23 21:20	50
1,4-Dichlorobenzene	16	U	50	16	ug/L			10/22/23 21:20	50
2-Butanone (MEK)	320	U	500	320	ug/L			10/22/23 21:20	50
2-Hexanone	160	U	500	160	ug/L			10/22/23 21:20	50
4-Methyl-2-pentanone	140	U	500	140	ug/L			10/22/23 21:20	50
Acetone	190	U	500	190	ug/L			10/22/23 21:20	50
Benzene	14	U	50	14	ug/L			10/22/23 21:20	50
Bromodichloromethane	13	U	50	13	ug/L			10/22/23 21:20	50
Bromoform	30	U	50	30	ug/L			10/22/23 21:20	50
Bromomethane	190	U	250	190	ug/L			10/22/23 21:20	50
Carbon disulfide	22	U	100	22	ug/L			10/22/23 21:20	50
Carbon tetrachloride	15	U	50	15	ug/L			10/22/23 21:20	50
Chlorobenzene	7.5	U	50	7.5	ug/L			10/22/23 21:20	50
Chloroethane	230	U	250	230	ug/L			10/22/23 21:20	50
Chloroform	14	U	50	14	ug/L			10/22/23 21:20	50
Chloromethane	27	U	50	27	ug/L			10/22/23 21:20	50
cis-1,2-Dichloroethene	**23**	**I**	50	13	ug/L			10/22/23 21:20	50

Client Sample ID: LC34-DPT0994-034.0-20231017
Lab Sample ID: 670-28817-37

Date Collected: 10/17/23 13:45
Matrix: Water
Date Received: 10/18/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	13	U	50	13	ug/L			10/22/23 21:20	50
Cyclohexane	14	U	50	14	ug/L			10/22/23 21:20	50
Dibromochloromethane	20	U	50	20	ug/L			10/22/23 21:20	50
Dichlorodifluoromethane	18	U	50	18	ug/L			10/22/23 21:20	50
Ethylbenzene	10	U	50	10	ug/L			10/22/23 21:20	50
Isopropylbenzene	13	U	50	13	ug/L			10/22/23 21:20	50
m,p-Xylenes	25	U	50	25	ug/L			10/22/23 21:20	50
Methyl acetate	160	U	250	160	ug/L			10/22/23 21:20	50
Methyl tert-butyl ether	41	U	250	41	ug/L			10/22/23 21:20	50
Methylene Chloride	160	U	250	160	ug/L			10/22/23 21:20	50
o-Xylene	13	U	50	13	ug/L			10/22/23 21:20	50
Styrene	14	U	50	14	ug/L			10/22/23 21:20	50
Tetrachloroethene	18	U	50	18	ug/L			10/22/23 21:20	50
Toluene	13	U	50	13	ug/L			10/22/23 21:20	50
trans-1,2-Dichloroethene	17	U	50	17	ug/L			10/22/23 21:20	50
trans-1,3-Dichloropropene	12	U	50	12	ug/L			10/22/23 21:20	50
Trichloroethene	10	U	50	10	ug/L			10/22/23 21:20	50
Trichlorofluoromethane	17	U	50	17	ug/L			10/22/23 21:20	50
Vinyl chloride	**5700**		50	20	ug/L			10/22/23 21:20	50
Xylenes, Total	12	U	50	12	ug/L			10/22/23 21:20	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*		*10/22/23 21:20*	*50*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*10/22/23 21:20*	*50*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*10/22/23 21:20*	*50*
Toluene-d8 (Surr)	*99*		*70 - 130*		*10/22/23 21:20*	*50*

Client Sample ID: LC34-DPT0994-038.0-20231017
Lab Sample ID: 670-28817-38

Date Collected: 10/17/23 14:05
Matrix: Water
Date Received: 10/18/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	11	U	50	11	ug/L			10/22/23 20:56	50
1,1,2,2-Tetrachloroethane	20	U	50	20	ug/L			10/22/23 20:56	50
1,1,2-Trichloro-1,2,2-trifluoroethane	12	U	50	12	ug/L			10/22/23 20:56	50
1,1,2-Trichloroethane	16	U	50	16	ug/L			10/22/23 20:56	50
1,1-Dichloroethane	17	U	50	17	ug/L			10/22/23 20:56	50
1,1-Dichloroethene	17	U	50	17	ug/L			10/22/23 20:56	50
1,2,4-Trichlorobenzene	27	U	250	27	ug/L			10/22/23 20:56	50
1,2-Dibromo-3-Chloropropane	90	U	250	90	ug/L			10/22/23 20:56	50
1,2-Dibromoethane (EDB)	17	U	50	17	ug/L			10/22/23 20:56	50
1,2-Dichlorobenzene	16	U	50	16	ug/L			10/22/23 20:56	50
1,2-Dichloroethane	13	U	50	13	ug/L			10/22/23 20:56	50
1,2-Dichloropropane	11	U	50	11	ug/L			10/22/23 20:56	50
1,3-Dichlorobenzene	16	U	50	16	ug/L			10/22/23 20:56	50
1,4-Dichlorobenzene	16	U	50	16	ug/L			10/22/23 20:56	50
2-Butanone (MEK)	320	U	500	320	ug/L			10/22/23 20:56	50
2-Hexanone	160	U	500	160	ug/L			10/22/23 20:56	50
4-Methyl-2-pentanone	140	U	500	140	ug/L			10/22/23 20:56	50

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28817-1

Client Sample ID: LC34-DPT0994-038.0-20231017
Date Collected: 10/17/23 14:05
Date Received: 10/18/23 08:00

Lab Sample ID: 670-28817-38
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	190	U	500	190	ug/L			10/22/23 20:56	50
Benzene	14	U	50	14	ug/L			10/22/23 20:56	50
Bromodichloromethane	13	U	50	13	ug/L			10/22/23 20:56	50
Bromoform	30	U	50	30	ug/L			10/22/23 20:56	50
Bromomethane	190	U	250	190	ug/L			10/22/23 20:56	50
Carbon disulfide	22	U	100	22	ug/L			10/22/23 20:56	50
Carbon tetrachloride	15	U	50	15	ug/L			10/22/23 20:56	50
Chlorobenzene	7.5	U	50	7.5	ug/L			10/22/23 20:56	50
Chloroethane	230	U	250	230	ug/L			10/22/23 20:56	50
Chloroform	14	U	50	14	ug/L			10/22/23 20:56	50
Chloromethane	27	U	50	27	ug/L			10/22/23 20:56	50
cis-1,2-Dichloroethene	**15**	**I**	50	13	ug/L			10/22/23 20:56	50
cis-1,3-Dichloropropene	13	U	50	13	ug/L			10/22/23 20:56	50
Cyclohexane	14	U	50	14	ug/L			10/22/23 20:56	50
Dibromochloromethane	20	U	50	20	ug/L			10/22/23 20:56	50
Dichlorodifluoromethane	18	U J3	50	18	ug/L			10/22/23 20:56	50
Ethylbenzene	10	U	50	10	ug/L			10/22/23 20:56	50
Isopropylbenzene	13	U	50	13	ug/L			10/22/23 20:56	50
m,p-Xylenes	25	U	50	25	ug/L			10/22/23 20:56	50
Methyl acetate	160	U	250	160	ug/L			10/22/23 20:56	50
Methyl tert-butyl ether	41	U	250	41	ug/L			10/22/23 20:56	50
Methylene Chloride	160	U	250	160	ug/L			10/22/23 20:56	50
o-Xylene	13	U	50	13	ug/L			10/22/23 20:56	50
Styrene	14	U	50	14	ug/L			10/22/23 20:56	50
Tetrachloroethene	18	U	50	18	ug/L			10/22/23 20:56	50
Toluene	13	U	50	13	ug/L			10/22/23 20:56	50
trans-1,2-Dichloroethene	17	U	50	17	ug/L			10/22/23 20:56	50
trans-1,3-Dichloropropene	12	U	50	12	ug/L			10/22/23 20:56	50
Trichloroethene	**10**	**I**	50	10	ug/L			10/22/23 20:56	50
Trichlorofluoromethane	17	U	50	17	ug/L			10/22/23 20:56	50
Vinyl chloride	**4200**		50	20	ug/L			10/22/23 20:56	50
Xylenes, Total	12	U	50	12	ug/L			10/22/23 20:56	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*60 - 124*		*10/22/23 20:56*	*50*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*		*10/22/23 20:56*	*50*
Dibromofluoromethane (Surr)	*95*		*70 - 130*		*10/22/23 20:56*	*50*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/22/23 20:56*	*50*

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28817-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(60-124)	(70-130)	(70-130)	(70-130)
670-28817-1	LC34-DPT0988-008.0-20231016	93	91	96	101
670-28817-2	LC34-DPT0988-013.0-2023101 6	94	98	103	100
670-28817-3	LC34-DPT0988-018.0-2023101 6	92	99	101	98
670-28817-4	LC34-DPT0988-025.0-2023101 6	95	99	102	98
670-28817-5	LC34-DPT0988-034.0-2023101 6	93	91	96	100
670-28817-6	LC34-DPT0988-038.0-2023101 6	95	90	96	102
670-28817-7	LC34-DPT0989-008.0-2023101 6	93	91	98	101
670-28817-8	LC34-DPT0989-013.0-2023101 6	93	100	99	99
670-28817-9	LC34-DPT0989-018.0-2023101 6	94	101	103	99
670-28817-10	LC34-DPT0989-025.0-2023101 6	92	98	100	100
670-28817-11	LC34-DPT0989-034.0-2023101 6	94	91	96	101
670-28817-12	LC34-DPT0989-038.0-2023101 6	93	90	97	102
670-28817-13	LC34-DPT0990-008.0-2023101 6	94	91	97	101
670-28817-14	LC34-DPT0990-013.0-2023101 6	94	99	102	98
670-28817-15	LC34-DPT0990-018.0-2023101 6	95	100	102	98
670-28817-16	LC34-DPT0990-025.0-2023101 6	96	100	103	101
670-28817-17	LC34-DPT0990-034.0-2023101 6	93	90	97	102
670-28817-18	LC34-DPT0990-038.0-2023101 6	93	90	97	103
670-28817-19	LC34-DPT0991-008.0-2023101 6	92	91	96	100
670-28817-20	LC34-DPT0991-013.0-2023101 6	92	99	100	100
670-28817-21	LC34-DPT0992-008.0-2023101 7	93	90	98	102
670-28817-22	LC34-DPT0992-013.0-2023101 7	95	102	101	100
670-28817-23	LC34-DPT0992-018.0-2023101 7	94	98	102	98
670-28817-24	LC34-DPT0992-025.0-2023101 7	94	102	101	98
670-28817-25	LC34-DPT0992-034.0-2023101 7	84	98	94	103
670-28817-26	LC34-DPT0992-038.0-2023101 7	95	91	97	102
670-28817-27	LC34-DPT0993-008.0-2023101 7	94	92	99	101
670-28817-28	LC34-DPT0993-013.0-2023101 7	94	109	97	99

Surrogate Summary

Client: Tetra Tech, Inc. Job ID: 670-28817-1
Project/Site: NASA KSC LC34 DPT

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(60-124)	(70-130)	(70-130)	(70-130)
670-28817-29	LC34-DPT0993-018.0-20231017	94	101	103	100
670-28817-30	LC34-DPT0993-025.0-20231017	94	102	101	100
670-28817-31	LC34-DPT0993-034.0-20231017	93	91	99	102
670-28817-32	LC34-DPT0993-038.0-20231017	94	91	98	103
670-28817-33	LC34-DPT0994-008.0-20231017	97	101	100	104
670-28817-34	LC34-DPT0994-013.0-20231017	93	98	101	100
670-28817-35	LC34-DPT0994-018.0-20231017	93	92	98	102
670-28817-36	LC34-DPT0994-025.0-20231017	94	98	102	98
670-28817-37	LC34-DPT0994-034.0-20231017	95	99	102	99
670-28817-38	LC34-DPT0994-038.0-20231017	93	90	95	101
LCS 680-803934/4	Lab Control Sample	93	98	94	97
LCS 680-803944/4	Lab Control Sample	96	93	96	100
LCS 680-804277/4	Lab Control Sample	99	98	99	95
LCSD 680-803934/5	Lab Control Sample Dup	100	96	100	98
LCSD 680-803944/5	Lab Control Sample Dup	96	93	97	99
LCSD 680-804277/5	Lab Control Sample Dup	105	101	104	96
MB 680-803934/8	Method Blank	85	101	97	103
MB 680-803944/8	Method Blank	92	91	95	100
MB 680-804277/7	Method Blank	97	99	97	92

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 680-803934/8
Matrix: Water
Analysis Batch: 803934

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/22/23 13:20	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/22/23 13:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/22/23 13:20	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/22/23 13:20	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/22/23 13:20	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/22/23 13:20	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/22/23 13:20	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/22/23 13:20	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/22/23 13:20	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/22/23 13:20	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/22/23 13:20	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/22/23 13:20	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/22/23 13:20	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/22/23 13:20	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/22/23 13:20	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/22/23 13:20	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/22/23 13:20	1
Acetone	3.7	U	10	3.7	ug/L			10/22/23 13:20	1
Benzene	0.27	U	1.0	0.27	ug/L			10/22/23 13:20	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/22/23 13:20	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/22/23 13:20	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/22/23 13:20	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/22/23 13:20	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/22/23 13:20	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/22/23 13:20	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/22/23 13:20	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/22/23 13:20	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/22/23 13:20	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/22/23 13:20	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/22/23 13:20	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/22/23 13:20	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/22/23 13:20	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/22/23 13:20	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/22/23 13:20	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/22/23 13:20	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/22/23 13:20	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/22/23 13:20	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/22/23 13:20	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/22/23 13:20	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/22/23 13:20	1
Styrene	0.27	U	1.0	0.27	ug/L			10/22/23 13:20	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/22/23 13:20	1
Toluene	0.25	U	1.0	0.25	ug/L			10/22/23 13:20	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/22/23 13:20	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/22/23 13:20	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/22/23 13:20	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/22/23 13:20	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/22/23 13:20	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-803934/8
Matrix: Water
Analysis Batch: 803934

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/22/23 13:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*85*		*60 - 124*		*10/22/23 13:20*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/22/23 13:20*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*10/22/23 13:20*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*10/22/23 13:20*	*1*

Lab Sample ID: LCS 680-803934/4
Matrix: Water
Analysis Batch: 803934

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	49.8		ug/L		100	70 - 130
1,1,2,2-Tetrachloroethane	50.0	60.9		ug/L		122	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	51.7		ug/L		103	63 - 141
1,1,2-Trichloroethane	50.0	54.9		ug/L		110	70 - 130
1,1-Dichloroethane	50.0	52.4		ug/L		105	70 - 130
1,1-Dichloroethene	50.0	50.4		ug/L		101	70 - 130
1,2,4-Trichlorobenzene	50.0	76.9	J3	ug/L		154	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	69.7	J3	ug/L		139	70 - 130
1,2-Dibromoethane (EDB)	50.0	52.3		ug/L		105	70 - 130
1,2-Dichlorobenzene	50.0	54.8		ug/L		110	70 - 130
1,2-Dichloroethane	50.0	49.4		ug/L		99	70 - 130
1,2-Dichloropropane	50.0	53.0		ug/L		106	70 - 130
1,3-Dichlorobenzene	50.0	51.3		ug/L		103	70 - 130
1,4-Dichlorobenzene	50.0	50.4		ug/L		101	70 - 130
2-Butanone (MEK)	250	239		ug/L		95	69 - 120
2-Hexanone	250	227		ug/L		91	70 - 130
4-Methyl-2-pentanone	250	260		ug/L		104	68 - 120
Acetone	250	274		ug/L		110	67 - 120
Benzene	50.0	52.2		ug/L		104	70 - 130
Bromodichloromethane	50.0	52.3		ug/L		105	70 - 130
Bromoform	50.0	47.0		ug/L		94	69 - 129
Bromomethane	50.0	67.3		ug/L		135	28 - 192
Carbon disulfide	50.0	48.6		ug/L		97	70 - 130
Carbon tetrachloride	50.0	48.8		ug/L		98	70 - 130
Chlorobenzene	50.0	50.3		ug/L		101	70 - 130
Chloroethane	50.0	51.5		ug/L		103	31 - 213
Chloroform	50.0	46.9		ug/L		94	70 - 130
Chloromethane	50.0	47.3		ug/L		95	59 - 127
cis-1,2-Dichloroethene	50.0	52.4		ug/L		105	70 - 130
cis-1,3-Dichloropropene	50.0	49.3		ug/L		99	70 - 130
Cyclohexane	50.0	51.2		ug/L		102	23 - 175
Dibromochloromethane	50.0	51.6		ug/L		103	70 - 130
Dichlorodifluoromethane	50.0	38.5		ug/L		77	70 - 130
Ethylbenzene	50.0	54.1		ug/L		108	70 - 130
Isopropylbenzene	50.0	47.3		ug/L		95	70 - 130

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-803934/4
Matrix: Water
Analysis Batch: 803934

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
m,p-Xylenes	50.0	55.6		ug/L		111	70 - 130
Methyl acetate	100	110		ug/L		110	67 - 120
Methyl tert-butyl ether	50.0	55.2		ug/L		110	70 - 130
Methylene Chloride	50.0	51.3		ug/L		103	70 - 130
o-Xylene	50.0	47.3		ug/L		95	70 - 130
Styrene	50.0	47.5		ug/L		95	70 - 130
Tetrachloroethene	50.0	48.8		ug/L		98	70 - 130
Toluene	50.0	52.5		ug/L		105	70 - 130
trans-1,2-Dichloroethene	50.0	52.7		ug/L		105	70 - 130
trans-1,3-Dichloropropene	50.0	47.3		ug/L		95	70 - 130
Trichloroethene	50.0	48.2		ug/L		96	70 - 130
Trichlorofluoromethane	50.0	53.1		ug/L		106	63 - 142
Vinyl chloride	50.0	51.4		ug/L		103	66 - 129
Xylenes, Total	100	103		ug/L		103	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*60 - 124*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
Dibromofluoromethane (Surr)	*94*		*70 - 130*
Toluene-d8 (Surr)	*97*		*70 - 130*

Lab Sample ID: LCSD 680-803934/5
Matrix: Water
Analysis Batch: 803934

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	50.0	52.1		ug/L		104	70 - 130	5	30
1,1,2,2-Tetrachloroethane	50.0	62.3		ug/L		125	70 - 130	2	30
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	50.8		ug/L		102	63 - 141	2	30
1,1,2-Trichloroethane	50.0	55.5		ug/L		111	70 - 130	1	30
1,1-Dichloroethane	50.0	51.5		ug/L		103	70 - 130	2	30
1,1-Dichloroethene	50.0	49.2		ug/L		98	70 - 130	2	20
1,2,4-Trichlorobenzene	50.0	80.0	J3	ug/L		160	70 - 130	4	30
1,2-Dibromo-3-Chloropropane	50.0	73.9	J3	ug/L		148	70 - 130	6	30
1,2-Dibromoethane (EDB)	50.0	55.2		ug/L		110	70 - 130	6	30
1,2-Dichlorobenzene	50.0	55.0		ug/L		110	70 - 130	0	30
1,2-Dichloroethane	50.0	54.5		ug/L		109	70 - 130	10	50
1,2-Dichloropropane	50.0	53.0		ug/L		106	70 - 130	0	20
1,3-Dichlorobenzene	50.0	51.2		ug/L		102	70 - 130	0	30
1,4-Dichlorobenzene	50.0	50.8		ug/L		102	70 - 130	1	30
2-Butanone (MEK)	250	243		ug/L		97	69 - 120	2	30
2-Hexanone	250	267		ug/L		107	70 - 130	16	20
4-Methyl-2-pentanone	250	294		ug/L		118	68 - 120	12	30
Acetone	250	284		ug/L		114	67 - 120	4	30
Benzene	50.0	50.7		ug/L		101	70 - 130	3	30
Bromodichloromethane	50.0	53.9		ug/L		108	70 - 130	3	30
Bromoform	50.0	51.2		ug/L		102	69 - 129	8	30
Bromomethane	50.0	65.2		ug/L		130	28 - 192	3	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-803934/5
Matrix: Water
Analysis Batch: 803934

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon disulfide	50.0	47.2		ug/L		94	70 - 130	3	30
Carbon tetrachloride	50.0	53.8		ug/L		108	70 - 130	10	30
Chlorobenzene	50.0	52.2		ug/L		104	70 - 130	4	30
Chloroethane	50.0	60.5		ug/L		121	31 - 213	16	30
Chloroform	50.0	47.6		ug/L		95	70 - 130	1	30
Chloromethane	50.0	45.1		ug/L		90	59 - 127	5	30
cis-1,2-Dichloroethene	50.0	52.1		ug/L		104	70 - 130	1	30
cis-1,3-Dichloropropene	50.0	48.8		ug/L		98	70 - 130	1	20
Cyclohexane	50.0	49.5		ug/L		99	23 - 175	3	30
Dibromochloromethane	50.0	56.7		ug/L		113	70 - 130	9	30
Dichlorodifluoromethane	50.0	37.3		ug/L		75	70 - 130	3	40
Ethylbenzene	50.0	53.6		ug/L		107	70 - 130	1	20
Isopropylbenzene	50.0	46.4		ug/L		93	70 - 130	2	30
m,p-Xylenes	50.0	55.3		ug/L		111	70 - 130	1	30
Methyl acetate	100	114		ug/L		114	67 - 120	4	30
Methyl tert-butyl ether	50.0	55.8		ug/L		112	70 - 130	1	30
Methylene Chloride	50.0	51.1		ug/L		102	70 - 130	0	30
o-Xylene	50.0	47.3		ug/L		95	70 - 130	0	30
Styrene	50.0	48.4		ug/L		97	70 - 130	2	30
Tetrachloroethene	50.0	51.4		ug/L		103	70 - 130	5	30
Toluene	50.0	52.7		ug/L		105	70 - 130	0	30
trans-1,2-Dichloroethene	50.0	51.7		ug/L		103	70 - 130	2	30
trans-1,3-Dichloropropene	50.0	48.3		ug/L		97	70 - 130	2	30
Trichloroethene	50.0	51.3		ug/L		103	70 - 130	6	30
Trichlorofluoromethane	50.0	52.0		ug/L		104	63 - 142	2	30
Vinyl chloride	50.0	49.7		ug/L		99	66 - 129	4	30
Xylenes, Total	100	103		ug/L		103	70 - 130	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 124*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
Dibromofluoromethane (Surr)	*100*		*70 - 130*
Toluene-d8 (Surr)	*98*		*70 - 130*

Lab Sample ID: MB 680-803944/8
Matrix: Water
Analysis Batch: 803944

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/22/23 13:34	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/22/23 13:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/22/23 13:34	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/22/23 13:34	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/22/23 13:34	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/22/23 13:34	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/22/23 13:34	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/22/23 13:34	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/22/23 13:34	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-803944/8
Matrix: Water
Analysis Batch: 803944

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/22/23 13:34	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/22/23 13:34	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/22/23 13:34	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/22/23 13:34	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/22/23 13:34	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/22/23 13:34	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/22/23 13:34	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/22/23 13:34	1
Acetone	3.7	U	10	3.7	ug/L			10/22/23 13:34	1
Benzene	0.27	U	1.0	0.27	ug/L			10/22/23 13:34	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/22/23 13:34	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/22/23 13:34	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/22/23 13:34	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/22/23 13:34	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/22/23 13:34	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/22/23 13:34	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/22/23 13:34	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/22/23 13:34	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/22/23 13:34	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/22/23 13:34	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/22/23 13:34	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/22/23 13:34	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/22/23 13:34	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/22/23 13:34	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/22/23 13:34	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/22/23 13:34	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/22/23 13:34	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/22/23 13:34	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/22/23 13:34	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/22/23 13:34	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/22/23 13:34	1
Styrene	0.27	U	1.0	0.27	ug/L			10/22/23 13:34	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/22/23 13:34	1
Toluene	0.25	U	1.0	0.25	ug/L			10/22/23 13:34	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/22/23 13:34	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/22/23 13:34	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/22/23 13:34	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/22/23 13:34	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/22/23 13:34	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/22/23 13:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*60 - 124*		*10/22/23 13:34*	*1*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*		*10/22/23 13:34*	*1*
Dibromofluoromethane (Surr)	*95*		*70 - 130*		*10/22/23 13:34*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/22/23 13:34*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-803944/4
Matrix: Water
Analysis Batch: 803944

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	48.8		ug/L		98	70 - 130
1,1,2,2-Tetrachloroethane	50.0	49.6		ug/L		99	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	49.3		ug/L		99	63 - 141
1,1,2-Trichloroethane	50.0	49.2		ug/L		98	70 - 130
1,1-Dichloroethane	50.0	49.5		ug/L		99	70 - 130
1,1-Dichloroethene	50.0	45.4		ug/L		91	70 - 130
1,2,4-Trichlorobenzene	50.0	47.0		ug/L		94	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	47.5		ug/L		95	70 - 130
1,2-Dibromoethane (EDB)	50.0	50.6		ug/L		101	70 - 130
1,2-Dichlorobenzene	50.0	49.0		ug/L		98	70 - 130
1,2-Dichloroethane	50.0	49.4		ug/L		99	70 - 130
1,2-Dichloropropane	50.0	49.1		ug/L		98	70 - 130
1,3-Dichlorobenzene	50.0	49.2		ug/L		98	70 - 130
1,4-Dichlorobenzene	50.0	49.0		ug/L		98	70 - 130
2-Butanone (MEK)	250	245		ug/L		98	69 - 120
2-Hexanone	250	268		ug/L		107	70 - 130
4-Methyl-2-pentanone	250	266		ug/L		106	68 - 120
Acetone	250	260		ug/L		104	67 - 120
Benzene	50.0	49.6		ug/L		99	70 - 130
Bromodichloromethane	50.0	47.4		ug/L		95	70 - 130
Bromoform	50.0	47.2		ug/L		94	69 - 129
Bromomethane	50.0	33.1		ug/L		66	28 - 192
Carbon disulfide	50.0	43.2		ug/L		86	70 - 130
Carbon tetrachloride	50.0	49.2		ug/L		98	70 - 130
Chlorobenzene	50.0	50.4		ug/L		101	70 - 130
Chloroethane	50.0	57.8		ug/L		116	31 - 213
Chloroform	50.0	47.3		ug/L		95	70 - 130
Chloromethane	50.0	41.7		ug/L		83	59 - 127
cis-1,2-Dichloroethene	50.0	48.3		ug/L		97	70 - 130
cis-1,3-Dichloropropene	50.0	49.4		ug/L		99	70 - 130
Cyclohexane	50.0	48.3		ug/L		97	23 - 175
Dibromochloromethane	50.0	49.3		ug/L		99	70 - 130
Dichlorodifluoromethane	50.0	33.5	J3	ug/L		67	70 - 130
Ethylbenzene	50.0	49.9		ug/L		100	70 - 130
Isopropylbenzene	50.0	50.2		ug/L		100	70 - 130
m,p-Xylenes	50.0	49.8		ug/L		100	70 - 130
Methyl acetate	100	95.5		ug/L		96	67 - 120
Methyl tert-butyl ether	50.0	49.1		ug/L		98	70 - 130
Methylene Chloride	50.0	47.7		ug/L		95	70 - 130
o-Xylene	50.0	49.3		ug/L		99	70 - 130
Styrene	50.0	49.4		ug/L		99	70 - 130
Tetrachloroethene	50.0	51.1		ug/L		102	70 - 130
Toluene	50.0	50.4		ug/L		101	70 - 130
trans-1,2-Dichloroethene	50.0	47.8		ug/L		96	70 - 130
trans-1,3-Dichloropropene	50.0	48.4		ug/L		97	70 - 130
Trichloroethene	50.0	49.8		ug/L		100	70 - 130
Trichlorofluoromethane	50.0	49.8		ug/L		100	63 - 142
Vinyl chloride	50.0	45.7		ug/L		91	66 - 129

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-803944/4
Matrix: Water
Analysis Batch: 803944

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Xylenes, Total			100	99.1		ug/L		99	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*60 - 124*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*
Dibromofluoromethane (Surr)	*96*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 680-803944/5
Matrix: Water
Analysis Batch: 803944

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane			50.0	48.0		ug/L		96	70 - 130	2	30
1,1,2,2-Tetrachloroethane			50.0	49.7		ug/L		99	70 - 130	0	30
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	48.1		ug/L		96	63 - 141	3	30
1,1,2-Trichloroethane			50.0	49.4		ug/L		99	70 - 130	0	30
1,1-Dichloroethane			50.0	48.8		ug/L		98	70 - 130	1	30
1,1-Dichloroethene			50.0	45.6		ug/L		91	70 - 130	0	20
1,2,4-Trichlorobenzene			50.0	49.3		ug/L		99	70 - 130	5	30
1,2-Dibromo-3-Chloropropane			50.0	48.1		ug/L		96	70 - 130	1	30
1,2-Dibromoethane (EDB)			50.0	50.0		ug/L		100	70 - 130	1	30
1,2-Dichlorobenzene			50.0	49.7		ug/L		99	70 - 130	2	30
1,2-Dichloroethane			50.0	49.5		ug/L		99	70 - 130	0	50
1,2-Dichloropropane			50.0	50.3		ug/L		101	70 - 130	2	20
1,3-Dichlorobenzene			50.0	49.8		ug/L		100	70 - 130	1	30
1,4-Dichlorobenzene			50.0	49.7		ug/L		99	70 - 130	1	30
2-Butanone (MEK)			250	242		ug/L		97	69 - 120	1	30
2-Hexanone			250	266		ug/L		107	70 - 130	1	20
4-Methyl-2-pentanone			250	266		ug/L		106	68 - 120	0	30
Acetone			250	253		ug/L		101	67 - 120	3	30
Benzene			50.0	49.4		ug/L		99	70 - 130	0	30
Bromodichloromethane			50.0	49.1		ug/L		98	70 - 130	3	30
Bromoform			50.0	47.6		ug/L		95	69 - 129	1	30
Bromomethane			50.0	36.5		ug/L		73	28 - 192	10	30
Carbon disulfide			50.0	41.2		ug/L		82	70 - 130	5	30
Carbon tetrachloride			50.0	48.7		ug/L		97	70 - 130	1	30
Chlorobenzene			50.0	49.6		ug/L		99	70 - 130	1	30
Chloroethane			50.0	57.6		ug/L		115	31 - 213	0	30
Chloroform			50.0	47.1		ug/L		94	70 - 130	0	30
Chloromethane			50.0	41.0		ug/L		82	59 - 127	2	30
cis-1,2-Dichloroethene			50.0	48.5		ug/L		97	70 - 130	0	30
cis-1,3-Dichloropropene			50.0	48.8		ug/L		98	70 - 130	1	20
Cyclohexane			50.0	47.8		ug/L		96	23 - 175	1	30
Dibromochloromethane			50.0	49.1		ug/L		98	70 - 130	0	30
Dichlorodifluoromethane			50.0	33.2	J3	ug/L		66	70 - 130	1	40
Ethylbenzene			50.0	49.8		ug/L		100	70 - 130	0	20
Isopropylbenzene			50.0	50.0		ug/L		100	70 - 130	0	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-803944/5
Matrix: Water
Analysis Batch: 803944

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m,p-Xylenes			50.0	49.4		ug/L		99	70 - 130	1	30
Methyl acetate			100	96.9		ug/L		97	67 - 120	1	30
Methyl tert-butyl ether			50.0	49.3		ug/L		99	70 - 130	0	30
Methylene Chloride			50.0	47.1		ug/L		94	70 - 130	1	30
o-Xylene			50.0	49.4		ug/L		99	70 - 130	0	30
Styrene			50.0	49.4		ug/L		99	70 - 130	0	30
Tetrachloroethene			50.0	50.3		ug/L		101	70 - 130	2	30
Toluene			50.0	49.9		ug/L		100	70 - 130	1	30
trans-1,2-Dichloroethene			50.0	46.5		ug/L		93	70 - 130	3	30
trans-1,3-Dichloropropene			50.0	48.5		ug/L		97	70 - 130	0	30
Trichloroethene			50.0	49.8		ug/L		100	70 - 130	0	30
Trichlorofluoromethane			50.0	49.2		ug/L		98	63 - 142	1	30
Vinyl chloride			50.0	44.9		ug/L		90	66 - 129	2	30
Xylenes, Total			100	98.8		ug/L		99	70 - 130	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*60 - 124*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*
Dibromofluoromethane (Surr)	*97*		*70 - 130*
Toluene-d8 (Surr)	*99*		*70 - 130*

Lab Sample ID: MB 680-804277/7
Matrix: Water
Analysis Batch: 804277

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/24/23 15:40	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/24/23 15:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/24/23 15:40	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/24/23 15:40	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/24/23 15:40	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/24/23 15:40	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/24/23 15:40	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/24/23 15:40	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/24/23 15:40	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/24/23 15:40	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/24/23 15:40	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/24/23 15:40	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/24/23 15:40	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/24/23 15:40	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/24/23 15:40	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/24/23 15:40	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/24/23 15:40	1
Acetone	3.7	U	10	3.7	ug/L			10/24/23 15:40	1
Benzene	0.27	U	1.0	0.27	ug/L			10/24/23 15:40	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/24/23 15:40	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/24/23 15:40	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/24/23 15:40	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-804277/7
Matrix: Water
Analysis Batch: 804277

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/24/23 15:40	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/24/23 15:40	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/24/23 15:40	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/24/23 15:40	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/24/23 15:40	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/24/23 15:40	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/24/23 15:40	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/24/23 15:40	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/24/23 15:40	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/24/23 15:40	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/24/23 15:40	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/24/23 15:40	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/24/23 15:40	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/24/23 15:40	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/24/23 15:40	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/24/23 15:40	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/24/23 15:40	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/24/23 15:40	1
Styrene	0.27	U	1.0	0.27	ug/L			10/24/23 15:40	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/24/23 15:40	1
Toluene	0.25	U	1.0	0.25	ug/L			10/24/23 15:40	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/24/23 15:40	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/24/23 15:40	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/24/23 15:40	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/24/23 15:40	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/24/23 15:40	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/24/23 15:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 124*		*10/24/23 15:40*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*10/24/23 15:40*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*10/24/23 15:40*	*1*
Toluene-d8 (Surr)	*92*		*70 - 130*		*10/24/23 15:40*	*1*

Lab Sample ID: LCS 680-804277/4
Matrix: Water
Analysis Batch: 804277

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	49.2		ug/L		98	70 - 130
1,1,2,2-Tetrachloroethane	50.0	46.2		ug/L		92	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	51.4		ug/L		103	63 - 141
1,1,2-Trichloroethane	50.0	49.5		ug/L		99	70 - 130
1,1-Dichloroethane	50.0	50.1		ug/L		100	70 - 130
1,1-Dichloroethene	50.0	53.1		ug/L		106	70 - 130
1,2,4-Trichlorobenzene	50.0	48.2		ug/L		96	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	40.6		ug/L		81	70 - 130
1,2-Dibromoethane (EDB)	50.0	50.1		ug/L		100	70 - 130

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-804277/4
Matrix: Water
Analysis Batch: 804277

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichlorobenzene	50.0	50.3		ug/L		101	70 - 130
1,2-Dichloroethane	50.0	49.6		ug/L		99	70 - 130
1,2-Dichloropropane	50.0	48.4		ug/L		97	70 - 130
1,3-Dichlorobenzene	50.0	49.6		ug/L		99	70 - 130
1,4-Dichlorobenzene	50.0	50.0		ug/L		100	70 - 130
2-Butanone (MEK)	250	171	J3	ug/L		68	69 - 120
2-Hexanone	250	234		ug/L		94	70 - 130
4-Methyl-2-pentanone	250	203		ug/L		81	68 - 120
Acetone	250	198		ug/L		79	67 - 120
Benzene	50.0	49.4		ug/L		99	70 - 130
Bromodichloromethane	50.0	49.7		ug/L		99	70 - 130
Bromoform	50.0	39.8		ug/L		80	69 - 129
Bromomethane	50.0	62.3		ug/L		125	28 - 192
Carbon disulfide	50.0	48.4		ug/L		97	70 - 130
Carbon tetrachloride	50.0	48.5		ug/L		97	70 - 130
Chlorobenzene	50.0	50.9		ug/L		102	70 - 130
Chloroethane	50.0	55.6		ug/L		111	31 - 213
Chloroform	50.0	48.4		ug/L		97	70 - 130
Chloromethane	50.0	43.9		ug/L		88	59 - 127
cis-1,2-Dichloroethene	50.0	49.9		ug/L		100	70 - 130
cis-1,3-Dichloropropene	50.0	49.7		ug/L		99	70 - 130
Cyclohexane	50.0	47.5		ug/L		95	23 - 175
Dibromochloromethane	50.0	44.3		ug/L		89	70 - 130
Dichlorodifluoromethane	50.0	50.4		ug/L		101	70 - 130
Ethylbenzene	50.0	49.2		ug/L		98	70 - 130
Isopropylbenzene	50.0	50.9		ug/L		102	70 - 130
m,p-Xylenes	50.0	51.4		ug/L		103	70 - 130
Methyl acetate	100	88.9		ug/L		89	67 - 120
Methyl tert-butyl ether	50.0	41.1		ug/L		82	70 - 130
Methylene Chloride	50.0	48.3		ug/L		97	70 - 130
o-Xylene	50.0	50.6		ug/L		101	70 - 130
Styrene	50.0	50.4		ug/L		101	70 - 130
Tetrachloroethene	50.0	49.7		ug/L		99	70 - 130
Toluene	50.0	49.0		ug/L		98	70 - 130
trans-1,2-Dichloroethene	50.0	50.6		ug/L		101	70 - 130
trans-1,3-Dichloropropene	50.0	45.8		ug/L		92	70 - 130
Trichloroethene	50.0	48.7		ug/L		97	70 - 130
Trichlorofluoromethane	50.0	82.9	J3	ug/L		166	63 - 142
Vinyl chloride	50.0	48.8		ug/L		98	66 - 129
Xylenes, Total	100	102		ug/L		102	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 124*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
Dibromofluoromethane (Surr)	*99*		*70 - 130*
Toluene-d8 (Surr)	*95*		*70 - 130*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-804277/5
Matrix: Water
Analysis Batch: 804277

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	50.0	53.2		ug/L		106	70 - 130	8	30
1,1,2,2-Tetrachloroethane	50.0	47.2		ug/L		94	70 - 130	2	30
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	53.3		ug/L		107	63 - 141	4	30
1,1,2-Trichloroethane	50.0	49.7		ug/L		99	70 - 130	1	30
1,1-Dichloroethane	50.0	53.1		ug/L		106	70 - 130	6	30
1,1-Dichloroethene	50.0	52.6		ug/L		105	70 - 130	1	20
1,2,4-Trichlorobenzene	50.0	43.8		ug/L		88	70 - 130	10	30
1,2-Dibromo-3-Chloropropane	50.0	40.0		ug/L		80	70 - 130	1	30
1,2-Dibromoethane (EDB)	50.0	50.3		ug/L		101	70 - 130	0	30
1,2-Dichlorobenzene	50.0	49.1		ug/L		98	70 - 130	2	30
1,2-Dichloroethane	50.0	49.8		ug/L		100	70 - 130	0	50
1,2-Dichloropropane	50.0	46.8		ug/L		94	70 - 130	3	20
1,3-Dichlorobenzene	50.0	49.5		ug/L		99	70 - 130	0	30
1,4-Dichlorobenzene	50.0	50.6		ug/L		101	70 - 130	1	30
2-Butanone (MEK)	250	189		ug/L		75	69 - 120	10	30
2-Hexanone	250	230		ug/L		92	70 - 130	2	20
4-Methyl-2-pentanone	250	199		ug/L		80	68 - 120	2	30
Acetone	250	203		ug/L		81	67 - 120	2	30
Benzene	50.0	48.8		ug/L		98	70 - 130	1	30
Bromodichloromethane	50.0	50.5		ug/L		101	70 - 130	2	30
Bromoform	50.0	41.2		ug/L		82	69 - 129	3	30
Bromomethane	50.0	66.6		ug/L		133	28 - 192	7	30
Carbon disulfide	50.0	49.8		ug/L		100	70 - 130	3	30
Carbon tetrachloride	50.0	49.3		ug/L		99	70 - 130	2	30
Chlorobenzene	50.0	50.8		ug/L		102	70 - 130	0	30
Chloroethane	50.0	57.8		ug/L		116	31 - 213	4	30
Chloroform	50.0	53.0		ug/L		106	70 - 130	9	30
Chloromethane	50.0	46.0		ug/L		92	59 - 127	5	30
cis-1,2-Dichloroethene	50.0	53.3		ug/L		107	70 - 130	7	30
cis-1,3-Dichloropropene	50.0	49.7		ug/L		99	70 - 130	0	20
Cyclohexane	50.0	51.3		ug/L		103	23 - 175	8	30
Dibromochloromethane	50.0	44.1		ug/L		88	70 - 130	0	30
Dichlorodifluoromethane	50.0	54.5		ug/L		109	70 - 130	8	40
Ethylbenzene	50.0	51.0		ug/L		102	70 - 130	3	20
Isopropylbenzene	50.0	52.4		ug/L		105	70 - 130	3	30
m,p-Xylenes	50.0	53.5		ug/L		107	70 - 130	4	30
Methyl acetate	100	93.3		ug/L		93	67 - 120	5	30
Methyl tert-butyl ether	50.0	44.3		ug/L		89	70 - 130	7	30
Methylene Chloride	50.0	52.0		ug/L		104	70 - 130	7	30
o-Xylene	50.0	52.5		ug/L		105	70 - 130	4	30
Styrene	50.0	53.0		ug/L		106	70 - 130	5	30
Tetrachloroethene	50.0	49.0		ug/L		98	70 - 130	1	30
Toluene	50.0	49.0		ug/L		98	70 - 130	0	30
trans-1,2-Dichloroethene	50.0	54.9		ug/L		110	70 - 130	8	30
trans-1,3-Dichloropropene	50.0	46.6		ug/L		93	70 - 130	2	30
Trichloroethene	50.0	48.8		ug/L		98	70 - 130	0	30
Trichlorofluoromethane	50.0	89.5	J3	ug/L		179	63 - 142	8	30
Vinyl chloride	50.0	51.9		ug/L		104	66 - 129	6	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-804277/5
Matrix: Water
Analysis Batch: 804277

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Xylenes, Total			100	106		ug/L		106	70 - 130	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 124*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
Dibromofluoromethane (Surr)	*104*		*70 - 130*
Toluene-d8 (Surr)	*96*		*70 - 130*

GC/MS VOA

Analysis Batch: 803934

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-28817-2	LC34-DPT0988-013.0-20231016	Total/NA	Water	8260D	
670-28817-3	LC34-DPT0988-018.0-20231016	Total/NA	Water	8260D	
670-28817-4	LC34-DPT0988-025.0-20231016	Total/NA	Water	8260D	
670-28817-8	LC34-DPT0989-013.0-20231016	Total/NA	Water	8260D	
670-28817-9	LC34-DPT0989-018.0-20231016	Total/NA	Water	8260D	
670-28817-10	LC34-DPT0989-025.0-20231016	Total/NA	Water	8260D	
670-28817-14	LC34-DPT0990-013.0-20231016	Total/NA	Water	8260D	
670-28817-15	LC34-DPT0990-018.0-20231016	Total/NA	Water	8260D	
670-28817-16	LC34-DPT0990-025.0-20231016	Total/NA	Water	8260D	
670-28817-20	LC34-DPT0991-013.0-20231016	Total/NA	Water	8260D	
670-28817-22	LC34-DPT0992-013.0-20231017	Total/NA	Water	8260D	
670-28817-23	LC34-DPT0992-018.0-20231017	Total/NA	Water	8260D	
670-28817-24	LC34-DPT0992-025.0-20231017	Total/NA	Water	8260D	
670-28817-25	LC34-DPT0992-034.0-20231017	Total/NA	Water	8260D	
670-28817-29	LC34-DPT0993-018.0-20231017	Total/NA	Water	8260D	
670-28817-30	LC34-DPT0993-025.0-20231017	Total/NA	Water	8260D	
670-28817-34	LC34-DPT0994-013.0-20231017	Total/NA	Water	8260D	
670-28817-36	LC34-DPT0994-025.0-20231017	Total/NA	Water	8260D	
670-28817-37	LC34-DPT0994-034.0-20231017	Total/NA	Water	8260D	
MB 680-803934/8	Method Blank	Total/NA	Water	8260D	
LCS 680-803934/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-803934/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 803944

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-28817-1	LC34-DPT0988-008.0-20231016	Total/NA	Water	8260D	
670-28817-5	LC34-DPT0988-034.0-20231016	Total/NA	Water	8260D	
670-28817-6	LC34-DPT0988-038.0-20231016	Total/NA	Water	8260D	
670-28817-7	LC34-DPT0989-008.0-20231016	Total/NA	Water	8260D	
670-28817-11	LC34-DPT0989-034.0-20231016	Total/NA	Water	8260D	
670-28817-12	LC34-DPT0989-038.0-20231016	Total/NA	Water	8260D	
670-28817-13	LC34-DPT0990-008.0-20231016	Total/NA	Water	8260D	
670-28817-17	LC34-DPT0990-034.0-20231016	Total/NA	Water	8260D	
670-28817-18	LC34-DPT0990-038.0-20231016	Total/NA	Water	8260D	
670-28817-19	LC34-DPT0991-008.0-20231016	Total/NA	Water	8260D	
670-28817-21	LC34-DPT0992-008.0-20231017	Total/NA	Water	8260D	
670-28817-26	LC34-DPT0992-038.0-20231017	Total/NA	Water	8260D	
670-28817-27	LC34-DPT0993-008.0-20231017	Total/NA	Water	8260D	
670-28817-31	LC34-DPT0993-034.0-20231017	Total/NA	Water	8260D	
670-28817-32	LC34-DPT0993-038.0-20231017	Total/NA	Water	8260D	
670-28817-35	LC34-DPT0994-018.0-20231017	Total/NA	Water	8260D	
670-28817-38	LC34-DPT0994-038.0-20231017	Total/NA	Water	8260D	
MB 680-803944/8	Method Blank	Total/NA	Water	8260D	
LCS 680-803944/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-803944/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 804277

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-28817-28	LC34-DPT0993-013.0-20231017	Total/NA	Water	8260D	
670-28817-33	LC34-DPT0994-008.0-20231017	Total/NA	Water	8260D	
MB 680-804277/7	Method Blank	Total/NA	Water	8260D	

GC/MS VOA (Continued)

Analysis Batch: 804277 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-804277/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-804277/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Lab Chronicle

Client: Tetra Tech, Inc.
Job ID: 670-28817-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT0988-008.0-20231016
Lab Sample ID: 670-28817-1
Date Collected: 10/16/23 09:05
Matrix: Water
Date Received: 10/18/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	803944	UI	EET SAV	10/22/23 14:38

Client Sample ID: LC34-DPT0988-013.0-20231016
Lab Sample ID: 670-28817-2
Date Collected: 10/16/23 09:35
Matrix: Water
Date Received: 10/18/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		2	803934	UI	EET SAV	10/22/23 14:55

Client Sample ID: LC34-DPT0988-018.0-20231016
Lab Sample ID: 670-28817-3
Date Collected: 10/16/23 09:55
Matrix: Water
Date Received: 10/18/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		25	803934	UI	EET SAV	10/22/23 19:34

Client Sample ID: LC34-DPT0988-025.0-20231016
Lab Sample ID: 670-28817-4
Date Collected: 10/16/23 10:10
Matrix: Water
Date Received: 10/18/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		10	803934	UI	EET SAV	10/22/23 17:47

Client Sample ID: LC34-DPT0988-034.0-20231016
Lab Sample ID: 670-28817-5
Date Collected: 10/16/23 10:30
Matrix: Water
Date Received: 10/18/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	803944	UI	EET SAV	10/22/23 15:00

Client Sample ID: LC34-DPT0988-038.0-20231016
Lab Sample ID: 670-28817-6
Date Collected: 10/16/23 10:50
Matrix: Water
Date Received: 10/18/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	803944	UI	EET SAV	10/22/23 15:22

Client Sample ID: LC34-DPT0989-008.0-20231016
Lab Sample ID: 670-28817-7
Date Collected: 10/16/23 11:25
Matrix: Water
Date Received: 10/18/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	803944	UI	EET SAV	10/22/23 15:44

Lab Chronicle

Client: Tetra Tech, Inc.
Job ID: 670-28817-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT0989-013.0-20231016
Lab Sample ID: 670-28817-8
Date Collected: 10/16/23 11:45
Matrix: Water
Date Received: 10/18/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		5	803934	UI	EET SAV	10/22/23 16:00

Client Sample ID: LC34-DPT0989-018.0-20231016
Lab Sample ID: 670-28817-9
Date Collected: 10/16/23 12:00
Matrix: Water
Date Received: 10/18/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		25	803934	UI	EET SAV	10/22/23 19:55

Client Sample ID: LC34-DPT0989-025.0-20231016
Lab Sample ID: 670-28817-10
Date Collected: 10/16/23 12:30
Matrix: Water
Date Received: 10/18/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		5	803934	UI	EET SAV	10/22/23 16:43

Client Sample ID: LC34-DPT0989-034.0-20231016
Lab Sample ID: 670-28817-11
Date Collected: 10/16/23 12:50
Matrix: Water
Date Received: 10/18/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	803944	UI	EET SAV	10/22/23 16:06

Client Sample ID: LC34-DPT0989-038.0-20231016
Lab Sample ID: 670-28817-12
Date Collected: 10/16/23 13:10
Matrix: Water
Date Received: 10/18/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	803944	UI	EET SAV	10/22/23 16:28

Client Sample ID: LC34-DPT0990-008.0-20231016
Lab Sample ID: 670-28817-13
Date Collected: 10/16/23 13:45
Matrix: Water
Date Received: 10/18/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	803944	UI	EET SAV	10/22/23 16:50

Client Sample ID: LC34-DPT0990-013.0-20231016
Lab Sample ID: 670-28817-14
Date Collected: 10/16/23 13:55
Matrix: Water
Date Received: 10/18/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		25	803934	UI	EET SAV	10/22/23 20:16

Lab Chronicle

Client: Tetra Tech, Inc.
Job ID: 670-28817-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT0990-018.0-20231016
Lab Sample ID: 670-28817-15
Date Collected: 10/16/23 14:10
Matrix: Water
Date Received: 10/18/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		25	803934	UI	EET SAV	10/22/23 20:37

Client Sample ID: LC34-DPT0990-025.0-20231016
Lab Sample ID: 670-28817-16
Date Collected: 10/16/23 14:30
Matrix: Water
Date Received: 10/18/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		5	803934	UI	EET SAV	10/22/23 17:04

Client Sample ID: LC34-DPT0990-034.0-20231016
Lab Sample ID: 670-28817-17
Date Collected: 10/16/23 14:45
Matrix: Water
Date Received: 10/18/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	803944	UI	EET SAV	10/22/23 17:12

Client Sample ID: LC34-DPT0990-038.0-20231016
Lab Sample ID: 670-28817-18
Date Collected: 10/16/23 15:05
Matrix: Water
Date Received: 10/18/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	803944	UI	EET SAV	10/22/23 17:35

Client Sample ID: LC34-DPT0991-008.0-20231016
Lab Sample ID: 670-28817-19
Date Collected: 10/16/23 16:10
Matrix: Water
Date Received: 10/18/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	803944	UI	EET SAV	10/22/23 17:57

Client Sample ID: LC34-DPT0991-013.0-20231016
Lab Sample ID: 670-28817-20
Date Collected: 10/16/23 16:25
Matrix: Water
Date Received: 10/18/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		5	803934	UI	EET SAV	10/22/23 16:21

Client Sample ID: LC34-DPT0992-008.0-20231017
Lab Sample ID: 670-28817-21
Date Collected: 10/17/23 08:05
Matrix: Water
Date Received: 10/18/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	803944	UI	EET SAV	10/22/23 18:19

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28817-1

Client Sample ID: LC34-DPT0992-013.0-20231017
Lab Sample ID: 670-28817-22
Date Collected: 10/17/23 08:25
Matrix: Water
Date Received: 10/18/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		5	803934	UI	EET SAV	10/22/23 17:26

Client Sample ID: LC34-DPT0992-018.0-20231017
Lab Sample ID: 670-28817-23
Date Collected: 10/17/23 08:40
Matrix: Water
Date Received: 10/18/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		25	803934	UI	EET SAV	10/22/23 20:59

Client Sample ID: LC34-DPT0992-025.0-20231017
Lab Sample ID: 670-28817-24
Date Collected: 10/17/23 08:55
Matrix: Water
Date Received: 10/18/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		10	803934	UI	EET SAV	10/22/23 18:08

Client Sample ID: LC34-DPT0992-034.0-20231017
Lab Sample ID: 670-28817-25
Date Collected: 10/17/23 09:15
Matrix: Water
Date Received: 10/18/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		2	803934	UI	EET SAV	10/22/23 14:34

Client Sample ID: LC34-DPT0992-038.0-20231017
Lab Sample ID: 670-28817-26
Date Collected: 10/17/23 09:35
Matrix: Water
Date Received: 10/18/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	803944	UI	EET SAV	10/22/23 18:42

Client Sample ID: LC34-DPT0993-008.0-20231017
Lab Sample ID: 670-28817-27
Date Collected: 10/17/23 10:10
Matrix: Water
Date Received: 10/18/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	803944	UI	EET SAV	10/22/23 19:04

Client Sample ID: LC34-DPT0993-013.0-20231017
Lab Sample ID: 670-28817-28
Date Collected: 10/17/23 10:20
Matrix: Water
Date Received: 10/18/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		10	804277	P1C	EET SAV	10/24/23 21:31

Lab Chronicle

Client: Tetra Tech, Inc.
Job ID: 670-28817-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT0993-018.0-20231017
Lab Sample ID: 670-28817-29
Date Collected: 10/17/23 10:35
Matrix: Water
Date Received: 10/18/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		10	803934	UI	EET SAV	10/22/23 18:30

Client Sample ID: LC34-DPT0993-025.0-20231017
Lab Sample ID: 670-28817-30
Date Collected: 10/17/23 10:50
Matrix: Water
Date Received: 10/18/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		10	803934	UI	EET SAV	10/22/23 18:51

Client Sample ID: LC34-DPT0993-034.0-20231017
Lab Sample ID: 670-28817-31
Date Collected: 10/17/23 11:10
Matrix: Water
Date Received: 10/18/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	803944	UI	EET SAV	10/22/23 19:27

Client Sample ID: LC34-DPT0993-038.0-20231017
Lab Sample ID: 670-28817-32
Date Collected: 10/17/23 11:30
Matrix: Water
Date Received: 10/18/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	803944	UI	EET SAV	10/22/23 19:49

Client Sample ID: LC34-DPT0994-008.0-20231017
Lab Sample ID: 670-28817-33
Date Collected: 10/17/23 12:45
Matrix: Water
Date Received: 10/18/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		5	804277	P1C	EET SAV	10/24/23 21:50

Client Sample ID: LC34-DPT0994-013.0-20231017
Lab Sample ID: 670-28817-34
Date Collected: 10/17/23 13:00
Matrix: Water
Date Received: 10/18/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		2	803934	UI	EET SAV	10/22/23 15:38

Client Sample ID: LC34-DPT0994-018.0-20231017
Lab Sample ID: 670-28817-35
Date Collected: 10/17/23 13:10
Matrix: Water
Date Received: 10/18/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	803944	UI	EET SAV	10/22/23 20:34

Lab Chronicle

Client: Tetra Tech, Inc.
Job ID: 670-28817-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT0994-025.0-20231017
Lab Sample ID: 670-28817-36
Date Collected: 10/17/23 13:25
Matrix: Water
Date Received: 10/18/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		10	803934	UI	EET SAV	10/22/23 19:12

Client Sample ID: LC34-DPT0994-034.0-20231017
Lab Sample ID: 670-28817-37
Date Collected: 10/17/23 13:45
Matrix: Water
Date Received: 10/18/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		50	803934	UI	EET SAV	10/22/23 21:20

Client Sample ID: LC34-DPT0994-038.0-20231017
Lab Sample ID: 670-28817-38
Date Collected: 10/17/23 14:05
Matrix: Water
Date Received: 10/18/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		50	803944	UI	EET SAV	10/22/23 20:56

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: Tetra Tech, Inc.
Job ID: 670-28817-1
Project/Site: NASA KSC LC34 DPT

Laboratory: Eurofins Savannah

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
	AFCEE	SAVLAB	
Alabama	State	41450	06-30-24
ANAB	Dept. of Defense ELAP	L2463	10-26-23
Arkansas DEQ	State	19-015-0	02-01-24
California	State	2939	06-30-24
Florida	NELAP	E87052	06-30-24
Georgia	State	E87052	06-30-24
Georgia (DW)	State	803	06-30-24
Guam	State	19-007R	04-17-24
Hawaii	State	<cert No.>	06-30-24
Illinois	NELAP	200022	11-30-23
Indiana	State	C-GA-02	06-30-24
Iowa	State	353	07-01-25
Kentucky (UST)	State	NA	06-30-24
Louisiana	NELAP	30690	06-30-24
Louisiana (All)	NELAP	30690	06-30-24
Louisiana (DW)	State	LA009	12-31-23
Maine	State	GA00006	09-25-24
Maryland	State	250	12-31-23
Massachusetts	State	M-GA006	06-30-24
Michigan	State	9925	06-30-24
Mississippi	State	<cert No.>	06-30-24
Nebraska	State	NE-OS-7-04	06-30-24
New Jersey	NELAP	GA769	06-30-24
New Mexico	State	GA00006	06-30-24
North Carolina (DW)	State	13701	07-31-24
North Carolina (WW/SW)	State	269	12-31-23
Pennsylvania	NELAP	68-00474	06-30-24
Puerto Rico	State	GA00006	01-01-24
South Carolina	State	98001	06-24-24
Tennessee	State	TN02961	06-30-24
Texas	NELAP	T1047004185	11-30-23
Texas	TCEQ Water Supply	T104704185	06-30-24
USDA	US Federal Programs	P330-18-00313	09-03-24
Virginia	NELAP	460161	06-14-24
Wyoming	State	8TMS-L	06-30-24

Method Summary

Client: Tetra Tech, Inc.
Job ID: 670-28817-1
Project/Site: NASA KSC LC34 DPT

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET SAV
5030B	Purge and Trap	SW846	EET SAV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Sample Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28817-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
670-28817-1	LC34-DPT0988-008.0-20231016	Water	10/16/23 09:05	10/18/23 08:00
670-28817-2	LC34-DPT0988-013.0-20231016	Water	10/16/23 09:35	10/18/23 08:00
670-28817-3	LC34-DPT0988-018.0-20231016	Water	10/16/23 09:55	10/18/23 08:00
670-28817-4	LC34-DPT0988-025.0-20231016	Water	10/16/23 10:10	10/18/23 08:00
670-28817-5	LC34-DPT0988-034.0-20231016	Water	10/16/23 10:30	10/18/23 08:00
670-28817-6	LC34-DPT0988-038.0-20231016	Water	10/16/23 10:50	10/18/23 08:00
670-28817-7	LC34-DPT0989-008.0-20231016	Water	10/16/23 11:25	10/18/23 08:00
670-28817-8	LC34-DPT0989-013.0-20231016	Water	10/16/23 11:45	10/18/23 08:00
670-28817-9	LC34-DPT0989-018.0-20231016	Water	10/16/23 12:00	10/18/23 08:00
670-28817-10	LC34-DPT0989-025.0-20231016	Water	10/16/23 12:30	10/18/23 08:00
670-28817-11	LC34-DPT0989-034.0-20231016	Water	10/16/23 12:50	10/18/23 08:00
670-28817-12	LC34-DPT0989-038.0-20231016	Water	10/16/23 13:10	10/18/23 08:00
670-28817-13	LC34-DPT0990-008.0-20231016	Water	10/16/23 13:45	10/18/23 08:00
670-28817-14	LC34-DPT0990-013.0-20231016	Water	10/16/23 13:55	10/18/23 08:00
670-28817-15	LC34-DPT0990-018.0-20231016	Water	10/16/23 14:10	10/18/23 08:00
670-28817-16	LC34-DPT0990-025.0-20231016	Water	10/16/23 14:30	10/18/23 08:00
670-28817-17	LC34-DPT0990-034.0-20231016	Water	10/16/23 14:45	10/18/23 08:00
670-28817-18	LC34-DPT0990-038.0-20231016	Water	10/16/23 15:05	10/18/23 08:00
670-28817-19	LC34-DPT0991-008.0-20231016	Water	10/16/23 16:10	10/18/23 08:00
670-28817-20	LC34-DPT0991-013.0-20231016	Water	10/16/23 16:25	10/18/23 08:00
670-28817-21	LC34-DPT0992-008.0-20231017	Water	10/17/23 08:05	10/18/23 08:00
670-28817-22	LC34-DPT0992-013.0-20231017	Water	10/17/23 08:25	10/18/23 08:00
670-28817-23	LC34-DPT0992-018.0-20231017	Water	10/17/23 08:40	10/18/23 08:00
670-28817-24	LC34-DPT0992-025.0-20231017	Water	10/17/23 08:55	10/18/23 08:00
670-28817-25	LC34-DPT0992-034.0-20231017	Water	10/17/23 09:15	10/18/23 08:00
670-28817-26	LC34-DPT0992-038.0-20231017	Water	10/17/23 09:35	10/18/23 08:00
670-28817-27	LC34-DPT0993-008.0-20231017	Water	10/17/23 10:10	10/18/23 08:00
670-28817-28	LC34-DPT0993-013.0-20231017	Water	10/17/23 10:20	10/18/23 08:00
670-28817-29	LC34-DPT0993-018.0-20231017	Water	10/17/23 10:35	10/18/23 08:00
670-28817-30	LC34-DPT0993-025.0-20231017	Water	10/17/23 10:50	10/18/23 08:00
670-28817-31	LC34-DPT0993-034.0-20231017	Water	10/17/23 11:10	10/18/23 08:00
670-28817-32	LC34-DPT0993-038.0-20231017	Water	10/17/23 11:30	10/18/23 08:00
670-28817-33	LC34-DPT0994-008.0-20231017	Water	10/17/23 12:45	10/18/23 08:00
670-28817-34	LC34-DPT0994-013.0-20231017	Water	10/17/23 13:00	10/18/23 08:00
670-28817-35	LC34-DPT0994-018.0-20231017	Water	10/17/23 13:10	10/18/23 08:00
670-28817-36	LC34-DPT0994-025.0-20231017	Water	10/17/23 13:25	10/18/23 08:00
670-28817-37	LC34-DPT0994-034.0-20231017	Water	10/17/23 13:45	10/18/23 08:00
670-28817-38	LC34-DPT0994-038.0-20231017	Water	10/17/23 14:05	10/18/23 08:00

Tetra Tech, Inc.

CHAIN OF CUSTODY | NUMBER No. 3773 | PAGE 1 OF 3

PROJECT NO: 112G089885	FACILITY: KSC-LC34	PROJECT MANAGER Mark Sonnet	PHONE NUMBER (412) 921-8622	LABORATORY NAME AND CONTACT: Eurofins — Kaitlin Dylnick
SAMPLERS (SIGNATURE) - Chuck Sorden		FIELD OPERATIONS LEADER Chuck Sorden	PHONE NUMBER (321) 591-7580	ADDRESS 481 Newburyport Ave.
		CARRIER/WAYBILL NUMBER		CITY, STATE Altamonte Springs, FL

STANDARD TAT ☒
RUSH TAT ☐ ☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2023	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)		PRESERVATIVE USED		TYPE OF ANALYSIS		COMMENTS
									G	G	HCl/4°C	4°C	8260D-(MOD) NASA LC34 Custom List	8260D-(MOD) NASA LC34 Custom List	
10/16	0905	LC34-DPT0988-008.0-20231016	08	6	10	GW	G	4	X	X					
	0935 0925	LC34-DPT0988-013.0-20231016		11	15										
	0955	LC34-DPT0988-018.0-20231016		16	20										
	1010	LC34-DPT0988-025.0-20231016		23	27										
	1030	LC34-DPT0988-034.0-20231016		32	36										
	1050	LC34-DPT0988-038.0-20231016	08	36	40										
	1125	LC34-DPT0989-008.0-20231016	15	6	10										
	1145	LC34-DPT0989-013.0-20231016		11	15										
	1200	LC34-DPT0989-018.0-20231016		16	20										
	1230	LC34-DPT0989-025.0-20231016		23	27										
	1250	LC34-DPT0989-034.0-20231016		32	36										
	1310	LC34-DPT0989-038.0-20231016	15	36	40										
10/16	1345	LC34-DPT0990-008.0-20231016	22	6	10	GW	G	4	X	X					

670-28817 Chain of Custody

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	10/17/23	1415	1. RECEIVED BY		
2. RELINQUISHED BY			2. RECEIVED BY		
3. RELINQUISHED BY			3. RECEIVED BY	10/18	0800

COMMENTS 0.7/0.2

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

FORM NO. TtNUS-001 4/02R 11/2/2023

Tetra Tech, Inc.

CHAIN OF CUSTODY | NUMBER No. 3774 | PAGE 2 OF 3

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G08985	KSC-LC34	Mark Sonnet	(412) 921-8622	Eurofins — Kaitlin Dylnicki
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER	PHONE NUMBER	ADDRESS
– Chuck Sorden		Chuck Sorden	(321) 591-7580	481 Newburyport Ave.
		CARRIER/WAYBILL NUMBER		CITY, STATE
				Altamonte Springs, FL

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE (YEAR 2023)	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)										COMMENTS
									G	G									
									PRESERVATIVE USED		HCl/4°C	4°C							
									TYPE OF ANALYSIS		8260D-(MOD) NASA LC34 Custom List	8260D-(MOD) NASA LC34 Custom List							
10/16	1355	LC34-DPT0990-013.0-20231016	22	11	15	GW	G	4	X	X									
	1410	LC34-DPT0990-018.0-20231016		16	20														
	1430	LC34-DPT0990-025.0-20231016		23	27														
	1445	LC34-DPT0990-034.0-20231016		32	36														
	1505	LC34-DPT0990-038.0-20231016	22	36	40														
	1610	LC34-DPT0991-008.0-20231016	29	6	10														
10/16	1625	LC34-DPT0991-013.0-20231016	29	11	15														
10/17	0805	LC34-DPT0992-008.0-20231017	28	6	10														
	0825	LC34-DPT0992-013.0-20231017		11	15														
	0840	LC34-DPT0992-018.0-20231017		16	20														
	0855	LC34-DPT0992-025.0-20231017		23	27														
	0915	LC34-DPT0992-034.0-20231017		32	36														
10/17	0935	LC34-DPT0992-038.0-20231017	28	36	40	GW	G	4	X	X									

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	10/17/23	1415	1. RECEIVED BY		
2. RELINQUISHED BY			2. RECEIVED BY		
3. RELINQUISHED BY			3. RECEIVED BY	10/18	0800

COMMENTS 0.7/0.2

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Tetra Tech, Inc. CHAIN OF CUSTODY | NUMBER No. 3775 | PAGE 3 OF 3

PROJECT NO: 112G08985	FACILITY: KSC - LC34	PROJECT MANAGER Mark Sonner	PHONE NUMBER (412) 921-8622	LABORATORY NAME AND CONTACT: Eurofins – Kaitlin Dylnicki
SAMPLERS (SIGNATURE) -Chuck Sorden		FIELD OPERATIONS LEADER Chuck Sorden	PHONE NUMBER (321) 591-7580	ADDRESS 481 Newburyport Ave.
		CARRIER/WAYBILL NUMBER		CITY, STATE Altamonte Springs, FL

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): G G
PRESERVATIVE USED: HCl/4°C 4°C

DATE YEAR 2023	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS: 8260D - (MOD) NASA LC34 Custom List	8260D - (MOD) NASA LC34 Custom List	COMMENTS
10/17	1010	LC34-DPT0993-008.0-20231017	34	6	10	GW	G	4	X	X	
	1020	LC34-DPT0993-013.0-20231017		11	15						
	1035	LC34-DPT0993-018.0-20231017		16	20						
	1050	LC34-DPT0993-025.0-20231017		23	27						
	1110	LC34-DPT0993-034.0-20231017		32	36						
	1130	LC34-DPT0993-038.0-20231017	34	36	40						
	1245	LC34-DPT0994-008.0-20231017	23A	6	10						
	1300	LC34-DPT0994-013.0-20231017		11	15						
	1310	LC34-DPT0994-018.0-20231017		16	20						
	1325	LC34-DPT0994-025.0-20231017		23	27						
	1345	LC34-DPT0994-034.0-20231017		32	36						
10/17	1405	LC34-DPT0994-038.0-20231017	23A	36	40	GW	G	4	X	X	

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	10/17/23	1415	1. RECEIVED BY		
2. RELINQUISHED BY			2. RECEIVED BY		
3. RELINQUISHED BY			3. RECEIVED BY	10/18	0800

COMMENTS 0.7/0.2

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

Eurofins Orlando
481 Newburyport Avenue
Altamonte Springs, FL 32701
Phone: 407-339-5984 Fax: 407-260-6110

Chain of Custody Record

eurofins
Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Dylnicki, Kaitlin	Carrier Tracking No(s):	COC No: 670-17209.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: kaitlin.dylnicki@et.eurofinsus.com	State of Origin: Florida	Page: Page 1 of 5
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP - Florida		Job #: 670-28817-1
Address: 5102 LaRoche Avenue, ,	Due Date Requested: 10/30/2023			
City: Savannah	TAT Requested (days):			
State, Zip: GA, 31404				
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	PO #:			
Email:	WO #:			
Project Name: NASA KSC LC34	Project #: 67001156			
Site:	SSOW#:			

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D/5030B (MOD) NASA LC34 Custom	8260D/5030B_UP (MOD) NASA LC34 Custom	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
LC34-DPT0988-008.0-20231016 (670-28817-1)	10/16/23	09:05 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0988-013.0-20231016 (670-28817-2)	10/16/23	09:35 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0988-018.0-20231016 (670-28817-3)	10/16/23	09:55 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0988-025.0-20231016 (670-28817-4)	10/16/23	10:10 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0988-034.0-20231016 (670-28817-5)	10/16/23	10:30 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0988-038.0-20231016 (670-28817-6)	10/16/23	10:50 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0989-008.0-20231016 (670-28817-7)	10/16/23	11:25 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0989-013.0-20231016 (670-28817-8)	10/16/23	11:45 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0989-018.0-20231016 (670-28817-9)	10/16/23	12:00 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	10/16 1430		Kathmalus	10/19/23 09:58	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.7/2.0

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 670-28817-1

Login Number: 28817

List Number: 1

Creator: Hartley, Tyler

List Source: Eurofins Orlando

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 670-28817-1

Login Number: 28817
List Number: 2
Creator: Harley, Tynisha

List Source: Eurofins Savannah
List Creation: 10/19/23 02:20 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Mark Jonnet
Tetra Tech, Inc.
Foster Plaza 7
661 Anderson Drive
Suite 200
Pittsburgh, Pennsylvania 15220-2745

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JOB DESCRIPTION

NASA KSC LC34 DPT

JOB NUMBER

670-28871-1

Eurofins Orlando
481 Newburyport Avenue
Altamonte Springs FL 32701

See page two for job notes and contact information.

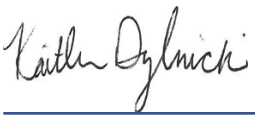
my EOL

Job Notes

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The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization



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Authorized for release by
Kaitlin Dylnicki, Project Manager
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(407)339-5984

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Definitions/Glossary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28871-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
U	Indicates that the compound was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 670-28871-1

Laboratory: Eurofins Orlando

Narrative

Job Narrative
Client: Tetra Tech
Client PM: Mark Jonnet
Project: NASA KSC LC34
Project Number: 112G08985
670-28871-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 10/19/2023 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.5°C

GC/MS VOA
Method 8260D: The continuing calibration verification (CCV) analyzed in batch 680-804255 was outside the method criteria for the following analyte(s): Bromomethane, Chloroethane, Chloromethane and Dichlorodifluoromethane. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8260D: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for analytical batch 680-804255 recovered outside control limits for the following analyte(s): Dichlorodifluoromethane. Dichlorodifluoromethane has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260D: The laboratory control sample duplicate (LCSD) for analytical batch 680-804255 recovered outside control limits for the following analytes: 4-Methyl-2-pentanone and Acetone. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D: The following samples were diluted to bring the concentration of target analytes within the calibration range: LC34-DPT0995-025.0-20231017 (670-28871-4), LC34-DPT0995-034.0-20231017 (670-28871-5), LC34-DPT0995-038.0-20231017 (670-28871-6), LC34-DPT0997-025.0-20231018 (670-28871-15) and LC34-DPT0998-025.0-20231018 (670-28871-21). Elevated reporting limits (RLs) are provided.

Method 8260D: The continuing calibration verification (CCV) associated with batch 680-804257 recovered above the upper control limit for 1,2,4-Trichlorobenzene and Bromomethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260D: The continuing calibration verification (CCV) associated with batch 680-804257 recovered outside acceptance criteria, low biased, for 2-Butanone (MEK), Acetone, Chloromethane, Dichlorodifluoromethane and Methyl acetate. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

Method 8260D: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for analytical batch 680-804257 recovered outside control limits for the following analyte(s): 2-Butanone (MEK). 2-Butanone (MEK) has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Job ID: 670-28871-1 (Continued)

Laboratory: Eurofins Orlando (Continued)

Method 8260D: The laboratory control sample duplicate (LCSD) for analytical batch 680-804257 recovered outside control limits for the following analytes: 1,2,4-Trichlorobenzene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D: The laboratory control sample duplicate (LCSD) for analytical batch 680-804257 recovered outside control limits for the following analyte(s): Dichlorodifluoromethane. Dichlorodifluoromethane has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260D: The following samples were diluted to bring the concentration of target analytes within the calibration range: LC34-DPT0995-018.0-20231017 (670-28871-3), LC34-DPT0996-038.0-20231018 (670-28871-12) and LC34-DPT0997-032.0-20231018 (670-28871-14). Elevated reporting limits (RLs) are provided.

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-804257.

Method 8260D: The continuing calibration verification (CCV) analyzed in batch 680-804471 was outside the method criteria for the following analyte(s): Vinyl chloride. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8260D: The continuing calibration verification (CCV) associated with batch 680-804471 recovered above the upper control limit for 1,2,4-Trichlorobenzene, 2-Butanone (MEK), Bromomethane, Chloroethane, Chloromethane, Dichlorodifluoromethane, Methylene Chloride and Vinyl chloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: LC34-DPT0997-038.0-20231018 (670-28871-13) and (CCVIS 680-804471/3).

Method 8260D: The RPD of the laboratory control sample (LCS) and/or laboratory control sample duplicate (LCSD) for analytical batch 680-804471 recovered outside control limits for the following analytes: 1,2,4-Trichlorobenzene, 2-Butanone (MEK) and Dichlorodifluoromethane.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28871-1

Client Sample ID: LC34-DPT0995-008.0-20231017 — Lab Sample ID: 670-28871-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.8		1.0	0.25	ug/L	1		8260D	Total/NA
Trichloroethene	35		1.0	0.20	ug/L	1		8260D	Total/NA
Vinyl chloride	0.44	I	1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0995-013.0-20231017 — Lab Sample ID: 670-28871-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	6.5		1.0	0.25	ug/L	1		8260D	Total/NA
Trichloroethene	29		1.0	0.20	ug/L	1		8260D	Total/NA
Vinyl chloride	10		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0995-018.0-20231017 — Lab Sample ID: 670-28871-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	500		10	2.5	ug/L	10		8260D	Total/NA
trans-1,2-Dichloroethene	15		10	3.4	ug/L	10		8260D	Total/NA
Trichloroethene	3.8	I	10	2.0	ug/L	10		8260D	Total/NA
Vinyl chloride	1400		10	4.0	ug/L	10		8260D	Total/NA

Client Sample ID: LC34-DPT0995-025.0-20231017 — Lab Sample ID: 670-28871-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	24	I	50	17	ug/L	50		8260D	Total/NA
1,2,4-Trichlorobenzene	28	I	250	27	ug/L	50		8260D	Total/NA
Carbon disulfide	96	I	100	22	ug/L	50		8260D	Total/NA
cis-1,2-Dichloroethene	4000		50	13	ug/L	50		8260D	Total/NA
trans-1,2-Dichloroethene	130		50	17	ug/L	50		8260D	Total/NA
Trichloroethene	27	I	50	10	ug/L	50		8260D	Total/NA
Vinyl chloride	7000		50	20	ug/L	50		8260D	Total/NA

Client Sample ID: LC34-DPT0995-034.0-20231017 — Lab Sample ID: 670-28871-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	250		50	13	ug/L	50		8260D	Total/NA
trans-1,2-Dichloroethene	24	I	50	17	ug/L	50		8260D	Total/NA
Vinyl chloride	6800		50	20	ug/L	50		8260D	Total/NA

Client Sample ID: LC34-DPT0995-038.0-20231017 — Lab Sample ID: 670-28871-6

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	13	I	20	4.3	ug/L	10		8260D	Total/NA
cis-1,2-Dichloroethene	5.4	I	10	2.5	ug/L	10		8260D	Total/NA
Vinyl chloride - DL	2300		25	10	ug/L	25		8260D	Total/NA

Client Sample ID: LC34-DPT0996-008.0-20231017 — Lab Sample ID: 670-28871-7

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.3		1.0	0.25	ug/L	1		8260D	Total/NA
Trichloroethene	6.6		1.0	0.20	ug/L	1		8260D	Total/NA
Vinyl chloride	1.0		1.0	0.40	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28871-1

Client Sample ID: LC34-DPT0996-013.0-20231017 — Lab Sample ID: 670-28871-8

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	3.6		1.0	0.25	ug/L	1		8260D	Total/NA
Trichloroethene	8.7		1.0	0.20	ug/L	1		8260D	Total/NA
Vinyl chloride	2.2		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0996-018.0-20231017 — Lab Sample ID: 670-28871-9

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	3.9		1.0	0.25	ug/L	1		8260D	Total/NA
Trichloroethene	5.1		1.0	0.20	ug/L	1		8260D	Total/NA
Vinyl chloride	1.3		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0996-025.0-20231018 — Lab Sample ID: 670-28871-10

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	33		1.0	0.25	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	1.3		1.0	0.34	ug/L	1		8260D	Total/NA
Vinyl chloride	3.3		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0996-034.0-20231018 — Lab Sample ID: 670-28871-11

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	0.75	I	1.0	0.33	ug/L	1		8260D	Total/NA
Carbon disulfide	1.0	I	2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	160		1.0	0.25	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	21		1.0	0.34	ug/L	1		8260D	Total/NA
Vinyl chloride	180		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0996-038.0-20231018 — Lab Sample ID: 670-28871-12

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	5400		50	13	ug/L	50		8260D	Total/NA
trans-1,2-Dichloroethene	79		50	17	ug/L	50		8260D	Total/NA
Vinyl chloride	7200		50	20	ug/L	50		8260D	Total/NA

Client Sample ID: LC34-DPT0997-038.0-20231018 — Lab Sample ID: 670-28871-13

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	1.0	I	2.0	0.43	ug/L	1		8260D	Total/NA
Trichloroethene	1.2		1.0	0.20	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0997-032.0-20231018 — Lab Sample ID: 670-28871-14

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1700		25	6.3	ug/L	25		8260D	Total/NA
trans-1,2-Dichloroethene	8.6	I	25	8.5	ug/L	25		8260D	Total/NA
Vinyl chloride	590		25	10	ug/L	25		8260D	Total/NA

Client Sample ID: LC34-DPT0997-025.0-20231018 — Lab Sample ID: 670-28871-15

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	370		2.0	0.50	ug/L	2		8260D	Total/NA
trans-1,2-Dichloroethene	1.4	I	2.0	0.68	ug/L	2		8260D	Total/NA
Vinyl chloride	440		10	4.0	ug/L	10		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28871-1

Client Sample ID: LC34-DPT0997-018.0-20231018 — Lab Sample ID: 670-28871-16

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	31		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	11		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0997-013.0-20231018 — Lab Sample ID: 670-28871-17

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	20		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	7.1		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0997-008.0-20231018 — Lab Sample ID: 670-28871-18

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	13		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	4.6		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0998-038.0-20231018 — Lab Sample ID: 670-28871-19

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	1.1	I	2.0	0.43	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0998-032.0-20231018 — Lab Sample ID: 670-28871-20

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	1.3	I	2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.61	I	1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	0.53	I	1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0998-025.0-20231018 — Lab Sample ID: 670-28871-21

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	700		25	6.3	ug/L	25		8260D	Total/NA
trans-1,2-Dichloroethene	1.8	I	5.0	1.7	ug/L	5		8260D	Total/NA
Vinyl chloride	1100		25	10	ug/L	25		8260D	Total/NA

Client Sample ID: LC34-DPT0998-018.0-20231018 — Lab Sample ID: 670-28871-22

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	26		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	38		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0998-013.0-20231018 — Lab Sample ID: 670-28871-23

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	6.3		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	7.2		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0998-008.0-20231018 — Lab Sample ID: 670-28871-24

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.2		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	2.8		1.0	0.40	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28871-1

Client Sample ID: LC34-DPT0995-008.0-20231017
Date Collected: 10/17/23 14:40
Date Received: 10/19/23 08:00

Lab Sample ID: 670-28871-1
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/24/23 14:22	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/24/23 14:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/24/23 14:22	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/24/23 14:22	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/24/23 14:22	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/24/23 14:22	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/24/23 14:22	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/24/23 14:22	1
1,2-Dibromoethane (EDB)	0.33	U	2.0	0.33	ug/L			10/24/23 14:22	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/24/23 14:22	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/24/23 14:22	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/24/23 14:22	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/24/23 14:22	1
1,4-Dichlorobenzene	0.31	U	2.0	0.31	ug/L			10/24/23 14:22	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/24/23 14:22	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/24/23 14:22	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			10/24/23 14:22	1
Acetone	3.7	U J3	10	3.7	ug/L			10/24/23 14:22	1
Benzene	0.27	U	1.0	0.27	ug/L			10/24/23 14:22	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/24/23 14:22	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/24/23 14:22	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/24/23 14:22	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/24/23 14:22	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/24/23 14:22	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/24/23 14:22	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/24/23 14:22	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/24/23 14:22	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/24/23 14:22	1
cis-1,2-Dichloroethene	**2.8**		1.0	0.25	ug/L			10/24/23 14:22	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/24/23 14:22	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/24/23 14:22	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/24/23 14:22	1
Dichlorodifluoromethane	0.36	U J3	1.0	0.36	ug/L			10/24/23 14:22	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/24/23 14:22	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/24/23 14:22	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/24/23 14:22	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/24/23 14:22	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/24/23 14:22	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/24/23 14:22	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/24/23 14:22	1
Styrene	0.27	U	1.0	0.27	ug/L			10/24/23 14:22	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/24/23 14:22	1
Toluene	0.25	U	1.0	0.25	ug/L			10/24/23 14:22	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/24/23 14:22	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/24/23 14:22	1
Trichloroethene	**35**		1.0	0.20	ug/L			10/24/23 14:22	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/24/23 14:22	1
Vinyl chloride	**0.44**	**I**	1.0	0.40	ug/L			10/24/23 18:10	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/24/23 14:22	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28871-1

Client Sample ID: LC34-DPT0995-008.0-20231017

Lab Sample ID: 670-28871-1

Date Collected: 10/17/23 14:40
Matrix: Water
Date Received: 10/19/23 08:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		60 - 124		10/24/23 14:22	1
1,2-Dichloroethane-d4 (Surr)	91		60 - 124		10/24/23 18:10	1
4-Bromofluorobenzene (Surr)	85		70 - 130		10/24/23 14:22	1
4-Bromofluorobenzene (Surr)	101		70 - 130		10/24/23 18:10	1
Dibromofluoromethane (Surr)	107		70 - 130		10/24/23 14:22	1
Dibromofluoromethane (Surr)	104		70 - 130		10/24/23 18:10	1
Toluene-d8 (Surr)	110		70 - 130		10/24/23 14:22	1
Toluene-d8 (Surr)	101		70 - 130		10/24/23 18:10	1

Client Sample ID: LC34-DPT0995-013.0-20231017

Lab Sample ID: 670-28871-2

Date Collected: 10/17/23 14:50
Matrix: Water
Date Received: 10/19/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/24/23 14:43	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/24/23 14:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/24/23 14:43	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/24/23 14:43	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/24/23 14:43	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/24/23 14:43	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/24/23 14:43	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/24/23 14:43	1
1,2-Dibromoethane (EDB)	0.33	U	2.0	0.33	ug/L			10/24/23 14:43	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/24/23 14:43	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/24/23 14:43	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/24/23 14:43	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/24/23 14:43	1
1,4-Dichlorobenzene	0.31	U	2.0	0.31	ug/L			10/24/23 14:43	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/24/23 14:43	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/24/23 14:43	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			10/24/23 14:43	1
Acetone	3.7	U J3	10	3.7	ug/L			10/24/23 14:43	1
Benzene	0.27	U	1.0	0.27	ug/L			10/24/23 14:43	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/24/23 14:43	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/24/23 14:43	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/24/23 14:43	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/24/23 14:43	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/24/23 14:43	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/24/23 14:43	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/24/23 14:43	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/24/23 14:43	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/24/23 14:43	1
cis-1,2-Dichloroethene	**6.5**		1.0	0.25	ug/L			10/24/23 14:43	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/24/23 14:43	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/24/23 14:43	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/24/23 14:43	1
Dichlorodifluoromethane	0.36	U J3	1.0	0.36	ug/L			10/24/23 14:43	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/24/23 14:43	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/24/23 14:43	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28871-1

Client Sample ID: LC34-DPT0995-013.0-20231017

Lab Sample ID: 670-28871-2
Matrix: Water
Date Collected: 10/17/23 14:50
Date Received: 10/19/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/24/23 14:43	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/24/23 14:43	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/24/23 14:43	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/24/23 14:43	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/24/23 14:43	1
Styrene	0.27	U	1.0	0.27	ug/L			10/24/23 14:43	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/24/23 14:43	1
Toluene	0.25	U	1.0	0.25	ug/L			10/24/23 14:43	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/24/23 14:43	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/24/23 14:43	1
Trichloroethene	**29**		1.0	0.20	ug/L			10/24/23 14:43	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/24/23 14:43	1
Vinyl chloride	**10**		1.0	0.40	ug/L			10/24/23 14:43	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/24/23 14:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*60 - 124*		*10/24/23 14:43*	*1*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*		*10/24/23 14:43*	*1*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*10/24/23 14:43*	*1*
Toluene-d8 (Surr)	*112*		*70 - 130*		*10/24/23 14:43*	*1*

Client Sample ID: LC34-DPT0995-018.0-20231017

Lab Sample ID: 670-28871-3
Matrix: Water
Date Collected: 10/17/23 15:05
Date Received: 10/19/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2.1	U	10	2.1	ug/L			10/24/23 18:51	10
1,1,2,2-Tetrachloroethane	4.0	U	10	4.0	ug/L			10/24/23 18:51	10
1,1,2-Trichloro-1,2,2-trifluoroethane	2.3	U	10	2.3	ug/L			10/24/23 18:51	10
1,1,2-Trichloroethane	3.2	U	10	3.2	ug/L			10/24/23 18:51	10
1,1-Dichloroethane	3.3	U	10	3.3	ug/L			10/24/23 18:51	10
1,1-Dichloroethene	3.3	U	10	3.3	ug/L			10/24/23 18:51	10
1,2,4-Trichlorobenzene	5.3	U J3	50	5.3	ug/L			10/24/23 18:51	10
1,2-Dibromo-3-Chloropropane	18	U	50	18	ug/L			10/24/23 18:51	10
1,2-Dibromoethane (EDB)	3.3	U	20	3.3	ug/L			10/24/23 18:51	10
1,2-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/24/23 18:51	10
1,2-Dichloroethane	2.5	U	10	2.5	ug/L			10/24/23 18:51	10
1,2-Dichloropropane	2.2	U	10	2.2	ug/L			10/24/23 18:51	10
1,3-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/24/23 18:51	10
1,4-Dichlorobenzene	3.1	U	20	3.1	ug/L			10/24/23 18:51	10
2-Butanone (MEK)	64	U J3	100	64	ug/L			10/24/23 18:51	10
2-Hexanone	32	U	100	32	ug/L			10/24/23 18:51	10
4-Methyl-2-pentanone	27	U	100	27	ug/L			10/24/23 18:51	10
Acetone	37	U	100	37	ug/L			10/24/23 18:51	10
Benzene	2.7	U	10	2.7	ug/L			10/24/23 18:51	10
Bromodichloromethane	2.5	U	10	2.5	ug/L			10/24/23 18:51	10
Bromoform	5.9	U	10	5.9	ug/L			10/24/23 18:51	10
Bromomethane	37	U	50	37	ug/L			10/24/23 18:51	10
Carbon disulfide	4.3	U	20	4.3	ug/L			10/24/23 18:51	10

Client Sample ID: LC34-DPT0995-018.0-20231017

Lab Sample ID: 670-28871-3

Date Collected: 10/17/23 15:05

Matrix: Water

Date Received: 10/19/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	3.0	U	10	3.0	ug/L			10/24/23 18:51	10
Chlorobenzene	1.5	U	10	1.5	ug/L			10/24/23 18:51	10
Chloroethane	46	U	50	46	ug/L			10/24/23 18:51	10
Chloroform	2.7	U	10	2.7	ug/L			10/24/23 18:51	10
Chloromethane	5.4	U	10	5.4	ug/L			10/24/23 18:51	10
cis-1,2-Dichloroethene	**500**		10	2.5	ug/L			10/24/23 18:51	10
cis-1,3-Dichloropropene	2.6	U	10	2.6	ug/L			10/24/23 18:51	10
Cyclohexane	2.8	U	10	2.8	ug/L			10/24/23 18:51	10
Dibromochloromethane	3.9	U	10	3.9	ug/L			10/24/23 18:51	10
Dichlorodifluoromethane	3.6	U J3	10	3.6	ug/L			10/24/23 18:51	10
Ethylbenzene	2.0	U	10	2.0	ug/L			10/24/23 18:51	10
Isopropylbenzene	2.6	U	10	2.6	ug/L			10/24/23 18:51	10
m,p-Xylenes	4.9	U	10	4.9	ug/L			10/24/23 18:51	10
Methyl acetate	32	U	50	32	ug/L			10/24/23 18:51	10
Methyl tert-butyl ether	8.1	U	50	8.1	ug/L			10/24/23 18:51	10
Methylene Chloride	32	U	50	32	ug/L			10/24/23 18:51	10
o-Xylene	2.6	U	10	2.6	ug/L			10/24/23 18:51	10
Styrene	2.7	U	10	2.7	ug/L			10/24/23 18:51	10
Tetrachloroethene	3.5	U	10	3.5	ug/L			10/24/23 18:51	10
Toluene	2.5	U	10	2.5	ug/L			10/24/23 18:51	10
trans-1,2-Dichloroethene	**15**		10	3.4	ug/L			10/24/23 18:51	10
trans-1,3-Dichloropropene	2.3	U	10	2.3	ug/L			10/24/23 18:51	10
Trichloroethene	**3.8**	**I**	10	2.0	ug/L			10/24/23 18:51	10
Trichlorofluoromethane	3.3	U	10	3.3	ug/L			10/24/23 18:51	10
Vinyl chloride	**1400**		10	4.0	ug/L			10/24/23 18:51	10
Xylenes, Total	2.3	U	10	2.3	ug/L			10/24/23 18:51	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*60 - 124*		*10/24/23 18:51*	*10*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*10/24/23 18:51*	*10*
Dibromofluoromethane (Surr)	*105*		*70 - 130*		*10/24/23 18:51*	*10*
Toluene-d8 (Surr)	*102*		*70 - 130*		*10/24/23 18:51*	*10*

Client Sample ID: LC34-DPT0995-025.0-20231017

Lab Sample ID: 670-28871-4

Date Collected: 10/17/23 15:20

Matrix: Water

Date Received: 10/19/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	11	U	50	11	ug/L			10/24/23 13:17	50
1,1,2,2-Tetrachloroethane	20	U	50	20	ug/L			10/24/23 13:17	50
1,1,2-Trichloro-1,2,2-trifluoroethane	12	U	50	12	ug/L			10/24/23 13:17	50
1,1,2-Trichloroethane	16	U	50	16	ug/L			10/24/23 13:17	50
1,1-Dichloroethane	17	U	50	17	ug/L			10/24/23 13:17	50
1,1-Dichloroethene	**24**	**I**	50	17	ug/L			10/24/23 13:17	50
1,2,4-Trichlorobenzene	**28**	**I**	250	27	ug/L			10/24/23 13:17	50
1,2-Dibromo-3-Chloropropane	90	U	250	90	ug/L			10/24/23 13:17	50
1,2-Dibromoethane (EDB)	17	U	100	17	ug/L			10/24/23 13:17	50
1,2-Dichlorobenzene	16	U	50	16	ug/L			10/24/23 13:17	50
1,2-Dichloroethane	13	U	50	13	ug/L			10/24/23 13:17	50

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28871-1

Client Sample ID: LC34-DPT0995-025.0-20231017
Date Collected: 10/17/23 15:20
Date Received: 10/19/23 08:00

Lab Sample ID: 670-28871-4
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	11	U	50	11	ug/L			10/24/23 13:17	50
1,3-Dichlorobenzene	16	U	50	16	ug/L			10/24/23 13:17	50
1,4-Dichlorobenzene	16	U	100	16	ug/L			10/24/23 13:17	50
2-Butanone (MEK)	320	U	500	320	ug/L			10/24/23 13:17	50
2-Hexanone	160	U	500	160	ug/L			10/24/23 13:17	50
4-Methyl-2-pentanone	140	U J3	500	140	ug/L			10/24/23 13:17	50
Acetone	190	U J3	500	190	ug/L			10/24/23 13:17	50
Benzene	14	U	50	14	ug/L			10/24/23 13:17	50
Bromodichloromethane	13	U	50	13	ug/L			10/24/23 13:17	50
Bromoform	30	U	50	30	ug/L			10/24/23 13:17	50
Bromomethane	190	U	250	190	ug/L			10/24/23 13:17	50
Carbon disulfide	**96**	**I**	100	22	ug/L			10/24/23 13:17	50
Carbon tetrachloride	15	U	50	15	ug/L			10/24/23 13:17	50
Chlorobenzene	7.5	U	50	7.5	ug/L			10/24/23 13:17	50
Chloroethane	230	U	250	230	ug/L			10/24/23 13:17	50
Chloroform	14	U	50	14	ug/L			10/24/23 13:17	50
Chloromethane	27	U	50	27	ug/L			10/24/23 13:17	50
cis-1,2-Dichloroethene	**4000**		50	13	ug/L			10/24/23 13:17	50
cis-1,3-Dichloropropene	13	U	50	13	ug/L			10/24/23 13:17	50
Cyclohexane	14	U	50	14	ug/L			10/24/23 13:17	50
Dibromochloromethane	20	U	50	20	ug/L			10/24/23 13:17	50
Dichlorodifluoromethane	18	U J3	50	18	ug/L			10/24/23 13:17	50
Ethylbenzene	10	U	50	10	ug/L			10/24/23 13:17	50
Isopropylbenzene	13	U	50	13	ug/L			10/24/23 13:17	50
m,p-Xylenes	25	U	50	25	ug/L			10/24/23 13:17	50
Methyl acetate	160	U	250	160	ug/L			10/24/23 13:17	50
Methyl tert-butyl ether	41	U	250	41	ug/L			10/24/23 13:17	50
Methylene Chloride	160	U	250	160	ug/L			10/24/23 13:17	50
o-Xylene	13	U	50	13	ug/L			10/24/23 13:17	50
Styrene	14	U	50	14	ug/L			10/24/23 13:17	50
Tetrachloroethene	18	U	50	18	ug/L			10/24/23 13:17	50
Toluene	13	U	50	13	ug/L			10/24/23 13:17	50
trans-1,2-Dichloroethene	**130**		50	17	ug/L			10/24/23 13:17	50
trans-1,3-Dichloropropene	12	U	50	12	ug/L			10/24/23 13:17	50
Trichloroethene	**27**	**I**	50	10	ug/L			10/24/23 13:17	50
Trichlorofluoromethane	17	U	50	17	ug/L			10/24/23 13:17	50
Vinyl chloride	**7000**		50	20	ug/L			10/24/23 13:17	50
Xylenes, Total	12	U	50	12	ug/L			10/24/23 13:17	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*60 - 124*		*10/24/23 13:17*	*50*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*		*10/24/23 13:17*	*50*
Dibromofluoromethane (Surr)	*107*		*70 - 130*		*10/24/23 13:17*	*50*
Toluene-d8 (Surr)	*111*		*70 - 130*		*10/24/23 13:17*	*50*

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28871-1

Client Sample ID: LC34-DPT0995-034.0-20231017
Date Collected: 10/17/23 15:35
Date Received: 10/19/23 08:00

Lab Sample ID: 670-28871-5
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	11	U	50	11	ug/L			10/24/23 13:38	50
1,1,2,2-Tetrachloroethane	20	U	50	20	ug/L			10/24/23 13:38	50
1,1,2-Trichloro-1,2,2-trifluoroethane	12	U	50	12	ug/L			10/24/23 13:38	50
1,1,2-Trichloroethane	16	U	50	16	ug/L			10/24/23 13:38	50
1,1-Dichloroethane	17	U	50	17	ug/L			10/24/23 13:38	50
1,1-Dichloroethene	17	U	50	17	ug/L			10/24/23 13:38	50
1,2,4-Trichlorobenzene	27	U	250	27	ug/L			10/24/23 13:38	50
1,2-Dibromo-3-Chloropropane	90	U	250	90	ug/L			10/24/23 13:38	50
1,2-Dibromoethane (EDB)	17	U	100	17	ug/L			10/24/23 13:38	50
1,2-Dichlorobenzene	16	U	50	16	ug/L			10/24/23 13:38	50
1,2-Dichloroethane	13	U	50	13	ug/L			10/24/23 13:38	50
1,2-Dichloropropane	11	U	50	11	ug/L			10/24/23 13:38	50
1,3-Dichlorobenzene	16	U	50	16	ug/L			10/24/23 13:38	50
1,4-Dichlorobenzene	16	U	100	16	ug/L			10/24/23 13:38	50
2-Butanone (MEK)	320	U	500	320	ug/L			10/24/23 13:38	50
2-Hexanone	160	U	500	160	ug/L			10/24/23 13:38	50
4-Methyl-2-pentanone	140	U J3	500	140	ug/L			10/24/23 13:38	50
Acetone	190	U J3	500	190	ug/L			10/24/23 13:38	50
Benzene	14	U	50	14	ug/L			10/24/23 13:38	50
Bromodichloromethane	13	U	50	13	ug/L			10/24/23 13:38	50
Bromoform	30	U	50	30	ug/L			10/24/23 13:38	50
Bromomethane	190	U	250	190	ug/L			10/24/23 13:38	50
Carbon disulfide	22	U	100	22	ug/L			10/24/23 13:38	50
Carbon tetrachloride	15	U	50	15	ug/L			10/24/23 13:38	50
Chlorobenzene	7.5	U	50	7.5	ug/L			10/24/23 13:38	50
Chloroethane	230	U	250	230	ug/L			10/24/23 13:38	50
Chloroform	14	U	50	14	ug/L			10/24/23 13:38	50
Chloromethane	27	U	50	27	ug/L			10/24/23 13:38	50
cis-1,2-Dichloroethene	**250**		50	13	ug/L			10/24/23 13:38	50
cis-1,3-Dichloropropene	13	U	50	13	ug/L			10/24/23 13:38	50
Cyclohexane	14	U	50	14	ug/L			10/24/23 13:38	50
Dibromochloromethane	20	U	50	20	ug/L			10/24/23 13:38	50
Dichlorodifluoromethane	18	U J3	50	18	ug/L			10/24/23 13:38	50
Ethylbenzene	10	U	50	10	ug/L			10/24/23 13:38	50
Isopropylbenzene	13	U	50	13	ug/L			10/24/23 13:38	50
m,p-Xylenes	25	U	50	25	ug/L			10/24/23 13:38	50
Methyl acetate	160	U	250	160	ug/L			10/24/23 13:38	50
Methyl tert-butyl ether	41	U	250	41	ug/L			10/24/23 13:38	50
Methylene Chloride	160	U	250	160	ug/L			10/24/23 13:38	50
o-Xylene	13	U	50	13	ug/L			10/24/23 13:38	50
Styrene	14	U	50	14	ug/L			10/24/23 13:38	50
Tetrachloroethene	18	U	50	18	ug/L			10/24/23 13:38	50
Toluene	13	U	50	13	ug/L			10/24/23 13:38	50
trans-1,2-Dichloroethene	**24**	**I**	50	17	ug/L			10/24/23 13:38	50
trans-1,3-Dichloropropene	12	U	50	12	ug/L			10/24/23 13:38	50
Trichloroethene	10	U	50	10	ug/L			10/24/23 13:38	50
Trichlorofluoromethane	17	U	50	17	ug/L			10/24/23 13:38	50
Vinyl chloride	**6800**		50	20	ug/L			10/24/23 13:38	50
Xylenes, Total	12	U	50	12	ug/L			10/24/23 13:38	50

Client Sample ID: LC34-DPT0995-034.0-20231017
Lab Sample ID: 670-28871-5

Date Collected: 10/17/23 15:35
Matrix: Water
Date Received: 10/19/23 08:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*60 - 124*		*10/24/23 13:38*	*50*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*		*10/24/23 13:38*	*50*
Dibromofluoromethane (Surr)	*107*		*70 - 130*		*10/24/23 13:38*	*50*
Toluene-d8 (Surr)	*112*		*70 - 130*		*10/24/23 13:38*	*50*

Client Sample ID: LC34-DPT0995-038.0-20231017
Lab Sample ID: 670-28871-6

Date Collected: 10/17/23 15:55
Matrix: Water
Date Received: 10/19/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2.1	U	10	2.1	ug/L			10/24/23 14:00	10
1,1,2,2-Tetrachloroethane	4.0	U	10	4.0	ug/L			10/24/23 14:00	10
1,1,2-Trichloro-1,2,2-trifluoroethane	2.3	U	10	2.3	ug/L			10/24/23 14:00	10
1,1,2-Trichloroethane	3.2	U	10	3.2	ug/L			10/24/23 14:00	10
1,1-Dichloroethane	3.3	U	10	3.3	ug/L			10/24/23 14:00	10
1,1-Dichloroethene	3.3	U	10	3.3	ug/L			10/24/23 14:00	10
1,2,4-Trichlorobenzene	5.3	U	50	5.3	ug/L			10/24/23 14:00	10
1,2-Dibromo-3-Chloropropane	18	U	50	18	ug/L			10/24/23 14:00	10
1,2-Dibromoethane (EDB)	3.3	U	20	3.3	ug/L			10/24/23 14:00	10
1,2-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/24/23 14:00	10
1,2-Dichloroethane	2.5	U	10	2.5	ug/L			10/24/23 14:00	10
1,2-Dichloropropane	2.2	U	10	2.2	ug/L			10/24/23 14:00	10
1,3-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/24/23 14:00	10
1,4-Dichlorobenzene	3.1	U	20	3.1	ug/L			10/24/23 14:00	10
2-Butanone (MEK)	64	U	100	64	ug/L			10/24/23 14:00	10
2-Hexanone	32	U	100	32	ug/L			10/24/23 14:00	10
4-Methyl-2-pentanone	27	U J3	100	27	ug/L			10/24/23 14:00	10
Acetone	37	U J3	100	37	ug/L			10/24/23 14:00	10
Benzene	2.7	U	10	2.7	ug/L			10/24/23 14:00	10
Bromodichloromethane	2.5	U	10	2.5	ug/L			10/24/23 14:00	10
Bromoform	5.9	U	10	5.9	ug/L			10/24/23 14:00	10
Bromomethane	37	U	50	37	ug/L			10/24/23 14:00	10
Carbon disulfide	**13**	**I**	20	4.3	ug/L			10/24/23 14:00	10
Carbon tetrachloride	3.0	U	10	3.0	ug/L			10/24/23 14:00	10
Chlorobenzene	1.5	U	10	1.5	ug/L			10/24/23 14:00	10
Chloroethane	46	U	50	46	ug/L			10/24/23 14:00	10
Chloroform	2.7	U	10	2.7	ug/L			10/24/23 14:00	10
Chloromethane	5.4	U	10	5.4	ug/L			10/24/23 14:00	10
cis-1,2-Dichloroethene	**5.4**	**I**	10	2.5	ug/L			10/24/23 14:00	10
cis-1,3-Dichloropropene	2.6	U	10	2.6	ug/L			10/24/23 14:00	10
Cyclohexane	2.8	U	10	2.8	ug/L			10/24/23 14:00	10
Dibromochloromethane	3.9	U	10	3.9	ug/L			10/24/23 14:00	10
Dichlorodifluoromethane	3.6	U J3	10	3.6	ug/L			10/24/23 14:00	10
Ethylbenzene	2.0	U	10	2.0	ug/L			10/24/23 14:00	10
Isopropylbenzene	2.6	U	10	2.6	ug/L			10/24/23 14:00	10
m,p-Xylenes	4.9	U	10	4.9	ug/L			10/24/23 14:00	10
Methyl acetate	32	U	50	32	ug/L			10/24/23 14:00	10
Methyl tert-butyl ether	8.1	U	50	8.1	ug/L			10/24/23 14:00	10
Methylene Chloride	32	U	50	32	ug/L			10/24/23 14:00	10

Client Sample ID: LC34-DPT0995-038.0-20231017

Lab Sample ID: 670-28871-6

Date Collected: 10/17/23 15:55

Matrix: Water

Date Received: 10/19/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	2.6	U	10	2.6	ug/L			10/24/23 14:00	10
Styrene	2.7	U	10	2.7	ug/L			10/24/23 14:00	10
Tetrachloroethene	3.5	U	10	3.5	ug/L			10/24/23 14:00	10
Toluene	2.5	U	10	2.5	ug/L			10/24/23 14:00	10
trans-1,2-Dichloroethene	3.4	U	10	3.4	ug/L			10/24/23 14:00	10
trans-1,3-Dichloropropene	2.3	U	10	2.3	ug/L			10/24/23 14:00	10
Trichloroethene	2.0	U	10	2.0	ug/L			10/24/23 14:00	10
Trichlorofluoromethane	3.3	U	10	3.3	ug/L			10/24/23 14:00	10
Xylenes, Total	2.3	U	10	2.3	ug/L			10/24/23 14:00	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*60 - 124*		*10/24/23 14:00*	*10*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*		*10/24/23 14:00*	*10*
Dibromofluoromethane (Surr)	*110*		*70 - 130*		*10/24/23 14:00*	*10*
Toluene-d8 (Surr)	*112*		*70 - 130*		*10/24/23 14:00*	*10*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	**2300**		25	10	ug/L			10/24/23 17:51	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*60 - 124*		*10/24/23 17:51*	*25*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*10/24/23 17:51*	*25*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*10/24/23 17:51*	*25*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/24/23 17:51*	*25*

Client Sample ID: LC34-DPT0996-008.0-20231017

Lab Sample ID: 670-28871-7

Date Collected: 10/17/23 16:30

Matrix: Water

Date Received: 10/19/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/24/23 15:27	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/24/23 15:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/24/23 15:27	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/24/23 15:27	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/24/23 15:27	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/24/23 15:27	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/24/23 15:27	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/24/23 15:27	1
1,2-Dibromoethane (EDB)	0.33	U	2.0	0.33	ug/L			10/24/23 15:27	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/24/23 15:27	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/24/23 15:27	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/24/23 15:27	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/24/23 15:27	1
1,4-Dichlorobenzene	0.31	U	2.0	0.31	ug/L			10/24/23 15:27	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/24/23 15:27	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/24/23 15:27	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			10/24/23 15:27	1
Acetone	3.7	U J3	10	3.7	ug/L			10/24/23 15:27	1
Benzene	0.27	U	1.0	0.27	ug/L			10/24/23 15:27	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28871-1

Client Sample ID: LC34-DPT0996-008.0-20231017

Lab Sample ID: 670-28871-7
Matrix: Water
Date Collected: 10/17/23 16:30
Date Received: 10/19/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/24/23 15:27	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/24/23 15:27	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/24/23 15:27	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/24/23 15:27	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/24/23 15:27	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/24/23 15:27	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/24/23 15:27	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/24/23 15:27	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/24/23 15:27	1
cis-1,2-Dichloroethene	**2.3**		1.0	0.25	ug/L			10/24/23 15:27	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/24/23 15:27	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/24/23 15:27	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/24/23 15:27	1
Dichlorodifluoromethane	0.36	U J3	1.0	0.36	ug/L			10/24/23 15:27	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/24/23 15:27	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/24/23 15:27	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/24/23 15:27	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/24/23 15:27	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/24/23 15:27	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/24/23 15:27	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/24/23 15:27	1
Styrene	0.27	U	1.0	0.27	ug/L			10/24/23 15:27	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/24/23 15:27	1
Toluene	0.25	U	1.0	0.25	ug/L			10/24/23 15:27	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/24/23 15:27	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/24/23 15:27	1
Trichloroethene	**6.6**		1.0	0.20	ug/L			10/24/23 15:27	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/24/23 15:27	1
Vinyl chloride	**1.0**		1.0	0.40	ug/L			10/24/23 15:27	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/24/23 15:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*60 - 124*		*10/24/23 15:27*	*1*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*		*10/24/23 15:27*	*1*
Dibromofluoromethane (Surr)	*107*		*70 - 130*		*10/24/23 15:27*	*1*
Toluene-d8 (Surr)	*109*		*70 - 130*		*10/24/23 15:27*	*1*

Client Sample ID: LC34-DPT0996-013.0-20231017

Lab Sample ID: 670-28871-8
Matrix: Water
Date Collected: 10/17/23 16:45
Date Received: 10/19/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/24/23 15:48	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/24/23 15:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/24/23 15:48	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/24/23 15:48	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/24/23 15:48	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/24/23 15:48	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/24/23 15:48	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28871-1

Client Sample ID: LC34-DPT0996-013.0-20231017
Date Collected: 10/17/23 16:45
Date Received: 10/19/23 08:00

Lab Sample ID: 670-28871-8
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/24/23 15:48	1
1,2-Dibromoethane (EDB)	0.33	U	2.0	0.33	ug/L			10/24/23 15:48	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/24/23 15:48	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/24/23 15:48	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/24/23 15:48	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/24/23 15:48	1
1,4-Dichlorobenzene	0.31	U	2.0	0.31	ug/L			10/24/23 15:48	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/24/23 15:48	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/24/23 15:48	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			10/24/23 15:48	1
Acetone	3.7	U J3	10	3.7	ug/L			10/24/23 15:48	1
Benzene	0.27	U	1.0	0.27	ug/L			10/24/23 15:48	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/24/23 15:48	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/24/23 15:48	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/24/23 15:48	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/24/23 15:48	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/24/23 15:48	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/24/23 15:48	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/24/23 15:48	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/24/23 15:48	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/24/23 15:48	1
cis-1,2-Dichloroethene	**3.6**		1.0	0.25	ug/L			10/24/23 15:48	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/24/23 15:48	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/24/23 15:48	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/24/23 15:48	1
Dichlorodifluoromethane	0.36	U J3	1.0	0.36	ug/L			10/24/23 15:48	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/24/23 15:48	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/24/23 15:48	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/24/23 15:48	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/24/23 15:48	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/24/23 15:48	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/24/23 15:48	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/24/23 15:48	1
Styrene	0.27	U	1.0	0.27	ug/L			10/24/23 15:48	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/24/23 15:48	1
Toluene	0.25	U	1.0	0.25	ug/L			10/24/23 15:48	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/24/23 15:48	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/24/23 15:48	1
Trichloroethene	**8.7**		1.0	0.20	ug/L			10/24/23 15:48	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/24/23 15:48	1
Vinyl chloride	**2.2**		1.0	0.40	ug/L			10/24/23 15:48	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/24/23 15:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*60 - 124*		*10/24/23 15:48*	*1*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*		*10/24/23 15:48*	*1*
Dibromofluoromethane (Surr)	*110*		*70 - 130*		*10/24/23 15:48*	*1*
Toluene-d8 (Surr)	*112*		*70 - 130*		*10/24/23 15:48*	*1*

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28871-1

Client Sample ID: LC34-DPT0996-018.0-20231017

Date Collected: 10/17/23 17:00
Date Received: 10/19/23 08:00

Lab Sample ID: 670-28871-9

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/24/23 16:10	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/24/23 16:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/24/23 16:10	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/24/23 16:10	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/24/23 16:10	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/24/23 16:10	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/24/23 16:10	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/24/23 16:10	1
1,2-Dibromoethane (EDB)	0.33	U	2.0	0.33	ug/L			10/24/23 16:10	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/24/23 16:10	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/24/23 16:10	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/24/23 16:10	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/24/23 16:10	1
1,4-Dichlorobenzene	0.31	U	2.0	0.31	ug/L			10/24/23 16:10	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/24/23 16:10	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/24/23 16:10	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			10/24/23 16:10	1
Acetone	3.7	U J3	10	3.7	ug/L			10/24/23 16:10	1
Benzene	0.27	U	1.0	0.27	ug/L			10/24/23 16:10	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/24/23 16:10	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/24/23 16:10	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/24/23 16:10	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/24/23 16:10	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/24/23 16:10	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/24/23 16:10	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/24/23 16:10	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/24/23 16:10	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/24/23 16:10	1
cis-1,2-Dichloroethene	**3.9**		1.0	0.25	ug/L			10/24/23 16:10	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/24/23 16:10	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/24/23 16:10	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/24/23 16:10	1
Dichlorodifluoromethane	0.36	U J3	1.0	0.36	ug/L			10/24/23 16:10	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/24/23 16:10	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/24/23 16:10	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/24/23 16:10	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/24/23 16:10	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/24/23 16:10	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/24/23 16:10	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/24/23 16:10	1
Styrene	0.27	U	1.0	0.27	ug/L			10/24/23 16:10	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/24/23 16:10	1
Toluene	0.25	U	1.0	0.25	ug/L			10/24/23 16:10	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/24/23 16:10	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/24/23 16:10	1
Trichloroethene	**5.1**		1.0	0.20	ug/L			10/24/23 16:10	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/24/23 16:10	1
Vinyl chloride	**1.3**		1.0	0.40	ug/L			10/24/23 16:10	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/24/23 16:10	1

Client Sample ID: LC34-DPT0996-018.0-20231017

Lab Sample ID: 670-28871-9

Date Collected: 10/17/23 17:00

Matrix: Water

Date Received: 10/19/23 08:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*60 - 124*		*10/24/23 16:10*	*1*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*		*10/24/23 16:10*	*1*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*10/24/23 16:10*	*1*
Toluene-d8 (Surr)	*111*		*70 - 130*		*10/24/23 16:10*	*1*

Client Sample ID: LC34-DPT0996-025.0-20231018

Lab Sample ID: 670-28871-10

Date Collected: 10/18/23 07:45

Matrix: Water

Date Received: 10/19/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/24/23 16:31	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/24/23 16:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/24/23 16:31	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/24/23 16:31	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/24/23 16:31	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/24/23 16:31	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/24/23 16:31	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/24/23 16:31	1
1,2-Dibromoethane (EDB)	0.33	U	2.0	0.33	ug/L			10/24/23 16:31	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/24/23 16:31	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/24/23 16:31	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/24/23 16:31	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/24/23 16:31	1
1,4-Dichlorobenzene	0.31	U	2.0	0.31	ug/L			10/24/23 16:31	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/24/23 16:31	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/24/23 16:31	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			10/24/23 16:31	1
Acetone	3.7	U J3	10	3.7	ug/L			10/24/23 16:31	1
Benzene	0.27	U	1.0	0.27	ug/L			10/24/23 16:31	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/24/23 16:31	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/24/23 16:31	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/24/23 16:31	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/24/23 16:31	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/24/23 16:31	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/24/23 16:31	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/24/23 16:31	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/24/23 16:31	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/24/23 16:31	1
cis-1,2-Dichloroethene	**33**		1.0	0.25	ug/L			10/24/23 16:31	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/24/23 16:31	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/24/23 16:31	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/24/23 16:31	1
Dichlorodifluoromethane	0.36	U J3	1.0	0.36	ug/L			10/24/23 16:31	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/24/23 16:31	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/24/23 16:31	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/24/23 16:31	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/24/23 16:31	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/24/23 16:31	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/24/23 16:31	1

Client Sample ID: LC34-DPT0996-025.0-20231018
Lab Sample ID: 670-28871-10
Date Collected: 10/18/23 07:45
Matrix: Water
Date Received: 10/19/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	0.26	U	1.0	0.26	ug/L			10/24/23 16:31	1
Styrene	0.27	U	1.0	0.27	ug/L			10/24/23 16:31	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/24/23 16:31	1
Toluene	0.25	U	1.0	0.25	ug/L			10/24/23 16:31	1
trans-1,2-Dichloroethene	**1.3**		1.0	0.34	ug/L			10/24/23 16:31	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/24/23 16:31	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/24/23 16:31	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/24/23 16:31	1
Vinyl chloride	**3.3**		1.0	0.40	ug/L			10/24/23 16:31	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/24/23 16:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*60 - 124*		*10/24/23 16:31*	*1*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*		*10/24/23 16:31*	*1*
Dibromofluoromethane (Surr)	*108*		*70 - 130*		*10/24/23 16:31*	*1*
Toluene-d8 (Surr)	*112*		*70 - 130*		*10/24/23 16:31*	*1*

Client Sample ID: LC34-DPT0996-034.0-20231018
Lab Sample ID: 670-28871-11
Date Collected: 10/18/23 08:00
Matrix: Water
Date Received: 10/19/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/24/23 16:53	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/24/23 16:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/24/23 16:53	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/24/23 16:53	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/24/23 16:53	1
1,1-Dichloroethene	**0.75**	**I**	1.0	0.33	ug/L			10/24/23 16:53	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/24/23 16:53	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/24/23 16:53	1
1,2-Dibromoethane (EDB)	0.33	U	2.0	0.33	ug/L			10/24/23 16:53	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/24/23 16:53	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/24/23 16:53	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/24/23 16:53	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/24/23 16:53	1
1,4-Dichlorobenzene	0.31	U	2.0	0.31	ug/L			10/24/23 16:53	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/24/23 16:53	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/24/23 16:53	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			10/24/23 16:53	1
Acetone	3.7	U J3	10	3.7	ug/L			10/24/23 16:53	1
Benzene	0.27	U	1.0	0.27	ug/L			10/24/23 16:53	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/24/23 16:53	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/24/23 16:53	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/24/23 16:53	1
Carbon disulfide	**1.0**	**I**	2.0	0.43	ug/L			10/24/23 16:53	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/24/23 16:53	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/24/23 16:53	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/24/23 16:53	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/24/23 16:53	1

Client Sample ID: LC34-DPT0996-034.0-20231018

Lab Sample ID: 670-28871-11

Date Collected: 10/18/23 08:00

Matrix: Water

Date Received: 10/19/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	0.54	U	1.0	0.54	ug/L			10/24/23 16:53	1
cis-1,2-Dichloroethene	**160**		1.0	0.25	ug/L			10/24/23 16:53	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/24/23 16:53	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/24/23 16:53	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/24/23 16:53	1
Dichlorodifluoromethane	0.36	U J3	1.0	0.36	ug/L			10/24/23 16:53	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/24/23 16:53	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/24/23 16:53	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/24/23 16:53	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/24/23 16:53	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/24/23 16:53	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/24/23 16:53	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/24/23 16:53	1
Styrene	0.27	U	1.0	0.27	ug/L			10/24/23 16:53	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/24/23 16:53	1
Toluene	0.25	U	1.0	0.25	ug/L			10/24/23 16:53	1
trans-1,2-Dichloroethene	**21**		1.0	0.34	ug/L			10/24/23 16:53	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/24/23 16:53	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/24/23 16:53	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/24/23 16:53	1
Vinyl chloride	**180**		1.0	0.40	ug/L			10/24/23 16:53	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/24/23 16:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*60 - 124*		*10/24/23 16:53*	*1*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*		*10/24/23 16:53*	*1*
Dibromofluoromethane (Surr)	*110*		*70 - 130*		*10/24/23 16:53*	*1*
Toluene-d8 (Surr)	*112*		*70 - 130*		*10/24/23 16:53*	*1*

Client Sample ID: LC34-DPT0996-038.0-20231018

Lab Sample ID: 670-28871-12

Date Collected: 10/18/23 08:15

Matrix: Water

Date Received: 10/19/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	11	U	50	11	ug/L			10/24/23 19:33	50
1,1,2,2-Tetrachloroethane	20	U	50	20	ug/L			10/24/23 19:33	50
1,1,2-Trichloro-1,2,2-trifluoroethane	12	U	50	12	ug/L			10/24/23 19:33	50
1,1,2-Trichloroethane	16	U	50	16	ug/L			10/24/23 19:33	50
1,1-Dichloroethane	17	U	50	17	ug/L			10/24/23 19:33	50
1,1-Dichloroethene	17	U	50	17	ug/L			10/24/23 19:33	50
1,2,4-Trichlorobenzene	27	U J3	250	27	ug/L			10/24/23 19:33	50
1,2-Dibromo-3-Chloropropane	90	U	250	90	ug/L			10/24/23 19:33	50
1,2-Dibromoethane (EDB)	17	U	100	17	ug/L			10/24/23 19:33	50
1,2-Dichlorobenzene	16	U	50	16	ug/L			10/24/23 19:33	50
1,2-Dichloroethane	13	U	50	13	ug/L			10/24/23 19:33	50
1,2-Dichloropropane	11	U	50	11	ug/L			10/24/23 19:33	50
1,3-Dichlorobenzene	16	U	50	16	ug/L			10/24/23 19:33	50
1,4-Dichlorobenzene	16	U	100	16	ug/L			10/24/23 19:33	50
2-Butanone (MEK)	320	U J3	500	320	ug/L			10/24/23 19:33	50

Client Sample ID: LC34-DPT0996-038.0-20231018

Lab Sample ID: 670-28871-12

Date Collected: 10/18/23 08:15

Matrix: Water

Date Received: 10/19/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	160	U	500	160	ug/L			10/24/23 19:33	50
4-Methyl-2-pentanone	140	U	500	140	ug/L			10/24/23 19:33	50
Acetone	190	U	500	190	ug/L			10/24/23 19:33	50
Benzene	14	U	50	14	ug/L			10/24/23 19:33	50
Bromodichloromethane	13	U	50	13	ug/L			10/24/23 19:33	50
Bromoform	30	U	50	30	ug/L			10/24/23 19:33	50
Bromomethane	190	U	250	190	ug/L			10/24/23 19:33	50
Carbon disulfide	22	U	100	22	ug/L			10/24/23 19:33	50
Carbon tetrachloride	15	U	50	15	ug/L			10/24/23 19:33	50
Chlorobenzene	7.5	U	50	7.5	ug/L			10/24/23 19:33	50
Chloroethane	230	U	250	230	ug/L			10/24/23 19:33	50
Chloroform	14	U	50	14	ug/L			10/24/23 19:33	50
Chloromethane	27	U	50	27	ug/L			10/24/23 19:33	50
cis-1,2-Dichloroethene	**5400**		50	13	ug/L			10/24/23 19:33	50
cis-1,3-Dichloropropene	13	U	50	13	ug/L			10/24/23 19:33	50
Cyclohexane	14	U	50	14	ug/L			10/24/23 19:33	50
Dibromochloromethane	20	U	50	20	ug/L			10/24/23 19:33	50
Dichlorodifluoromethane	18	U J3	50	18	ug/L			10/24/23 19:33	50
Ethylbenzene	10	U	50	10	ug/L			10/24/23 19:33	50
Isopropylbenzene	13	U	50	13	ug/L			10/24/23 19:33	50
m,p-Xylenes	25	U	50	25	ug/L			10/24/23 19:33	50
Methyl acetate	160	U	250	160	ug/L			10/24/23 19:33	50
Methyl tert-butyl ether	41	U	250	41	ug/L			10/24/23 19:33	50
Methylene Chloride	160	U	250	160	ug/L			10/24/23 19:33	50
o-Xylene	13	U	50	13	ug/L			10/24/23 19:33	50
Styrene	14	U	50	14	ug/L			10/24/23 19:33	50
Tetrachloroethene	18	U	50	18	ug/L			10/24/23 19:33	50
Toluene	13	U	50	13	ug/L			10/24/23 19:33	50
trans-1,2-Dichloroethene	**79**		50	17	ug/L			10/24/23 19:33	50
trans-1,3-Dichloropropene	12	U	50	12	ug/L			10/24/23 19:33	50
Trichloroethene	10	U	50	10	ug/L			10/24/23 19:33	50
Trichlorofluoromethane	17	U	50	17	ug/L			10/24/23 19:33	50
Vinyl chloride	**7200**		50	20	ug/L			10/24/23 19:33	50
Xylenes, Total	12	U	50	12	ug/L			10/24/23 19:33	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*60 - 124*		*10/24/23 19:33*	*50*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*10/24/23 19:33*	*50*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*10/24/23 19:33*	*50*
Toluene-d8 (Surr)	*103*		*70 - 130*		*10/24/23 19:33*	*50*

Client Sample ID: LC34-DPT0997-038.0-20231018

Lab Sample ID: 670-28871-13

Date Collected: 10/18/23 10:05

Matrix: Water

Date Received: 10/19/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/25/23 14:55	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/25/23 14:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/25/23 14:55	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28871-1

Client Sample ID: LC34-DPT0997-038.0-20231018
Date Collected: 10/18/23 10:05
Date Received: 10/19/23 08:00

Lab Sample ID: 670-28871-13
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/25/23 14:55	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/25/23 14:55	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/25/23 14:55	1
1,2,4-Trichlorobenzene	0.53	U J3	5.0	0.53	ug/L			10/25/23 14:55	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/25/23 14:55	1
1,2-Dibromoethane (EDB)	0.33	U	2.0	0.33	ug/L			10/25/23 14:55	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/25/23 14:55	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/25/23 14:55	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/25/23 14:55	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/25/23 14:55	1
1,4-Dichlorobenzene	0.31	U	2.0	0.31	ug/L			10/25/23 14:55	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			10/25/23 14:55	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/25/23 14:55	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/25/23 14:55	1
Acetone	3.7	U	10	3.7	ug/L			10/25/23 14:55	1
Benzene	0.27	U	1.0	0.27	ug/L			10/25/23 14:55	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/25/23 14:55	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/25/23 14:55	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/25/23 14:55	1
Carbon disulfide	**1.0**	**I**	2.0	0.43	ug/L			10/25/23 14:55	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/25/23 14:55	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/25/23 14:55	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/25/23 14:55	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/25/23 14:55	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/25/23 14:55	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/25/23 14:55	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/25/23 14:55	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/25/23 14:55	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/25/23 14:55	1
Dichlorodifluoromethane	0.36	U J3	1.0	0.36	ug/L			10/25/23 14:55	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/25/23 14:55	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/25/23 14:55	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/25/23 14:55	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/25/23 14:55	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/25/23 14:55	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/25/23 14:55	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/25/23 14:55	1
Styrene	0.27	U	1.0	0.27	ug/L			10/25/23 14:55	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/25/23 14:55	1
Toluene	0.25	U	1.0	0.25	ug/L			10/25/23 14:55	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/25/23 14:55	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/25/23 14:55	1
Trichloroethene	**1.2**		1.0	0.20	ug/L			10/25/23 14:55	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/25/23 14:55	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/25/23 14:55	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/25/23 14:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*60 - 124*		*10/25/23 14:55*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/25/23 14:55*	*1*

Client Sample ID: LC34-DPT0997-038.0-20231018

Lab Sample ID: 670-28871-13
Matrix: Water
Date Collected: 10/18/23 10:05
Date Received: 10/19/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*10/25/23 14:55*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/25/23 14:55*	*1*

Client Sample ID: LC34-DPT0997-032.0-20231018

Lab Sample ID: 670-28871-14
Matrix: Water
Date Collected: 10/18/23 10:20
Date Received: 10/19/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.3	U	25	5.3	ug/L			10/24/23 19:12	25
1,1,2,2-Tetrachloroethane	10	U	25	10	ug/L			10/24/23 19:12	25
1,1,2-Trichloro-1,2,2-trifluoroethane	5.8	U	25	5.8	ug/L			10/24/23 19:12	25
1,1,2-Trichloroethane	8.0	U	25	8.0	ug/L			10/24/23 19:12	25
1,1-Dichloroethane	8.3	U	25	8.3	ug/L			10/24/23 19:12	25
1,1-Dichloroethene	8.3	U	25	8.3	ug/L			10/24/23 19:12	25
1,2,4-Trichlorobenzene	13	U J3	130	13	ug/L			10/24/23 19:12	25
1,2-Dibromo-3-Chloropropane	45	U	130	45	ug/L			10/24/23 19:12	25
1,2-Dibromoethane (EDB)	8.3	U	50	8.3	ug/L			10/24/23 19:12	25
1,2-Dichlorobenzene	7.8	U	25	7.8	ug/L			10/24/23 19:12	25
1,2-Dichloroethane	6.3	U	25	6.3	ug/L			10/24/23 19:12	25
1,2-Dichloropropane	5.5	U	25	5.5	ug/L			10/24/23 19:12	25
1,3-Dichlorobenzene	7.8	U	25	7.8	ug/L			10/24/23 19:12	25
1,4-Dichlorobenzene	7.8	U	50	7.8	ug/L			10/24/23 19:12	25
2-Butanone (MEK)	160	U J3	250	160	ug/L			10/24/23 19:12	25
2-Hexanone	80	U	250	80	ug/L			10/24/23 19:12	25
4-Methyl-2-pentanone	68	U	250	68	ug/L			10/24/23 19:12	25
Acetone	93	U	250	93	ug/L			10/24/23 19:12	25
Benzene	6.8	U	25	6.8	ug/L			10/24/23 19:12	25
Bromodichloromethane	6.3	U	25	6.3	ug/L			10/24/23 19:12	25
Bromoform	15	U	25	15	ug/L			10/24/23 19:12	25
Bromomethane	93	U	130	93	ug/L			10/24/23 19:12	25
Carbon disulfide	11	U	50	11	ug/L			10/24/23 19:12	25
Carbon tetrachloride	7.5	U	25	7.5	ug/L			10/24/23 19:12	25
Chlorobenzene	3.8	U	25	3.8	ug/L			10/24/23 19:12	25
Chloroethane	120	U	130	120	ug/L			10/24/23 19:12	25
Chloroform	6.8	U	25	6.8	ug/L			10/24/23 19:12	25
Chloromethane	14	U	25	14	ug/L			10/24/23 19:12	25
cis-1,2-Dichloroethene	**1700**		25	6.3	ug/L			10/24/23 19:12	25
cis-1,3-Dichloropropene	6.5	U	25	6.5	ug/L			10/24/23 19:12	25
Cyclohexane	7.0	U	25	7.0	ug/L			10/24/23 19:12	25
Dibromochloromethane	9.8	U	25	9.8	ug/L			10/24/23 19:12	25
Dichlorodifluoromethane	9.0	U J3	25	9.0	ug/L			10/24/23 19:12	25
Ethylbenzene	5.0	U	25	5.0	ug/L			10/24/23 19:12	25
Isopropylbenzene	6.5	U	25	6.5	ug/L			10/24/23 19:12	25
m,p-Xylenes	12	U	25	12	ug/L			10/24/23 19:12	25
Methyl acetate	80	U	130	80	ug/L			10/24/23 19:12	25
Methyl tert-butyl ether	20	U	130	20	ug/L			10/24/23 19:12	25
Methylene Chloride	80	U	130	80	ug/L			10/24/23 19:12	25
o-Xylene	6.5	U	25	6.5	ug/L			10/24/23 19:12	25

Client Sample ID: LC34-DPT0997-032.0-20231018

Lab Sample ID: 670-28871-14

Date Collected: 10/18/23 10:20

Matrix: Water

Date Received: 10/19/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	6.8	U	25	6.8	ug/L			10/24/23 19:12	25
Tetrachloroethene	8.8	U	25	8.8	ug/L			10/24/23 19:12	25
Toluene	6.3	U	25	6.3	ug/L			10/24/23 19:12	25
trans-1,2-Dichloroethene	**8.6**	**I**	25	8.5	ug/L			10/24/23 19:12	25
trans-1,3-Dichloropropene	5.8	U	25	5.8	ug/L			10/24/23 19:12	25
Trichloroethene	5.0	U	25	5.0	ug/L			10/24/23 19:12	25
Trichlorofluoromethane	8.3	U	25	8.3	ug/L			10/24/23 19:12	25
Vinyl chloride	**590**		25	10	ug/L			10/24/23 19:12	25
Xylenes, Total	5.8	U	25	5.8	ug/L			10/24/23 19:12	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*60 - 124*		*10/24/23 19:12*	*25*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*10/24/23 19:12*	*25*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*10/24/23 19:12*	*25*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/24/23 19:12*	*25*

Client Sample ID: LC34-DPT0997-025.0-20231018

Lab Sample ID: 670-28871-15

Date Collected: 10/18/23 10:35

Matrix: Water

Date Received: 10/19/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.42	U	2.0	0.42	ug/L			10/24/23 20:08	2
1,1,2,2-Tetrachloroethane	0.80	U	2.0	0.80	ug/L			10/24/23 20:08	2
1,1,2-Trichloro-1,2,2-trifluoroethane	0.46	U	2.0	0.46	ug/L			10/24/23 20:08	2
1,1,2-Trichloroethane	0.64	U	2.0	0.64	ug/L			10/24/23 20:08	2
1,1-Dichloroethane	0.66	U	2.0	0.66	ug/L			10/24/23 20:08	2
1,1-Dichloroethene	0.66	U	2.0	0.66	ug/L			10/24/23 20:08	2
1,2,4-Trichlorobenzene	1.1	U	10	1.1	ug/L			10/24/23 20:08	2
1,2-Dibromo-3-Chloropropane	3.6	U	10	3.6	ug/L			10/24/23 20:08	2
1,2-Dibromoethane (EDB)	0.66	U	4.0	0.66	ug/L			10/24/23 20:08	2
1,2-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/24/23 20:08	2
1,2-Dichloroethane	0.50	U	2.0	0.50	ug/L			10/24/23 20:08	2
1,2-Dichloropropane	0.44	U	2.0	0.44	ug/L			10/24/23 20:08	2
1,3-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/24/23 20:08	2
1,4-Dichlorobenzene	0.62	U	4.0	0.62	ug/L			10/24/23 20:08	2
2-Butanone (MEK)	13	U	20	13	ug/L			10/24/23 20:08	2
2-Hexanone	6.4	U	20	6.4	ug/L			10/24/23 20:08	2
4-Methyl-2-pentanone	5.4	U J3	20	5.4	ug/L			10/24/23 20:08	2
Acetone	7.4	U J3	20	7.4	ug/L			10/24/23 20:08	2
Benzene	0.54	U	2.0	0.54	ug/L			10/24/23 20:08	2
Bromodichloromethane	0.50	U	2.0	0.50	ug/L			10/24/23 20:08	2
Bromoform	1.2	U	2.0	1.2	ug/L			10/24/23 20:08	2
Bromomethane	7.4	U	10	7.4	ug/L			10/24/23 20:08	2
Carbon disulfide	0.86	U	4.0	0.86	ug/L			10/24/23 20:08	2
Carbon tetrachloride	0.60	U	2.0	0.60	ug/L			10/24/23 20:08	2
Chlorobenzene	0.30	U	2.0	0.30	ug/L			10/24/23 20:08	2
Chloroethane	9.2	U	10	9.2	ug/L			10/24/23 20:08	2
Chloroform	0.54	U	2.0	0.54	ug/L			10/24/23 20:08	2
Chloromethane	1.1	U	2.0	1.1	ug/L			10/24/23 20:08	2

Client Sample ID: LC34-DPT0997-025.0-20231018

Lab Sample ID: 670-28871-15

Date Collected: 10/18/23 10:35

Matrix: Water

Date Received: 10/19/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**370**		2.0	0.50	ug/L			10/24/23 20:08	2
cis-1,3-Dichloropropene	0.52	U	2.0	0.52	ug/L			10/24/23 20:08	2
Cyclohexane	0.56	U	2.0	0.56	ug/L			10/24/23 20:08	2
Dibromochloromethane	0.78	U	2.0	0.78	ug/L			10/24/23 20:08	2
Dichlorodifluoromethane	0.72	U J3	2.0	0.72	ug/L			10/24/23 20:08	2
Ethylbenzene	0.40	U	2.0	0.40	ug/L			10/24/23 20:08	2
Isopropylbenzene	0.52	U	2.0	0.52	ug/L			10/24/23 20:08	2
m,p-Xylenes	0.98	U	2.0	0.98	ug/L			10/24/23 20:08	2
Methyl acetate	6.4	U	10	6.4	ug/L			10/24/23 20:08	2
Methyl tert-butyl ether	1.6	U	10	1.6	ug/L			10/24/23 20:08	2
Methylene Chloride	6.4	U	10	6.4	ug/L			10/24/23 20:08	2
o-Xylene	0.52	U	2.0	0.52	ug/L			10/24/23 20:08	2
Styrene	0.54	U	2.0	0.54	ug/L			10/24/23 20:08	2
Tetrachloroethene	0.70	U	2.0	0.70	ug/L			10/24/23 20:08	2
Toluene	0.50	U	2.0	0.50	ug/L			10/24/23 20:08	2
trans-1,2-Dichloroethene	**1.4**	**I**	2.0	0.68	ug/L			10/24/23 20:08	2
trans-1,3-Dichloropropene	0.46	U	2.0	0.46	ug/L			10/24/23 20:08	2
Trichloroethene	0.40	U	2.0	0.40	ug/L			10/24/23 20:08	2
Trichlorofluoromethane	0.66	U	2.0	0.66	ug/L			10/24/23 20:08	2
Vinyl chloride	**440**		10	4.0	ug/L			10/25/23 15:16	10
Xylenes, Total	0.46	U	2.0	0.46	ug/L			10/24/23 20:08	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*60 - 124*		*10/24/23 20:08*	*2*
1,2-Dichloroethane-d4 (Surr)	*87*		*60 - 124*		*10/25/23 15:16*	*10*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*		*10/24/23 20:08*	*2*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*		*10/25/23 15:16*	*10*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*10/24/23 20:08*	*2*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*10/25/23 15:16*	*10*
Toluene-d8 (Surr)	*111*		*70 - 130*		*10/24/23 20:08*	*2*
Toluene-d8 (Surr)	*103*		*70 - 130*		*10/25/23 15:16*	*10*

Client Sample ID: LC34-DPT0997-018.0-20231018

Lab Sample ID: 670-28871-16

Date Collected: 10/18/23 10:50

Matrix: Water

Date Received: 10/19/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/24/23 17:15	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/24/23 17:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/24/23 17:15	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/24/23 17:15	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/24/23 17:15	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/24/23 17:15	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/24/23 17:15	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/24/23 17:15	1
1,2-Dibromoethane (EDB)	0.33	U	2.0	0.33	ug/L			10/24/23 17:15	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/24/23 17:15	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/24/23 17:15	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/24/23 17:15	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28871-1

Client Sample ID: LC34-DPT0997-018.0-20231018
Date Collected: 10/18/23 10:50
Date Received: 10/19/23 08:00

Lab Sample ID: 670-28871-16
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/24/23 17:15	1
1,4-Dichlorobenzene	0.31	U	2.0	0.31	ug/L			10/24/23 17:15	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/24/23 17:15	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/24/23 17:15	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			10/24/23 17:15	1
Acetone	3.7	U J3	10	3.7	ug/L			10/24/23 17:15	1
Benzene	0.27	U	1.0	0.27	ug/L			10/24/23 17:15	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/24/23 17:15	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/24/23 17:15	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/24/23 17:15	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/24/23 17:15	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/24/23 17:15	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/24/23 17:15	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/24/23 17:15	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/24/23 17:15	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/24/23 17:15	1
cis-1,2-Dichloroethene	**31**		1.0	0.25	ug/L			10/24/23 17:15	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/24/23 17:15	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/24/23 17:15	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/24/23 17:15	1
Dichlorodifluoromethane	0.36	U J3	1.0	0.36	ug/L			10/24/23 17:15	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/24/23 17:15	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/24/23 17:15	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/24/23 17:15	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/24/23 17:15	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/24/23 17:15	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/24/23 17:15	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/24/23 17:15	1
Styrene	0.27	U	1.0	0.27	ug/L			10/24/23 17:15	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/24/23 17:15	1
Toluene	0.25	U	1.0	0.25	ug/L			10/24/23 17:15	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/24/23 17:15	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/24/23 17:15	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/24/23 17:15	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/24/23 17:15	1
Vinyl chloride	**11**		1.0	0.40	ug/L			10/24/23 17:15	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/24/23 17:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*60 - 124*		*10/24/23 17:15*	*1*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*		*10/24/23 17:15*	*1*
Dibromofluoromethane (Surr)	*110*		*70 - 130*		*10/24/23 17:15*	*1*
Toluene-d8 (Surr)	*110*		*70 - 130*		*10/24/23 17:15*	*1*

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28871-1

Client Sample ID: LC34-DPT0997-013.0-20231018
Date Collected: 10/18/23 11:05
Date Received: 10/19/23 08:00

Lab Sample ID: 670-28871-17
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/24/23 17:37	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/24/23 17:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/24/23 17:37	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/24/23 17:37	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/24/23 17:37	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/24/23 17:37	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/24/23 17:37	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/24/23 17:37	1
1,2-Dibromoethane (EDB)	0.33	U	2.0	0.33	ug/L			10/24/23 17:37	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/24/23 17:37	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/24/23 17:37	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/24/23 17:37	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/24/23 17:37	1
1,4-Dichlorobenzene	0.31	U	2.0	0.31	ug/L			10/24/23 17:37	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/24/23 17:37	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/24/23 17:37	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			10/24/23 17:37	1
Acetone	3.7	U J3	10	3.7	ug/L			10/24/23 17:37	1
Benzene	0.27	U	1.0	0.27	ug/L			10/24/23 17:37	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/24/23 17:37	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/24/23 17:37	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/24/23 17:37	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/24/23 17:37	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/24/23 17:37	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/24/23 17:37	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/24/23 17:37	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/24/23 17:37	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/24/23 17:37	1
cis-1,2-Dichloroethene	**20**		1.0	0.25	ug/L			10/24/23 17:37	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/24/23 17:37	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/24/23 17:37	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/24/23 17:37	1
Dichlorodifluoromethane	0.36	U J3	1.0	0.36	ug/L			10/24/23 17:37	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/24/23 17:37	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/24/23 17:37	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/24/23 17:37	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/24/23 17:37	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/24/23 17:37	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/24/23 17:37	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/24/23 17:37	1
Styrene	0.27	U	1.0	0.27	ug/L			10/24/23 17:37	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/24/23 17:37	1
Toluene	0.25	U	1.0	0.25	ug/L			10/24/23 17:37	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/24/23 17:37	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/24/23 17:37	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/24/23 17:37	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/24/23 17:37	1
Vinyl chloride	**7.1**		1.0	0.40	ug/L			10/24/23 17:37	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/24/23 17:37	1

Client Sample ID: LC34-DPT0997-013.0-20231018

Lab Sample ID: 670-28871-17

Date Collected: 10/18/23 11:05

Matrix: Water

Date Received: 10/19/23 08:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*60 - 124*		*10/24/23 17:37*	*1*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*		*10/24/23 17:37*	*1*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*10/24/23 17:37*	*1*
Toluene-d8 (Surr)	*111*		*70 - 130*		*10/24/23 17:37*	*1*

Client Sample ID: LC34-DPT0997-008.0-20231018

Lab Sample ID: 670-28871-18

Date Collected: 10/18/23 11:20

Matrix: Water

Date Received: 10/19/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/24/23 17:58	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/24/23 17:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/24/23 17:58	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/24/23 17:58	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/24/23 17:58	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/24/23 17:58	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/24/23 17:58	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/24/23 17:58	1
1,2-Dibromoethane (EDB)	0.33	U	2.0	0.33	ug/L			10/24/23 17:58	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/24/23 17:58	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/24/23 17:58	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/24/23 17:58	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/24/23 17:58	1
1,4-Dichlorobenzene	0.31	U	2.0	0.31	ug/L			10/24/23 17:58	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/24/23 17:58	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/24/23 17:58	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			10/24/23 17:58	1
Acetone	3.7	U J3	10	3.7	ug/L			10/24/23 17:58	1
Benzene	0.27	U	1.0	0.27	ug/L			10/24/23 17:58	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/24/23 17:58	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/24/23 17:58	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/24/23 17:58	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/24/23 17:58	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/24/23 17:58	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/24/23 17:58	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/24/23 17:58	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/24/23 17:58	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/24/23 17:58	1
cis-1,2-Dichloroethene	**13**		1.0	0.25	ug/L			10/24/23 17:58	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/24/23 17:58	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/24/23 17:58	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/24/23 17:58	1
Dichlorodifluoromethane	0.36	U J3	1.0	0.36	ug/L			10/24/23 17:58	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/24/23 17:58	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/24/23 17:58	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/24/23 17:58	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/24/23 17:58	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/24/23 17:58	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/24/23 17:58	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28871-1

Client Sample ID: LC34-DPT0997-008.0-20231018

Lab Sample ID: 670-28871-18

Date Collected: 10/18/23 11:20
Matrix: Water
Date Received: 10/19/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	0.26	U	1.0	0.26	ug/L			10/24/23 17:58	1
Styrene	0.27	U	1.0	0.27	ug/L			10/24/23 17:58	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/24/23 17:58	1
Toluene	0.25	U	1.0	0.25	ug/L			10/24/23 17:58	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/24/23 17:58	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/24/23 17:58	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/24/23 17:58	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/24/23 17:58	1
Vinyl chloride	**4.6**		1.0	0.40	ug/L			10/24/23 17:58	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/24/23 17:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*60 - 124*		*10/24/23 17:58*	*1*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*		*10/24/23 17:58*	*1*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*10/24/23 17:58*	*1*
Toluene-d8 (Surr)	*111*		*70 - 130*		*10/24/23 17:58*	*1*

Client Sample ID: LC34-DPT0998-038.0-20231018

Lab Sample ID: 670-28871-19

Date Collected: 10/18/23 12:10
Matrix: Water
Date Received: 10/19/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/24/23 18:20	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/24/23 18:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/24/23 18:20	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/24/23 18:20	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/24/23 18:20	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/24/23 18:20	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/24/23 18:20	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/24/23 18:20	1
1,2-Dibromoethane (EDB)	0.33	U	2.0	0.33	ug/L			10/24/23 18:20	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/24/23 18:20	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/24/23 18:20	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/24/23 18:20	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/24/23 18:20	1
1,4-Dichlorobenzene	0.31	U	2.0	0.31	ug/L			10/24/23 18:20	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/24/23 18:20	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/24/23 18:20	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			10/24/23 18:20	1
Acetone	3.7	U J3	10	3.7	ug/L			10/24/23 18:20	1
Benzene	0.27	U	1.0	0.27	ug/L			10/24/23 18:20	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/24/23 18:20	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/24/23 18:20	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/24/23 18:20	1
Carbon disulfide	**1.1**	**I**	2.0	0.43	ug/L			10/24/23 18:20	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/24/23 18:20	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/24/23 18:20	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/24/23 18:20	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/24/23 18:20	1

Client Sample ID: LC34-DPT0998-038.0-20231018

Lab Sample ID: 670-28871-19

Date Collected: 10/18/23 12:10

Matrix: Water

Date Received: 10/19/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	0.54	U	1.0	0.54	ug/L			10/24/23 18:20	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/24/23 18:20	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/24/23 18:20	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/24/23 18:20	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/24/23 18:20	1
Dichlorodifluoromethane	0.36	U J3	1.0	0.36	ug/L			10/24/23 18:20	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/24/23 18:20	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/24/23 18:20	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/24/23 18:20	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/24/23 18:20	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/24/23 18:20	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/24/23 18:20	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/24/23 18:20	1
Styrene	0.27	U	1.0	0.27	ug/L			10/24/23 18:20	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/24/23 18:20	1
Toluene	0.25	U	1.0	0.25	ug/L			10/24/23 18:20	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/24/23 18:20	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/24/23 18:20	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/24/23 18:20	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/24/23 18:20	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/24/23 18:20	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/24/23 18:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*60 - 124*		*10/24/23 18:20*	*1*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*		*10/24/23 18:20*	*1*
Dibromofluoromethane (Surr)	*110*		*70 - 130*		*10/24/23 18:20*	*1*
Toluene-d8 (Surr)	*111*		*70 - 130*		*10/24/23 18:20*	*1*

Client Sample ID: LC34-DPT0998-032.0-20231018

Lab Sample ID: 670-28871-20

Date Collected: 10/18/23 12:25

Matrix: Water

Date Received: 10/19/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/24/23 18:42	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/24/23 18:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/24/23 18:42	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/24/23 18:42	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/24/23 18:42	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/24/23 18:42	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/24/23 18:42	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/24/23 18:42	1
1,2-Dibromoethane (EDB)	0.33	U	2.0	0.33	ug/L			10/24/23 18:42	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/24/23 18:42	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/24/23 18:42	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/24/23 18:42	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/24/23 18:42	1
1,4-Dichlorobenzene	0.31	U	2.0	0.31	ug/L			10/24/23 18:42	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/24/23 18:42	1

Client Sample ID: LC34-DPT0998-032.0-20231018

Lab Sample ID: 670-28871-20

Date Collected: 10/18/23 12:25

Matrix: Water

Date Received: 10/19/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	3.2	U	10	3.2	ug/L			10/24/23 18:42	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			10/24/23 18:42	1
Acetone	3.7	U J3	10	3.7	ug/L			10/24/23 18:42	1
Benzene	0.27	U	1.0	0.27	ug/L			10/24/23 18:42	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/24/23 18:42	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/24/23 18:42	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/24/23 18:42	1
Carbon disulfide	**1.3**	**I**	2.0	0.43	ug/L			10/24/23 18:42	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/24/23 18:42	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/24/23 18:42	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/24/23 18:42	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/24/23 18:42	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/24/23 18:42	1
cis-1,2-Dichloroethene	**0.61**	**I**	1.0	0.25	ug/L			10/24/23 18:42	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/24/23 18:42	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/24/23 18:42	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/24/23 18:42	1
Dichlorodifluoromethane	0.36	U J3	1.0	0.36	ug/L			10/24/23 18:42	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/24/23 18:42	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/24/23 18:42	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/24/23 18:42	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/24/23 18:42	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/24/23 18:42	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/24/23 18:42	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/24/23 18:42	1
Styrene	0.27	U	1.0	0.27	ug/L			10/24/23 18:42	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/24/23 18:42	1
Toluene	0.25	U	1.0	0.25	ug/L			10/24/23 18:42	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/24/23 18:42	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/24/23 18:42	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/24/23 18:42	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/24/23 18:42	1
Vinyl chloride	**0.53**	**I**	1.0	0.40	ug/L			10/24/23 18:42	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/24/23 18:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*60 - 124*		*10/24/23 18:42*	*1*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*		*10/24/23 18:42*	*1*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*10/24/23 18:42*	*1*
Toluene-d8 (Surr)	*112*		*70 - 130*		*10/24/23 18:42*	*1*

Client Sample ID: LC34-DPT0998-025.0-20231018

Lab Sample ID: 670-28871-21

Date Collected: 10/18/23 12:40

Matrix: Water

Date Received: 10/19/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	5.0	1.1	ug/L			10/24/23 21:13	5
1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	ug/L			10/24/23 21:13	5
1,1,2-Trichloro-1,2,2-trifluoroethane	1.2	U	5.0	1.2	ug/L			10/24/23 21:13	5

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28871-1

Client Sample ID: LC34-DPT0998-025.0-20231018
Date Collected: 10/18/23 12:40
Date Received: 10/19/23 08:00

Lab Sample ID: 670-28871-21
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	1.6	U	5.0	1.6	ug/L			10/24/23 21:13	5
1,1-Dichloroethane	1.7	U	5.0	1.7	ug/L			10/24/23 21:13	5
1,1-Dichloroethene	1.7	U	5.0	1.7	ug/L			10/24/23 21:13	5
1,2,4-Trichlorobenzene	2.7	U	25	2.7	ug/L			10/24/23 21:13	5
1,2-Dibromo-3-Chloropropane	9.0	U	25	9.0	ug/L			10/24/23 21:13	5
1,2-Dibromoethane (EDB)	1.7	U	10	1.7	ug/L			10/24/23 21:13	5
1,2-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/24/23 21:13	5
1,2-Dichloroethane	1.3	U	5.0	1.3	ug/L			10/24/23 21:13	5
1,2-Dichloropropane	1.1	U	5.0	1.1	ug/L			10/24/23 21:13	5
1,3-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/24/23 21:13	5
1,4-Dichlorobenzene	1.6	U	10	1.6	ug/L			10/24/23 21:13	5
2-Butanone (MEK)	32	U	50	32	ug/L			10/24/23 21:13	5
2-Hexanone	16	U	50	16	ug/L			10/24/23 21:13	5
4-Methyl-2-pentanone	14	U J3	50	14	ug/L			10/24/23 21:13	5
Acetone	19	U J3	50	19	ug/L			10/24/23 21:13	5
Benzene	1.4	U	5.0	1.4	ug/L			10/24/23 21:13	5
Bromodichloromethane	1.3	U	5.0	1.3	ug/L			10/24/23 21:13	5
Bromoform	3.0	U	5.0	3.0	ug/L			10/24/23 21:13	5
Bromomethane	19	U	25	19	ug/L			10/24/23 21:13	5
Carbon disulfide	2.2	U	10	2.2	ug/L			10/24/23 21:13	5
Carbon tetrachloride	1.5	U	5.0	1.5	ug/L			10/24/23 21:13	5
Chlorobenzene	0.75	U	5.0	0.75	ug/L			10/24/23 21:13	5
Chloroethane	23	U	25	23	ug/L			10/24/23 21:13	5
Chloroform	1.4	U	5.0	1.4	ug/L			10/24/23 21:13	5
Chloromethane	2.7	U	5.0	2.7	ug/L			10/24/23 21:13	5
cis-1,2-Dichloroethene	**700**		25	6.3	ug/L			10/25/23 15:37	25
cis-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			10/24/23 21:13	5
Cyclohexane	1.4	U	5.0	1.4	ug/L			10/24/23 21:13	5
Dibromochloromethane	2.0	U	5.0	2.0	ug/L			10/24/23 21:13	5
Dichlorodifluoromethane	1.8	U J3	5.0	1.8	ug/L			10/24/23 21:13	5
Ethylbenzene	1.0	U	5.0	1.0	ug/L			10/24/23 21:13	5
Isopropylbenzene	1.3	U	5.0	1.3	ug/L			10/24/23 21:13	5
m,p-Xylenes	2.5	U	5.0	2.5	ug/L			10/24/23 21:13	5
Methyl acetate	16	U	25	16	ug/L			10/24/23 21:13	5
Methyl tert-butyl ether	4.1	U	25	4.1	ug/L			10/24/23 21:13	5
Methylene Chloride	16	U	25	16	ug/L			10/24/23 21:13	5
o-Xylene	1.3	U	5.0	1.3	ug/L			10/24/23 21:13	5
Styrene	1.4	U	5.0	1.4	ug/L			10/24/23 21:13	5
Tetrachloroethene	1.8	U	5.0	1.8	ug/L			10/24/23 21:13	5
Toluene	1.3	U	5.0	1.3	ug/L			10/24/23 21:13	5
trans-1,2-Dichloroethene	**1.8**	**I**	5.0	1.7	ug/L			10/24/23 21:13	5
trans-1,3-Dichloropropene	1.2	U	5.0	1.2	ug/L			10/24/23 21:13	5
Trichloroethene	1.0	U	5.0	1.0	ug/L			10/24/23 21:13	5
Trichlorofluoromethane	1.7	U	5.0	1.7	ug/L			10/24/23 21:13	5
Vinyl chloride	**1100**		25	10	ug/L			10/25/23 15:37	25
Xylenes, Total	1.2	U	5.0	1.2	ug/L			10/24/23 21:13	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*60 - 124*		*10/24/23 21:13*	*5*
1,2-Dichloroethane-d4 (Surr)	*88*		*60 - 124*		*10/25/23 15:37*	*25*

Client Sample ID: LC34-DPT0998-025.0-20231018

Lab Sample ID: 670-28871-21

Date Collected: 10/18/23 12:40

Matrix: Water

Date Received: 10/19/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*		*10/24/23 21:13*	*5*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*10/25/23 15:37*	*25*
Dibromofluoromethane (Surr)	*110*		*70 - 130*		*10/24/23 21:13*	*5*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*10/25/23 15:37*	*25*
Toluene-d8 (Surr)	*111*		*70 - 130*		*10/24/23 21:13*	*5*
Toluene-d8 (Surr)	*102*		*70 - 130*		*10/25/23 15:37*	*25*

Client Sample ID: LC34-DPT0998-018.0-20231018

Lab Sample ID: 670-28871-22

Date Collected: 10/18/23 12:55

Matrix: Water

Date Received: 10/19/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/24/23 19:03	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/24/23 19:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/24/23 19:03	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/24/23 19:03	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/24/23 19:03	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/24/23 19:03	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/24/23 19:03	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/24/23 19:03	1
1,2-Dibromoethane (EDB)	0.33	U	2.0	0.33	ug/L			10/24/23 19:03	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/24/23 19:03	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/24/23 19:03	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/24/23 19:03	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/24/23 19:03	1
1,4-Dichlorobenzene	0.31	U	2.0	0.31	ug/L			10/24/23 19:03	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/24/23 19:03	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/24/23 19:03	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			10/24/23 19:03	1
Acetone	3.7	U J3	10	3.7	ug/L			10/24/23 19:03	1
Benzene	0.27	U	1.0	0.27	ug/L			10/24/23 19:03	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/24/23 19:03	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/24/23 19:03	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/24/23 19:03	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/24/23 19:03	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/24/23 19:03	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/24/23 19:03	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/24/23 19:03	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/24/23 19:03	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/24/23 19:03	1
cis-1,2-Dichloroethene	**26**		1.0	0.25	ug/L			10/24/23 19:03	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/24/23 19:03	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/24/23 19:03	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/24/23 19:03	1
Dichlorodifluoromethane	0.36	U J3	1.0	0.36	ug/L			10/24/23 19:03	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/24/23 19:03	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/24/23 19:03	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/24/23 19:03	1

Client Sample ID: LC34-DPT0998-018.0-20231018

Lab Sample ID: 670-28871-22

Date Collected: 10/18/23 12:55

Matrix: Water

Date Received: 10/19/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/24/23 19:03	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/24/23 19:03	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/24/23 19:03	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/24/23 19:03	1
Styrene	0.27	U	1.0	0.27	ug/L			10/24/23 19:03	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/24/23 19:03	1
Toluene	0.25	U	1.0	0.25	ug/L			10/24/23 19:03	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/24/23 19:03	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/24/23 19:03	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/24/23 19:03	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/24/23 19:03	1
Vinyl chloride	**38**		1.0	0.40	ug/L			10/24/23 19:03	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/24/23 19:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*60 - 124*		*10/24/23 19:03*	*1*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*		*10/24/23 19:03*	*1*
Dibromofluoromethane (Surr)	*110*		*70 - 130*		*10/24/23 19:03*	*1*
Toluene-d8 (Surr)	*111*		*70 - 130*		*10/24/23 19:03*	*1*

Client Sample ID: LC34-DPT0998-013.0-20231018

Lab Sample ID: 670-28871-23

Date Collected: 10/18/23 13:10

Matrix: Water

Date Received: 10/19/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/24/23 19:25	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/24/23 19:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/24/23 19:25	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/24/23 19:25	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/24/23 19:25	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/24/23 19:25	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/24/23 19:25	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/24/23 19:25	1
1,2-Dibromoethane (EDB)	0.33	U	2.0	0.33	ug/L			10/24/23 19:25	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/24/23 19:25	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/24/23 19:25	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/24/23 19:25	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/24/23 19:25	1
1,4-Dichlorobenzene	0.31	U	2.0	0.31	ug/L			10/24/23 19:25	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/24/23 19:25	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/24/23 19:25	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			10/24/23 19:25	1
Acetone	3.7	U J3	10	3.7	ug/L			10/24/23 19:25	1
Benzene	0.27	U	1.0	0.27	ug/L			10/24/23 19:25	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/24/23 19:25	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/24/23 19:25	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/24/23 19:25	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/24/23 19:25	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/24/23 19:25	1

Client Sample ID: LC34-DPT0998-013.0-20231018

Lab Sample ID: 670-28871-23

Date Collected: 10/18/23 13:10

Matrix: Water

Date Received: 10/19/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/24/23 19:25	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/24/23 19:25	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/24/23 19:25	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/24/23 19:25	1
cis-1,2-Dichloroethene	**6.3**		1.0	0.25	ug/L			10/24/23 19:25	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/24/23 19:25	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/24/23 19:25	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/24/23 19:25	1
Dichlorodifluoromethane	0.36	U J3	1.0	0.36	ug/L			10/24/23 19:25	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/24/23 19:25	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/24/23 19:25	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/24/23 19:25	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/24/23 19:25	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/24/23 19:25	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/24/23 19:25	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/24/23 19:25	1
Styrene	0.27	U	1.0	0.27	ug/L			10/24/23 19:25	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/24/23 19:25	1
Toluene	0.25	U	1.0	0.25	ug/L			10/24/23 19:25	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/24/23 19:25	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/24/23 19:25	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/24/23 19:25	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/24/23 19:25	1
Vinyl chloride	**7.2**		1.0	0.40	ug/L			10/24/23 19:25	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/24/23 19:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*60 - 124*		*10/24/23 19:25*	*1*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*		*10/24/23 19:25*	*1*
Dibromofluoromethane (Surr)	*108*		*70 - 130*		*10/24/23 19:25*	*1*
Toluene-d8 (Surr)	*112*		*70 - 130*		*10/24/23 19:25*	*1*

Client Sample ID: LC34-DPT0998-008.0-20231018

Lab Sample ID: 670-28871-24

Date Collected: 10/18/23 13:25

Matrix: Water

Date Received: 10/19/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/24/23 19:46	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/24/23 19:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/24/23 19:46	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/24/23 19:46	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/24/23 19:46	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/24/23 19:46	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/24/23 19:46	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/24/23 19:46	1
1,2-Dibromoethane (EDB)	0.33	U	2.0	0.33	ug/L			10/24/23 19:46	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/24/23 19:46	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/24/23 19:46	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/24/23 19:46	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28871-1

Client Sample ID: LC34-DPT0998-008.0-20231018
Date Collected: 10/18/23 13:25
Date Received: 10/19/23 08:00

Lab Sample ID: 670-28871-24
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/24/23 19:46	1
1,4-Dichlorobenzene	0.31	U	2.0	0.31	ug/L			10/24/23 19:46	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/24/23 19:46	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/24/23 19:46	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			10/24/23 19:46	1
Acetone	3.7	U J3	10	3.7	ug/L			10/24/23 19:46	1
Benzene	0.27	U	1.0	0.27	ug/L			10/24/23 19:46	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/24/23 19:46	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/24/23 19:46	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/24/23 19:46	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/24/23 19:46	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/24/23 19:46	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/24/23 19:46	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/24/23 19:46	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/24/23 19:46	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/24/23 19:46	1
cis-1,2-Dichloroethene	**2.2**		1.0	0.25	ug/L			10/24/23 19:46	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/24/23 19:46	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/24/23 19:46	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/24/23 19:46	1
Dichlorodifluoromethane	0.36	U J3	1.0	0.36	ug/L			10/24/23 19:46	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/24/23 19:46	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/24/23 19:46	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/24/23 19:46	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/24/23 19:46	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/24/23 19:46	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/24/23 19:46	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/24/23 19:46	1
Styrene	0.27	U	1.0	0.27	ug/L			10/24/23 19:46	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/24/23 19:46	1
Toluene	0.25	U	1.0	0.25	ug/L			10/24/23 19:46	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/24/23 19:46	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/24/23 19:46	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/24/23 19:46	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/24/23 19:46	1
Vinyl chloride	**2.8**		1.0	0.40	ug/L			10/24/23 19:46	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/24/23 19:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*60 - 124*		*10/24/23 19:46*	*1*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*		*10/24/23 19:46*	*1*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*10/24/23 19:46*	*1*
Toluene-d8 (Surr)	*111*		*70 - 130*		*10/24/23 19:46*	*1*

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28871-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(60-124)	(70-130)	(70-130)	(70-130)
670-28871-1	LC34-DPT0995-008.0-20231017	106	85	107	110
670-28871-1	LC34-DPT0995-008.0-20231017	91	101	104	101
670-28871-2	LC34-DPT0995-013.0-20231017	108	86	109	112
670-28871-3	LC34-DPT0995-018.0-20231017	92	99	105	102
670-28871-4	LC34-DPT0995-025.0-20231017	106	85	107	111
670-28871-5	LC34-DPT0995-034.0-20231017	108	87	107	112
670-28871-6	LC34-DPT0995-038.0-20231017	107	87	110	112
670-28871-6 - DL	LC34-DPT0995-038.0-20231017	91	95	104	101
670-28871-7	LC34-DPT0996-008.0-20231017	106	86	107	109
670-28871-8	LC34-DPT0996-013.0-20231017	108	87	110	112
670-28871-9	LC34-DPT0996-018.0-20231017	108	86	109	111
670-28871-10	LC34-DPT0996-025.0-20231018	107	86	108	112
670-28871-11	LC34-DPT0996-034.0-20231018	110	85	110	112
670-28871-12	LC34-DPT0996-038.0-20231018	91	103	102	103
670-28871-13	LC34-DPT0997-038.0-20231018	90	101	104	101
670-28871-14	LC34-DPT0997-032.0-20231018	89	99	102	101
670-28871-15	LC34-DPT0997-025.0-20231018	107	85	109	111
670-28871-15	LC34-DPT0997-025.0-20231018	87	106	102	103
670-28871-16	LC34-DPT0997-018.0-20231018	107	86	110	110
670-28871-17	LC34-DPT0997-013.0-20231018	107	87	109	111
670-28871-18	LC34-DPT0997-008.0-20231018	106	86	109	111
670-28871-19	LC34-DPT0998-038.0-20231018	107	86	110	111
670-28871-20	LC34-DPT0998-032.0-20231018	108	86	109	112
670-28871-21	LC34-DPT0998-025.0-20231018	106	86	110	111
670-28871-21	LC34-DPT0998-025.0-20231018	88	102	102	102
670-28871-22	LC34-DPT0998-018.0-20231018	108	86	110	111
670-28871-23	LC34-DPT0998-013.0-20231018	106	86	108	112
670-28871-24	LC34-DPT0998-008.0-20231018	106	86	109	111
LCS 680-804255/5	Lab Control Sample	97	94	98	100

Surrogate Summary

Client: Tetra Tech, Inc.
Job ID: 670-28871-1
Project/Site: NASA KSC LC34 DPT

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Matrix: Water
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(60-124)	(70-130)	(70-130)	(70-130)
LCS 680-804257/4	Lab Control Sample	91	98	97	101
LCS 680-804471/4	Lab Control Sample	98	90	106	108
LCSD 680-804255/9	Lab Control Sample Dup	107	94	101	99
LCSD 680-804257/5	Lab Control Sample Dup	95	98	100	100
LCSD 680-804471/5	Lab Control Sample Dup	100	92	107	109
MB 680-804255/8	Method Blank	106	86	107	110
MB 680-804257/9	Method Blank	86	105	99	100
MB 680-804471/9	Method Blank	84	109	98	101

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 680-804255/8
Matrix: Water
Analysis Batch: 804255

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/24/23 12:11	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/24/23 12:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/24/23 12:11	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/24/23 12:11	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/24/23 12:11	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/24/23 12:11	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/24/23 12:11	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/24/23 12:11	1
1,2-Dibromoethane (EDB)	0.33	U	2.0	0.33	ug/L			10/24/23 12:11	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/24/23 12:11	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/24/23 12:11	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/24/23 12:11	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/24/23 12:11	1
1,4-Dichlorobenzene	0.31	U	2.0	0.31	ug/L			10/24/23 12:11	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/24/23 12:11	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/24/23 12:11	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/24/23 12:11	1
Acetone	3.7	U	10	3.7	ug/L			10/24/23 12:11	1
Benzene	0.27	U	1.0	0.27	ug/L			10/24/23 12:11	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/24/23 12:11	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/24/23 12:11	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/24/23 12:11	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/24/23 12:11	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/24/23 12:11	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/24/23 12:11	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/24/23 12:11	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/24/23 12:11	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/24/23 12:11	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/24/23 12:11	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/24/23 12:11	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/24/23 12:11	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/24/23 12:11	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/24/23 12:11	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/24/23 12:11	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/24/23 12:11	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/24/23 12:11	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/24/23 12:11	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/24/23 12:11	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/24/23 12:11	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/24/23 12:11	1
Styrene	0.27	U	1.0	0.27	ug/L			10/24/23 12:11	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/24/23 12:11	1
Toluene	0.25	U	1.0	0.25	ug/L			10/24/23 12:11	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/24/23 12:11	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/24/23 12:11	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/24/23 12:11	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/24/23 12:11	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/24/23 12:11	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-804255/8
Matrix: Water
Analysis Batch: 804255

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/24/23 12:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*60 - 124*		*10/24/23 12:11*	*1*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*		*10/24/23 12:11*	*1*
Dibromofluoromethane (Surr)	*107*		*70 - 130*		*10/24/23 12:11*	*1*
Toluene-d8 (Surr)	*110*		*70 - 130*		*10/24/23 12:11*	*1*

Lab Sample ID: LCS 680-804255/5
Matrix: Water
Analysis Batch: 804255

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	48.0		ug/L		96	70 - 130
1,1,2,2-Tetrachloroethane	50.0	49.8		ug/L		100	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	48.3		ug/L		97	63 - 141
1,1,2-Trichloroethane	50.0	49.2		ug/L		98	70 - 130
1,1-Dichloroethane	50.0	49.5		ug/L		99	70 - 130
1,1-Dichloroethene	50.0	46.6		ug/L		93	70 - 130
1,2,4-Trichlorobenzene	50.0	50.2		ug/L		100	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	46.6		ug/L		93	70 - 130
1,2-Dibromoethane (EDB)	50.0	51.2		ug/L		102	70 - 130
1,2-Dichlorobenzene	50.0	49.8		ug/L		100	70 - 130
1,2-Dichloroethane	50.0	52.2		ug/L		104	70 - 130
1,2-Dichloropropane	50.0	49.6		ug/L		99	70 - 130
1,3-Dichlorobenzene	50.0	50.0		ug/L		100	70 - 130
1,4-Dichlorobenzene	50.0	49.6		ug/L		99	70 - 130
2-Butanone (MEK)	250	231		ug/L		92	69 - 120
2-Hexanone	250	265		ug/L		106	70 - 130
4-Methyl-2-pentanone	250	266		ug/L		107	68 - 120
Acetone	250	256		ug/L		102	67 - 120
Benzene	50.0	50.4		ug/L		101	70 - 130
Bromodichloromethane	50.0	48.7		ug/L		97	70 - 130
Bromoform	50.0	47.1		ug/L		94	69 - 129
Bromomethane	50.0	33.2		ug/L		66	28 - 192
Carbon disulfide	50.0	43.0		ug/L		86	70 - 130
Carbon tetrachloride	50.0	49.0		ug/L		98	70 - 130
Chlorobenzene	50.0	49.8		ug/L		100	70 - 130
Chloroethane	50.0	74.3		ug/L		149	31 - 213
Chloroform	50.0	48.0		ug/L		96	70 - 130
Chloromethane	50.0	35.5		ug/L		71	59 - 127
cis-1,2-Dichloroethene	50.0	48.0		ug/L		96	70 - 130
cis-1,3-Dichloropropene	50.0	50.1		ug/L		100	70 - 130
Cyclohexane	50.0	48.6		ug/L		97	23 - 175
Dibromochloromethane	50.0	49.4		ug/L		99	70 - 130
Dichlorodifluoromethane	50.0	30.0	J3	ug/L		60	70 - 130
Ethylbenzene	50.0	49.6		ug/L		99	70 - 130
Isopropylbenzene	50.0	50.0		ug/L		100	70 - 130

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-804255/5
Matrix: Water
Analysis Batch: 804255

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
m,p-Xylenes	50.0	49.0		ug/L		98	70 - 130
Methyl acetate	100	97.4		ug/L		97	67 - 120
Methyl tert-butyl ether	50.0	50.0		ug/L		100	70 - 130
Methylene Chloride	50.0	48.4		ug/L		97	70 - 130
o-Xylene	50.0	49.4		ug/L		99	70 - 130
Styrene	50.0	48.7		ug/L		97	70 - 130
Tetrachloroethene	50.0	51.6		ug/L		103	70 - 130
Toluene	50.0	50.4		ug/L		101	70 - 130
trans-1,2-Dichloroethene	50.0	47.5		ug/L		95	70 - 130
trans-1,3-Dichloropropene	50.0	49.8		ug/L		100	70 - 130
Trichloroethene	50.0	50.5		ug/L		101	70 - 130
Trichlorofluoromethane	50.0	48.7		ug/L		97	63 - 142
Vinyl chloride	50.0	40.1		ug/L		80	66 - 129
Xylenes, Total	100	98.4		ug/L		98	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 124*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
Dibromofluoromethane (Surr)	*98*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 680-804255/9
Matrix: Water
Analysis Batch: 804255

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	50.0	46.1		ug/L		92	70 - 130	4	30
1,1,2,2-Tetrachloroethane	50.0	55.4		ug/L		111	70 - 130	11	30
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	45.2		ug/L		90	63 - 141	7	30
1,1,2-Trichloroethane	50.0	55.6		ug/L		111	70 - 130	12	30
1,1-Dichloroethane	50.0	48.9		ug/L		98	70 - 130	1	30
1,1-Dichloroethene	50.0	42.6		ug/L		85	70 - 130	9	20
1,2,4-Trichlorobenzene	50.0	47.4		ug/L		95	70 - 130	6	30
1,2-Dibromo-3-Chloropropane	50.0	53.3		ug/L		107	70 - 130	13	30
1,2-Dibromoethane (EDB)	50.0	55.5		ug/L		111	70 - 130	8	30
1,2-Dichlorobenzene	50.0	49.5		ug/L		99	70 - 130	1	30
1,2-Dichloroethane	50.0	56.1		ug/L		112	70 - 130	7	50
1,2-Dichloropropane	50.0	52.0		ug/L		104	70 - 130	5	20
1,3-Dichlorobenzene	50.0	48.4		ug/L		97	70 - 130	3	30
1,4-Dichlorobenzene	50.0	48.6		ug/L		97	70 - 130	2	30
2-Butanone (MEK)	250	278		ug/L		111	69 - 120	19	30
2-Hexanone	250	310		ug/L		124	70 - 130	16	20
4-Methyl-2-pentanone	250	311	J3	ug/L		124	68 - 120	15	30
Acetone	250	307	J3	ug/L		123	67 - 120	18	30
Benzene	50.0	49.4		ug/L		99	70 - 130	2	30
Bromodichloromethane	50.0	50.7		ug/L		101	70 - 130	4	30
Bromoform	50.0	50.2		ug/L		100	69 - 129	6	30
Bromomethane	50.0	28.1		ug/L		56	28 - 192	17	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-804255/9
Matrix: Water
Analysis Batch: 804255

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon disulfide			50.0	37.7		ug/L		75	70 - 130	13	30
Carbon tetrachloride			50.0	45.9		ug/L		92	70 - 130	7	30
Chlorobenzene			50.0	50.2		ug/L		100	70 - 130	1	30
Chloroethane			50.0	67.8		ug/L		136	31 - 213	9	30
Chloroform			50.0	48.3		ug/L		97	70 - 130	1	30
Chloromethane			50.0	32.5		ug/L		65	59 - 127	9	30
cis-1,2-Dichloroethene			50.0	49.5		ug/L		99	70 - 130	3	30
cis-1,3-Dichloropropene			50.0	51.7		ug/L		103	70 - 130	3	20
Cyclohexane			50.0	45.6		ug/L		91	23 - 175	6	30
Dibromochloromethane			50.0	52.6		ug/L		105	70 - 130	6	30
Dichlorodifluoromethane			50.0	27.0	J3	ug/L		54	70 - 130	10	40
Ethylbenzene			50.0	48.9		ug/L		98	70 - 130	1	20
Isopropylbenzene			50.0	49.0		ug/L		98	70 - 130	2	30
m,p-Xylenes			50.0	48.6		ug/L		97	70 - 130	1	30
Methyl acetate			100	118		ug/L		118	67 - 120	19	30
Methyl tert-butyl ether			50.0	56.5		ug/L		113	70 - 130	12	30
Methylene Chloride			50.0	50.2		ug/L		100	70 - 130	4	30
o-Xylene			50.0	48.8		ug/L		98	70 - 130	1	30
Styrene			50.0	48.6		ug/L		97	70 - 130	0	30
Tetrachloroethene			50.0	49.1		ug/L		98	70 - 130	5	30
Toluene			50.0	49.8		ug/L		100	70 - 130	1	30
trans-1,2-Dichloroethene			50.0	45.5		ug/L		91	70 - 130	4	30
trans-1,3-Dichloropropene			50.0	52.0		ug/L		104	70 - 130	4	30
Trichloroethene			50.0	48.0		ug/L		96	70 - 130	5	30
Trichlorofluoromethane			50.0	44.6		ug/L		89	63 - 142	9	30
Vinyl chloride			50.0	36.6		ug/L		73	66 - 129	9	30
Xylenes, Total			100	97.4		ug/L		97	70 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*107*		*60 - 124*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*99*		*70 - 130*

Lab Sample ID: MB 680-804257/9
Matrix: Water
Analysis Batch: 804257

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/24/23 12:16	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/24/23 12:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/24/23 12:16	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/24/23 12:16	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/24/23 12:16	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/24/23 12:16	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/24/23 12:16	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/24/23 12:16	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/24/23 12:16	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-804257/9
Matrix: Water
Analysis Batch: 804257

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/24/23 12:16	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/24/23 12:16	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/24/23 12:16	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/24/23 12:16	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/24/23 12:16	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/24/23 12:16	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/24/23 12:16	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/24/23 12:16	1
Acetone	3.7	U	10	3.7	ug/L			10/24/23 12:16	1
Benzene	0.27	U	1.0	0.27	ug/L			10/24/23 12:16	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/24/23 12:16	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/24/23 12:16	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/24/23 12:16	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/24/23 12:16	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/24/23 12:16	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/24/23 12:16	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/24/23 12:16	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/24/23 12:16	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/24/23 12:16	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/24/23 12:16	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/24/23 12:16	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/24/23 12:16	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/24/23 12:16	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/24/23 12:16	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/24/23 12:16	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/24/23 12:16	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/24/23 12:16	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/24/23 12:16	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/24/23 12:16	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/24/23 12:16	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/24/23 12:16	1
Styrene	0.27	U	1.0	0.27	ug/L			10/24/23 12:16	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/24/23 12:16	1
Toluene	0.25	U	1.0	0.25	ug/L			10/24/23 12:16	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/24/23 12:16	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/24/23 12:16	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/24/23 12:16	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/24/23 12:16	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/24/23 12:16	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/24/23 12:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*60 - 124*		*10/24/23 12:16*	*1*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*10/24/23 12:16*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*10/24/23 12:16*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/24/23 12:16*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-804257/4
Matrix: Water
Analysis Batch: 804257

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	51.9		ug/L		104	70 - 130
1,1,2,2-Tetrachloroethane	50.0	53.0		ug/L		106	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	52.7		ug/L		105	63 - 141
1,1,2-Trichloroethane	50.0	51.1		ug/L		102	70 - 130
1,1-Dichloroethane	50.0	54.7		ug/L		109	70 - 130
1,1-Dichloroethene	50.0	53.1		ug/L		106	70 - 130
1,2,4-Trichlorobenzene	50.0	64.2		ug/L		128	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	51.6		ug/L		103	70 - 130
1,2-Dibromoethane (EDB)	50.0	50.6		ug/L		101	70 - 130
1,2-Dichlorobenzene	50.0	53.7		ug/L		107	70 - 130
1,2-Dichloroethane	50.0	47.9		ug/L		96	70 - 130
1,2-Dichloropropane	50.0	53.7		ug/L		107	70 - 130
1,3-Dichlorobenzene	50.0	52.1		ug/L		104	70 - 130
1,4-Dichlorobenzene	50.0	50.7		ug/L		101	70 - 130
2-Butanone (MEK)	250	159	J3	ug/L		64	69 - 120
2-Hexanone	250	224		ug/L		89	70 - 130
4-Methyl-2-pentanone	250	246		ug/L		98	68 - 120
Acetone	250	194		ug/L		78	67 - 120
Benzene	50.0	53.1		ug/L		106	70 - 130
Bromodichloromethane	50.0	54.3		ug/L		109	70 - 130
Bromoform	50.0	43.5		ug/L		87	69 - 129
Bromomethane	50.0	63.3		ug/L		127	28 - 192
Carbon disulfide	50.0	53.0		ug/L		106	70 - 130
Carbon tetrachloride	50.0	50.7		ug/L		101	70 - 130
Chlorobenzene	50.0	50.8		ug/L		102	70 - 130
Chloroethane	50.0	53.3		ug/L		107	31 - 213
Chloroform	50.0	48.6		ug/L		97	70 - 130
Chloromethane	50.0	42.2		ug/L		84	59 - 127
cis-1,2-Dichloroethene	50.0	55.1		ug/L		110	70 - 130
cis-1,3-Dichloropropene	50.0	48.4		ug/L		97	70 - 130
Cyclohexane	50.0	53.9		ug/L		108	23 - 175
Dibromochloromethane	50.0	53.8		ug/L		108	70 - 130
Dichlorodifluoromethane	50.0	35.4		ug/L		71	70 - 130
Ethylbenzene	50.0	54.0		ug/L		108	70 - 130
Isopropylbenzene	50.0	47.7		ug/L		95	70 - 130
m,p-Xylenes	50.0	55.6		ug/L		111	70 - 130
Methyl acetate	100	89.4		ug/L		89	67 - 120
Methyl tert-butyl ether	50.0	45.5		ug/L		91	70 - 130
Methylene Chloride	50.0	54.4		ug/L		109	70 - 130
o-Xylene	50.0	47.1		ug/L		94	70 - 130
Styrene	50.0	46.7		ug/L		93	70 - 130
Tetrachloroethene	50.0	52.3		ug/L		105	70 - 130
Toluene	50.0	54.3		ug/L		109	70 - 130
trans-1,2-Dichloroethene	50.0	55.4		ug/L		111	70 - 130
trans-1,3-Dichloropropene	50.0	47.4		ug/L		95	70 - 130
Trichloroethene	50.0	48.6		ug/L		97	70 - 130
Trichlorofluoromethane	50.0	43.6		ug/L		87	63 - 142
Vinyl chloride	50.0	48.2		ug/L		96	66 - 129

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-804257/4
Matrix: Water
Analysis Batch: 804257

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Xylenes, Total			100	103		ug/L		103	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*91*		*60 - 124*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
Dibromofluoromethane (Surr)	*97*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 680-804257/5
Matrix: Water
Analysis Batch: 804257

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane			50.0	52.3		ug/L		105	70 - 130	1	30
1,1,2,2-Tetrachloroethane			50.0	55.8		ug/L		112	70 - 130	5	30
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	51.2		ug/L		102	63 - 141	3	30
1,1,2-Trichloroethane			50.0	52.6		ug/L		105	70 - 130	3	30
1,1-Dichloroethane			50.0	51.4		ug/L		103	70 - 130	6	30
1,1-Dichloroethene			50.0	51.7		ug/L		103	70 - 130	3	20
1,2,4-Trichlorobenzene			50.0	66.4	J3	ug/L		133	70 - 130	3	30
1,2-Dibromo-3-Chloropropane			50.0	54.9		ug/L		110	70 - 130	6	30
1,2-Dibromoethane (EDB)			50.0	51.0		ug/L		102	70 - 130	1	30
1,2-Dichlorobenzene			50.0	53.6		ug/L		107	70 - 130	0	30
1,2-Dichloroethane			50.0	51.1		ug/L		102	70 - 130	6	50
1,2-Dichloropropane			50.0	53.4		ug/L		107	70 - 130	1	20
1,3-Dichlorobenzene			50.0	51.4		ug/L		103	70 - 130	1	30
1,4-Dichlorobenzene			50.0	49.7		ug/L		99	70 - 130	2	30
2-Butanone (MEK)			250	167	J3	ug/L		67	69 - 120	4	30
2-Hexanone			250	215		ug/L		86	70 - 130	4	20
4-Methyl-2-pentanone			250	235		ug/L		94	68 - 120	4	30
Acetone			250	204		ug/L		82	67 - 120	5	30
Benzene			50.0	52.2		ug/L		104	70 - 130	2	30
Bromodichloromethane			50.0	54.0		ug/L		108	70 - 130	0	30
Bromoform			50.0	43.7		ug/L		87	69 - 129	0	30
Bromomethane			50.0	62.8		ug/L		126	28 - 192	1	30
Carbon disulfide			50.0	50.7		ug/L		101	70 - 130	4	30
Carbon tetrachloride			50.0	52.3		ug/L		105	70 - 130	3	30
Chlorobenzene			50.0	50.2		ug/L		100	70 - 130	1	30
Chloroethane			50.0	49.7		ug/L		99	31 - 213	7	30
Chloroform			50.0	48.8		ug/L		98	70 - 130	0	30
Chloromethane			50.0	41.4		ug/L		83	59 - 127	2	30
cis-1,2-Dichloroethene			50.0	53.2		ug/L		106	70 - 130	3	30
cis-1,3-Dichloropropene			50.0	49.4		ug/L		99	70 - 130	2	20
Cyclohexane			50.0	52.1		ug/L		104	23 - 175	3	30
Dibromochloromethane			50.0	52.4		ug/L		105	70 - 130	3	30
Dichlorodifluoromethane			50.0	34.1	J3	ug/L		68	70 - 130	4	40
Ethylbenzene			50.0	53.9		ug/L		108	70 - 130	0	20
Isopropylbenzene			50.0	47.1		ug/L		94	70 - 130	1	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-804257/5
Matrix: Water
Analysis Batch: 804257

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m,p-Xylenes			50.0	55.8		ug/L		112	70 - 130	0	30
Methyl acetate			100	90.7		ug/L		91	67 - 120	1	30
Methyl tert-butyl ether			50.0	45.1		ug/L		90	70 - 130	1	30
Methylene Chloride			50.0	53.7		ug/L		107	70 - 130	1	30
o-Xylene			50.0	47.2		ug/L		94	70 - 130	0	30
Styrene			50.0	47.3		ug/L		95	70 - 130	1	30
Tetrachloroethene			50.0	50.3		ug/L		101	70 - 130	4	30
Toluene			50.0	54.0		ug/L		108	70 - 130	1	30
trans-1,2-Dichloroethene			50.0	52.0		ug/L		104	70 - 130	6	30
trans-1,3-Dichloropropene			50.0	47.6		ug/L		95	70 - 130	0	30
Trichloroethene			50.0	49.2		ug/L		98	70 - 130	1	30
Trichlorofluoromethane			50.0	42.0		ug/L		84	63 - 142	4	30
Vinyl chloride			50.0	45.5		ug/L		91	66 - 129	6	30
Xylenes, Total			100	103		ug/L		103	70 - 130	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
Dibromofluoromethane (Surr)	*100*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

Lab Sample ID: MB 680-804471/9
Matrix: Water
Analysis Batch: 804471

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/25/23 12:52	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/25/23 12:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/25/23 12:52	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/25/23 12:52	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/25/23 12:52	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/25/23 12:52	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/25/23 12:52	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/25/23 12:52	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/25/23 12:52	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/25/23 12:52	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/25/23 12:52	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/25/23 12:52	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/25/23 12:52	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/25/23 12:52	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/25/23 12:52	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/25/23 12:52	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/25/23 12:52	1
Acetone	3.7	U	10	3.7	ug/L			10/25/23 12:52	1
Benzene	0.27	U	1.0	0.27	ug/L			10/25/23 12:52	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/25/23 12:52	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/25/23 12:52	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/25/23 12:52	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-804471/9
Matrix: Water
Analysis Batch: 804471

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/25/23 12:52	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/25/23 12:52	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/25/23 12:52	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/25/23 12:52	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/25/23 12:52	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/25/23 12:52	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/25/23 12:52	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/25/23 12:52	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/25/23 12:52	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/25/23 12:52	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/25/23 12:52	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/25/23 12:52	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/25/23 12:52	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/25/23 12:52	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/25/23 12:52	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/25/23 12:52	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/25/23 12:52	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/25/23 12:52	1
Styrene	0.27	U	1.0	0.27	ug/L			10/25/23 12:52	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/25/23 12:52	1
Toluene	0.25	U	1.0	0.25	ug/L			10/25/23 12:52	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/25/23 12:52	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/25/23 12:52	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/25/23 12:52	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/25/23 12:52	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/25/23 12:52	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/25/23 12:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*84*		*60 - 124*		*10/25/23 12:52*	*1*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*		*10/25/23 12:52*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*10/25/23 12:52*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/25/23 12:52*	*1*

Lab Sample ID: LCS 680-804471/4
Matrix: Water
Analysis Batch: 804471

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	54.3		ug/L		109	70 - 130
1,1,2,2-Tetrachloroethane	50.0	49.1		ug/L		98	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	57.5		ug/L		115	63 - 141
1,1,2-Trichloroethane	50.0	54.2		ug/L		108	70 - 130
1,1-Dichloroethane	50.0	55.3		ug/L		111	70 - 130
1,1-Dichloroethene	50.0	57.1		ug/L		114	70 - 130
1,2,4-Trichlorobenzene	50.0	64.0		ug/L		128	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	51.1		ug/L		102	70 - 130
1,2-Dibromoethane (EDB)	50.0	52.1		ug/L		104	70 - 130

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-804471/4
Matrix: Water
Analysis Batch: 804471

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichlorobenzene	50.0	48.9		ug/L		98	70 - 130
1,2-Dichloroethane	50.0	51.2		ug/L		102	70 - 130
1,2-Dichloropropane	50.0	54.6		ug/L		109	70 - 130
1,3-Dichlorobenzene	50.0	46.8		ug/L		94	70 - 130
1,4-Dichlorobenzene	50.0	46.1		ug/L		92	70 - 130
2-Butanone (MEK)	250	170	J3	ug/L		68	69 - 120
2-Hexanone	250	214		ug/L		86	70 - 130
4-Methyl-2-pentanone	250	238		ug/L		95	68 - 120
Acetone	250	198		ug/L		79	67 - 120
Benzene	50.0	55.2		ug/L		110	70 - 130
Bromodichloromethane	50.0	55.8		ug/L		112	70 - 130
Bromoform	50.0	42.2		ug/L		84	69 - 129
Bromomethane	50.0	79.4		ug/L		159	28 - 192
Carbon disulfide	50.0	56.6		ug/L		113	70 - 130
Carbon tetrachloride	50.0	54.2		ug/L		108	70 - 130
Chlorobenzene	50.0	47.5		ug/L		95	70 - 130
Chloroethane	50.0	105		ug/L		209	31 - 213
Chloroform	50.0	51.1		ug/L		102	70 - 130
Chloromethane	50.0	61.5		ug/L		123	59 - 127
cis-1,2-Dichloroethene	50.0	55.4		ug/L		111	70 - 130
cis-1,3-Dichloropropene	50.0	50.8		ug/L		102	70 - 130
Cyclohexane	50.0	53.9		ug/L		108	23 - 175
Dibromochloromethane	50.0	54.7		ug/L		109	70 - 130
Dichlorodifluoromethane	50.0	67.0	J3	ug/L		134	70 - 130
Ethylbenzene	50.0	50.7		ug/L		101	70 - 130
Isopropylbenzene	50.0	44.9		ug/L		90	70 - 130
m,p-Xylenes	50.0	50.7		ug/L		101	70 - 130
Methyl acetate	100	80.9		ug/L		81	67 - 120
Methyl tert-butyl ether	50.0	47.2		ug/L		94	70 - 130
Methylene Chloride	50.0	56.1		ug/L		112	70 - 130
o-Xylene	50.0	44.7		ug/L		89	70 - 130
Styrene	50.0	44.7		ug/L		89	70 - 130
Tetrachloroethene	50.0	53.2		ug/L		106	70 - 130
Toluene	50.0	56.6		ug/L		113	70 - 130
trans-1,2-Dichloroethene	50.0	56.1		ug/L		112	70 - 130
trans-1,3-Dichloropropene	50.0	48.9		ug/L		98	70 - 130
Trichloroethene	50.0	52.1		ug/L		104	70 - 130
Trichlorofluoromethane	50.0	51.2		ug/L		102	63 - 142
Vinyl chloride	50.0	62.8		ug/L		126	66 - 129
Xylenes, Total	100	95.4		ug/L		95	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 124*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*
Dibromofluoromethane (Surr)	*106*		*70 - 130*
Toluene-d8 (Surr)	*108*		*70 - 130*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-804471/5
Matrix: Water
Analysis Batch: 804471

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane			50.0	55.2		ug/L		110	70 - 130	2	30
1,1,2,2-Tetrachloroethane			50.0	53.2		ug/L		106	70 - 130	8	30
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	57.9		ug/L		116	63 - 141	1	30
1,1,2-Trichloroethane			50.0	56.0		ug/L		112	70 - 130	3	30
1,1-Dichloroethane			50.0	56.7		ug/L		113	70 - 130	3	30
1,1-Dichloroethene			50.0	57.4		ug/L		115	70 - 130	1	20
1,2,4-Trichlorobenzene			50.0	66.0	J3	ug/L		132	70 - 130	3	30
1,2-Dibromo-3-Chloropropane			50.0	54.9		ug/L		110	70 - 130	7	30
1,2-Dibromoethane (EDB)			50.0	53.8		ug/L		108	70 - 130	3	30
1,2-Dichlorobenzene			50.0	49.2		ug/L		98	70 - 130	1	30
1,2-Dichloroethane			50.0	52.6		ug/L		105	70 - 130	3	50
1,2-Dichloropropane			50.0	56.3		ug/L		113	70 - 130	3	20
1,3-Dichlorobenzene			50.0	47.0		ug/L		94	70 - 130	0	30
1,4-Dichlorobenzene			50.0	45.9		ug/L		92	70 - 130	0	30
2-Butanone (MEK)			250	184		ug/L		74	69 - 120	8	30
2-Hexanone			250	227		ug/L		91	70 - 130	6	20
4-Methyl-2-pentanone			250	249		ug/L		100	68 - 120	5	30
Acetone			250	217		ug/L		87	67 - 120	9	30
Benzene			50.0	55.5		ug/L		111	70 - 130	0	30
Bromodichloromethane			50.0	57.2		ug/L		114	70 - 130	3	30
Bromoform			50.0	42.9		ug/L		86	69 - 129	2	30
Bromomethane			50.0	80.8		ug/L		162	28 - 192	2	30
Carbon disulfide			50.0	55.3		ug/L		111	70 - 130	2	30
Carbon tetrachloride			50.0	54.8		ug/L		110	70 - 130	1	30
Chlorobenzene			50.0	47.0		ug/L		94	70 - 130	1	30
Chloroethane			50.0	103		ug/L		207	31 - 213	1	30
Chloroform			50.0	51.9		ug/L		104	70 - 130	1	30
Chloromethane			50.0	62.1		ug/L		124	59 - 127	1	30
cis-1,2-Dichloroethene			50.0	56.2		ug/L		112	70 - 130	2	30
cis-1,3-Dichloropropene			50.0	51.8		ug/L		104	70 - 130	2	20
Cyclohexane			50.0	54.9		ug/L		110	23 - 175	2	30
Dibromochloromethane			50.0	55.8		ug/L		112	70 - 130	2	30
Dichlorodifluoromethane			50.0	66.6	J3	ug/L		133	70 - 130	1	40
Ethylbenzene			50.0	49.9		ug/L		100	70 - 130	2	20
Isopropylbenzene			50.0	44.2		ug/L		88	70 - 130	2	30
m,p-Xylenes			50.0	50.6		ug/L		101	70 - 130	0	30
Methyl acetate			100	97.3		ug/L		97	67 - 120	18	30
Methyl tert-butyl ether			50.0	49.7		ug/L		99	70 - 130	5	30
Methylene Chloride			50.0	57.3		ug/L		115	70 - 130	2	30
o-Xylene			50.0	43.9		ug/L		88	70 - 130	2	30
Styrene			50.0	44.7		ug/L		89	70 - 130	0	30
Tetrachloroethene			50.0	51.8		ug/L		104	70 - 130	3	30
Toluene			50.0	56.4		ug/L		113	70 - 130	0	30
trans-1,2-Dichloroethene			50.0	57.5		ug/L		115	70 - 130	2	30
trans-1,3-Dichloropropene			50.0	51.3		ug/L		103	70 - 130	5	30
Trichloroethene			50.0	51.8		ug/L		104	70 - 130	1	30
Trichlorofluoromethane			50.0	51.8		ug/L		104	63 - 142	1	30
Vinyl chloride			50.0	62.9		ug/L		126	66 - 129	0	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-804471/5
Matrix: Water
Analysis Batch: 804471

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Xylenes, Total			100	94.5		ug/L		95	70 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 124*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*
Dibromofluoromethane (Surr)	*107*		*70 - 130*
Toluene-d8 (Surr)	*109*		*70 - 130*

GC/MS VOA

Analysis Batch: 804255

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-28871-1	LC34-DPT0995-008.0-20231017	Total/NA	Water	8260D	
670-28871-2	LC34-DPT0995-013.0-20231017	Total/NA	Water	8260D	
670-28871-4	LC34-DPT0995-025.0-20231017	Total/NA	Water	8260D	
670-28871-5	LC34-DPT0995-034.0-20231017	Total/NA	Water	8260D	
670-28871-6	LC34-DPT0995-038.0-20231017	Total/NA	Water	8260D	
670-28871-7	LC34-DPT0996-008.0-20231017	Total/NA	Water	8260D	
670-28871-8	LC34-DPT0996-013.0-20231017	Total/NA	Water	8260D	
670-28871-9	LC34-DPT0996-018.0-20231017	Total/NA	Water	8260D	
670-28871-10	LC34-DPT0996-025.0-20231018	Total/NA	Water	8260D	
670-28871-11	LC34-DPT0996-034.0-20231018	Total/NA	Water	8260D	
670-28871-15	LC34-DPT0997-025.0-20231018	Total/NA	Water	8260D	
670-28871-16	LC34-DPT0997-018.0-20231018	Total/NA	Water	8260D	
670-28871-17	LC34-DPT0997-013.0-20231018	Total/NA	Water	8260D	
670-28871-18	LC34-DPT0997-008.0-20231018	Total/NA	Water	8260D	
670-28871-19	LC34-DPT0998-038.0-20231018	Total/NA	Water	8260D	
670-28871-20	LC34-DPT0998-032.0-20231018	Total/NA	Water	8260D	
670-28871-21	LC34-DPT0998-025.0-20231018	Total/NA	Water	8260D	
670-28871-22	LC34-DPT0998-018.0-20231018	Total/NA	Water	8260D	
670-28871-23	LC34-DPT0998-013.0-20231018	Total/NA	Water	8260D	
670-28871-24	LC34-DPT0998-008.0-20231018	Total/NA	Water	8260D	
MB 680-804255/8	Method Blank	Total/NA	Water	8260D	
LCS 680-804255/5	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-804255/9	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 804257

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-28871-1	LC34-DPT0995-008.0-20231017	Total/NA	Water	8260D	
670-28871-3	LC34-DPT0995-018.0-20231017	Total/NA	Water	8260D	
670-28871-6 - DL	LC34-DPT0995-038.0-20231017	Total/NA	Water	8260D	
670-28871-12	LC34-DPT0996-038.0-20231018	Total/NA	Water	8260D	
670-28871-14	LC34-DPT0997-032.0-20231018	Total/NA	Water	8260D	
MB 680-804257/9	Method Blank	Total/NA	Water	8260D	
LCS 680-804257/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-804257/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 804471

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-28871-13	LC34-DPT0997-038.0-20231018	Total/NA	Water	8260D	
670-28871-15	LC34-DPT0997-025.0-20231018	Total/NA	Water	8260D	
670-28871-21	LC34-DPT0998-025.0-20231018	Total/NA	Water	8260D	
MB 680-804471/9	Method Blank	Total/NA	Water	8260D	
LCS 680-804471/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-804471/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Lab Chronicle

Client: Tetra Tech, Inc.
Job ID: 670-28871-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT0995-008.0-20231017
Lab Sample ID: 670-28871-1
Date Collected: 10/17/23 14:40
Matrix: Water
Date Received: 10/19/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	804255	P1C	EET SAV	10/24/23 14:22
Total/NA	Analysis	8260D		1	804257	MLL	EET SAV	10/24/23 18:10

Client Sample ID: LC34-DPT0995-013.0-20231017
Lab Sample ID: 670-28871-2
Date Collected: 10/17/23 14:50
Matrix: Water
Date Received: 10/19/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	804255	P1C	EET SAV	10/24/23 14:43

Client Sample ID: LC34-DPT0995-018.0-20231017
Lab Sample ID: 670-28871-3
Date Collected: 10/17/23 15:05
Matrix: Water
Date Received: 10/19/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		10	804257	MLL	EET SAV	10/24/23 18:51

Client Sample ID: LC34-DPT0995-025.0-20231017
Lab Sample ID: 670-28871-4
Date Collected: 10/17/23 15:20
Matrix: Water
Date Received: 10/19/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		50	804255	P1C	EET SAV	10/24/23 13:17

Client Sample ID: LC34-DPT0995-034.0-20231017
Lab Sample ID: 670-28871-5
Date Collected: 10/17/23 15:35
Matrix: Water
Date Received: 10/19/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		50	804255	P1C	EET SAV	10/24/23 13:38

Client Sample ID: LC34-DPT0995-038.0-20231017
Lab Sample ID: 670-28871-6
Date Collected: 10/17/23 15:55
Matrix: Water
Date Received: 10/19/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		10	804255	P1C	EET SAV	10/24/23 14:00
Total/NA	Analysis	8260D	DL	25	804257	MLL	EET SAV	10/24/23 17:51

Client Sample ID: LC34-DPT0996-008.0-20231017
Lab Sample ID: 670-28871-7
Date Collected: 10/17/23 16:30
Matrix: Water
Date Received: 10/19/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	804255	P1C	EET SAV	10/24/23 15:27

Lab Chronicle

Client: Tetra Tech, Inc.
Job ID: 670-28871-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT0996-013.0-20231017
Lab Sample ID: 670-28871-8
Date Collected: 10/17/23 16:45
Matrix: Water
Date Received: 10/19/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	804255	P1C	EET SAV	10/24/23 15:48

Client Sample ID: LC34-DPT0996-018.0-20231017
Lab Sample ID: 670-28871-9
Date Collected: 10/17/23 17:00
Matrix: Water
Date Received: 10/19/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	804255	P1C	EET SAV	10/24/23 16:10

Client Sample ID: LC34-DPT0996-025.0-20231018
Lab Sample ID: 670-28871-10
Date Collected: 10/18/23 07:45
Matrix: Water
Date Received: 10/19/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	804255	P1C	EET SAV	10/24/23 16:31

Client Sample ID: LC34-DPT0996-034.0-20231018
Lab Sample ID: 670-28871-11
Date Collected: 10/18/23 08:00
Matrix: Water
Date Received: 10/19/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	804255	P1C	EET SAV	10/24/23 16:53

Client Sample ID: LC34-DPT0996-038.0-20231018
Lab Sample ID: 670-28871-12
Date Collected: 10/18/23 08:15
Matrix: Water
Date Received: 10/19/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		50	804257	MLL	EET SAV	10/24/23 19:33

Client Sample ID: LC34-DPT0997-038.0-20231018
Lab Sample ID: 670-28871-13
Date Collected: 10/18/23 10:05
Matrix: Water
Date Received: 10/19/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	804471	MLL	EET SAV	10/25/23 14:55

Client Sample ID: LC34-DPT0997-032.0-20231018
Lab Sample ID: 670-28871-14
Date Collected: 10/18/23 10:20
Matrix: Water
Date Received: 10/19/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		25	804257	MLL	EET SAV	10/24/23 19:12

Lab Chronicle

Client: Tetra Tech, Inc.
Job ID: 670-28871-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT0997-025.0-20231018
Lab Sample ID: 670-28871-15
Date Collected: 10/18/23 10:35
Matrix: Water
Date Received: 10/19/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		2	804255	P1C	EET SAV	10/24/23 20:08
Total/NA	Analysis	8260D		10	804471	MLL	EET SAV	10/25/23 15:16

Client Sample ID: LC34-DPT0997-018.0-20231018
Lab Sample ID: 670-28871-16
Date Collected: 10/18/23 10:50
Matrix: Water
Date Received: 10/19/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	804255	P1C	EET SAV	10/24/23 17:15

Client Sample ID: LC34-DPT0997-013.0-20231018
Lab Sample ID: 670-28871-17
Date Collected: 10/18/23 11:05
Matrix: Water
Date Received: 10/19/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	804255	P1C	EET SAV	10/24/23 17:37

Client Sample ID: LC34-DPT0997-008.0-20231018
Lab Sample ID: 670-28871-18
Date Collected: 10/18/23 11:20
Matrix: Water
Date Received: 10/19/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	804255	P1C	EET SAV	10/24/23 17:58

Client Sample ID: LC34-DPT0998-038.0-20231018
Lab Sample ID: 670-28871-19
Date Collected: 10/18/23 12:10
Matrix: Water
Date Received: 10/19/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	804255	P1C	EET SAV	10/24/23 18:20

Client Sample ID: LC34-DPT0998-032.0-20231018
Lab Sample ID: 670-28871-20
Date Collected: 10/18/23 12:25
Matrix: Water
Date Received: 10/19/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	804255	P1C	EET SAV	10/24/23 18:42

Client Sample ID: LC34-DPT0998-025.0-20231018
Lab Sample ID: 670-28871-21
Date Collected: 10/18/23 12:40
Matrix: Water
Date Received: 10/19/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		5	804255	P1C	EET SAV	10/24/23 21:13
Total/NA	Analysis	8260D		25	804471	MLL	EET SAV	10/25/23 15:37

Lab Chronicle

Client: Tetra Tech, Inc.
Job ID: 670-28871-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT0998-018.0-20231018
Lab Sample ID: 670-28871-22
Date Collected: 10/18/23 12:55
Matrix: Water
Date Received: 10/19/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	804255	P1C	EET SAV	10/24/23 19:03

Client Sample ID: LC34-DPT0998-013.0-20231018
Lab Sample ID: 670-28871-23
Date Collected: 10/18/23 13:10
Matrix: Water
Date Received: 10/19/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	804255	P1C	EET SAV	10/24/23 19:25

Client Sample ID: LC34-DPT0998-008.0-20231018
Lab Sample ID: 670-28871-24
Date Collected: 10/18/23 13:25
Matrix: Water
Date Received: 10/19/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	804255	P1C	EET SAV	10/24/23 19:46

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: Tetra Tech, Inc.
Job ID: 670-28871-1
Project/Site: NASA KSC LC34 DPT

Laboratory: Eurofins Savannah

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
	AFCEE	SAVLAB	
Alabama	State	41450	06-30-24
ANAB	Dept. of Defense ELAP	L2463	10-26-23
Arkansas DEQ	State	19-015-0	02-01-24
California	State	2939	06-30-24
Florida	NELAP	E87052	06-30-24
Georgia	State	E87052	06-30-24
Georgia (DW)	State	803	06-30-24
Guam	State	19-007R	04-17-24
Hawaii	State	<cert No.>	06-30-24
Illinois	NELAP	200022	11-30-23
Indiana	State	C-GA-02	06-30-24
Iowa	State	353	07-01-25
Kentucky (UST)	State	NA	06-30-24
Louisiana	NELAP	30690	06-30-24
Louisiana (All)	NELAP	30690	06-30-24
Louisiana (DW)	State	LA009	12-31-23
Maine	State	GA00006	09-25-24
Maryland	State	250	12-31-23
Massachusetts	State	M-GA006	06-30-24
Michigan	State	9925	06-30-24
Mississippi	State	<cert No.>	06-30-24
Nebraska	State	NE-OS-7-04	06-30-24
New Jersey	NELAP	GA769	06-30-24
New Mexico	State	GA00006	06-30-24
North Carolina (DW)	State	13701	07-31-24
North Carolina (WW/SW)	State	269	12-31-23
Pennsylvania	NELAP	68-00474	06-30-24
Puerto Rico	State	GA00006	01-01-24
South Carolina	State	98001	06-24-24
Tennessee	State	TN02961	06-30-24
Texas	NELAP	T1047004185	11-30-23
Texas	TCEQ Water Supply	T104704185	06-30-24
USDA	US Federal Programs	P330-18-00313	09-03-24
Virginia	NELAP	460161	06-14-24
Wyoming	State	8TMS-L	06-30-24

Method Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28871-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET SAV
5030B	Purge and Trap	SW846	EET SAV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Sample Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28871-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
670-28871-1	LC34-DPT0995-008.0-20231017	Water	10/17/23 14:40	10/19/23 08:00
670-28871-2	LC34-DPT0995-013.0-20231017	Water	10/17/23 14:50	10/19/23 08:00
670-28871-3	LC34-DPT0995-018.0-20231017	Water	10/17/23 15:05	10/19/23 08:00
670-28871-4	LC34-DPT0995-025.0-20231017	Water	10/17/23 15:20	10/19/23 08:00
670-28871-5	LC34-DPT0995-034.0-20231017	Water	10/17/23 15:35	10/19/23 08:00
670-28871-6	LC34-DPT0995-038.0-20231017	Water	10/17/23 15:55	10/19/23 08:00
670-28871-7	LC34-DPT0996-008.0-20231017	Water	10/17/23 16:30	10/19/23 08:00
670-28871-8	LC34-DPT0996-013.0-20231017	Water	10/17/23 16:45	10/19/23 08:00
670-28871-9	LC34-DPT0996-018.0-20231017	Water	10/17/23 17:00	10/19/23 08:00
670-28871-10	LC34-DPT0996-025.0-20231018	Water	10/18/23 07:45	10/19/23 08:00
670-28871-11	LC34-DPT0996-034.0-20231018	Water	10/18/23 08:00	10/19/23 08:00
670-28871-12	LC34-DPT0996-038.0-20231018	Water	10/18/23 08:15	10/19/23 08:00
670-28871-13	LC34-DPT0997-038.0-20231018	Water	10/18/23 10:05	10/19/23 08:00
670-28871-14	LC34-DPT0997-032.0-20231018	Water	10/18/23 10:20	10/19/23 08:00
670-28871-15	LC34-DPT0997-025.0-20231018	Water	10/18/23 10:35	10/19/23 08:00
670-28871-16	LC34-DPT0997-018.0-20231018	Water	10/18/23 10:50	10/19/23 08:00
670-28871-17	LC34-DPT0997-013.0-20231018	Water	10/18/23 11:05	10/19/23 08:00
670-28871-18	LC34-DPT0997-008.0-20231018	Water	10/18/23 11:20	10/19/23 08:00
670-28871-19	LC34-DPT0998-038.0-20231018	Water	10/18/23 12:10	10/19/23 08:00
670-28871-20	LC34-DPT0998-032.0-20231018	Water	10/18/23 12:25	10/19/23 08:00
670-28871-21	LC34-DPT0998-025.0-20231018	Water	10/18/23 12:40	10/19/23 08:00
670-28871-22	LC34-DPT0998-018.0-20231018	Water	10/18/23 12:55	10/19/23 08:00
670-28871-23	LC34-DPT0998-013.0-20231018	Water	10/18/23 13:10	10/19/23 08:00
670-28871-24	LC34-DPT0998-008.0-20231018	Water	10/18/23 13:25	10/19/23 08:00

Tetra Tech, Inc.

CHAIN OF CUSTODY | NUMBER No. 3782 | PAGE 1 OF 2

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G08985	ITSC-LC34	Mark Jonnet	(412) 921-8622	Eurofins — Kaitlin Dylnicki
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER	PHONE NUMBER	ADDRESS
-Chuck Sorden		Chuck Sorden	(321) 591-7580	481 Newburyport Ave.
		CARRIER/WAYBILL NUMBER		CITY, STATE
				Altamonte Springs, FL

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2023	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)		COMMENTS
									G	G	
									PRESERVATIVE USED		HCl/4°C 4°C
									TYPE OF ANALYSIS		
									8260D-(MOD) NASA LC34 Custom List	8260D-(MOD) NASA LC34 Custom List	
10/17	1440	LC34-DPT0995-008.0-20231017	23	6	10	GW	G	4	X	X	
	1450	LC34-DPT0995-013.0-20231017		11	15						
	1505	LC34-DPT0995-018.0-20231017		16	20						
	1520	LC34-DPT0995-025.0-20231017		23	27						
	1535	LC34-DPT0995-034.0-20231017		32	36						
	1555	LC34-DPT0995-038.0-20231017	23	36	40						
	1630	LC34-DPT0996-008.0-20231017		6	10						
	1645	LC34-DPT0996-013.0-20231017		11	15						
10/17	1700	LC34-DPT0996-018.0-20231017		16	20						
10/18	0745	LC34-DPT0996-025.0-20231018		23	27						
	0800	LC34-DPT0996-034.0-20231018		32	36						
	0815	LC34-DPT0996-038.0-20231018	23	36	40						
10/18	1005	LC34-DPT0997-038.0-20231018	149	36	40	GW	G	4	X	X	

670-28871 Chain of Custody

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	10/18/23	1400	1. RECEIVED BY	10-19-23	0800
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS 2.0/1.5

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY) 4/02R FORM NO. TtNUS-072

Tetra Tech, Inc. | CHAIN OF CUSTODY | NUMBER No. 3784 | PAGE 2 OF 2

PROJECT NO: 112G08985	FACILITY: KSC-LC34	PROJECT MANAGER Mark Sonnet	PHONE NUMBER (412) 921-8622	LABORATORY NAME AND CONTACT: Eurofins – Kaitlin Dylnicki
SAMPLERS (SIGNATURE) – Chuck Sorden		FIELD OPERATIONS LEADER Chuck Sorden	PHONE NUMBER (321) 591-7580	ADDRESS 481 Newburyport Ave.
		CARRIER/WAYBILL NUMBER		CITY, STATE Altamonte Springs, FL

STANDARD TAT ☒ RUSH TAT ☐ ☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): G G

PRESERVATIVE USED: HCl/4°C 4°C

TYPE OF ANALYSIS: 8260D-(MOD) NASA LC34 Custom List; 8260D-(MOD) NASA LC34 Custom List

DATE (YEAR 2023)	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS			COMMENTS
10/18	1020	LC34-DPT0997-032.0-20231018	149	30	34	GW	G	4	X	X	
	1035	LC34-DPT0997-025.0-20231018		23	27						
	1050	LC34-DPT0997-018.0-20231018		16	20						
	1105	LC34-DPT0997-013.0-20231018		11	15						
	1120	LC34-DPT0997-008.0-20231018	149	6	10						
	1210	LC34-DPT0998-038.0-20231018	148	36	40						
	1225	LC34-DPT0998-032.0-20231018		30	34						
	1240	LC34-DPT0998-025.0-20231018		23	27						
	1255	LC34-DPT0998-~~034.0~~ 018.0-20231018		16	20						
	1310	LC34-DPT0998-013.0-20231018		11	15						
10/18	1325	LC34-DPT0998-008.0-20231018	148	6	10	GW	G	4	X	X	

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	10/18/23	1400	1. RECEIVED BY	10-19-23	0900
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS: 2.0/1.5

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY) 4/02R FORM NO. TINUS-001

Eurofins Orlando
481 Newburyport Avenue
Altamonte Springs, FL 32701
Phone: 407-339-5984 Fax: 407-260-6110

Chain of Custody Record

eurofins

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Dylnicki, Kaitlin	Carrier Tracking No(s):	COC No: 670-17340.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: kaitlin.dylnicki@et.eurofinsus.com	State of Origin: Florida	Page: Page 1 of 3
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP - Florida		Job #: 670-28871-1
Address: 5102 LaRoche Avenue, .	Due Date Requested: 10/31/2023			
City: Savannah	TAT Requested (days):			
State, Zip: GA, 31404				
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	PO #:			
Email:	WO #:			
Project Name: NASA KSC LC34	Project #: 67001156			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Wwater, Ssolid, Owaste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D/5030B (MOD) NASA LC34 Custom	8260D/5030B_UP (MOD) NASA LC34 Custom	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
LC34-DPT0995-008.0-20231017 (670-28871-1)	10/17/23	14:40 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0995-013.0-20231017 (670-28871-2)	10/17/23	14:50 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0995-018.0-20231017 (670-28871-3)	10/17/23	15:05 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0995-025.0-20231017 (670-28871-4)	10/17/23	15:20 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0995-034.0-20231017 (670-28871-5)	10/17/23	15:35 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0995-038.0-20231017 (670-28871-6)	10/17/23	15:55 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0996-008.0-20231017 (670-28871-7)	10/17/23	16:30 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0996-013.0-20231017 (670-28871-8)	10/17/23	16:45 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0996-018.0-20231017 (670-28871-9)	10/17/23	17:00 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	10/19 1500			10/20/23	10:32
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.7/4.0

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 670-28871-1

Login Number: 28871
List Number: 1
Creator: Lavardera, Angelina

List Source: Eurofins Orlando

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 670-28871-1

Login Number: 28871
List Number: 2
Creator: Harley, Tynisha

List Source: Eurofins Savannah
List Creation: 10/20/23 03:12 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Mark Jonnet
Tetra Tech, Inc.
Foster Plaza 7
661 Anderson Drive
Suite 200
Pittsburgh, Pennsylvania 15220-2745

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JOB DESCRIPTION

NASA KSC LC34 DPT

JOB NUMBER

670-28953-1

Eurofins Orlando
481 Newburyport Avenue
Altamonte Springs FL 32701

See page two for job notes and contact information.

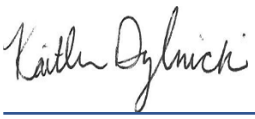
my EOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization



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Definitions/Glossary

Client: Tetra Tech, Inc.
Job ID: 670-28953-1
Project/Site: NASA KSC LC34 DPT

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
U	Indicates that the compound was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 670-28953-1

Laboratory: Eurofins Orlando

Narrative

Job Narrative
Client: Tetra Tech
Client PM: Mark Jonnet
Project: NASA KSC LC34
Project Number: 112G08985
670-28953-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 10/20/2023 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.9°C

GC/MS VOA

Method 8260D: The continuing calibration verification (CCV) analyzed in batch 680-804481 was outside the method criteria for the following analyte(s): 1,2-Dibromo-3-Chloropropane, Bromoform and Chloroethane. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8260D: The following samples were diluted to bring the concentration of target analytes within the calibration range: LC34-DPT1000-025.0-20231018 (670-28953-9) and LC34-DPT1000-018.0-20231018 (670-28953-10). Elevated reporting limits (RLs) are provided.

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-804481.

Method 8260D: The continuing calibration verification (CCV) associated with batch 680-804460 recovered outside acceptance criteria, low biased, for 2-Butanone (MEK). A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

Method 8260D: The following samples were diluted to bring the concentration of target analytes within the calibration range: LC34-DPT0999-025.0-20231018 (670-28953-3) and LC34-DPT0999-018.0-20231018 (670-28953-4). Elevated reporting limits (RLs) are provided.

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-804460.

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-804647.

Method 8260D: The following samples were diluted to bring the concentration of target analytes within the calibration range: LC34-DPT1001-025.0-20231019 (670-28953-15), LC34-DPT1002-025.0-20231019 (670-28953-21) and LC34-DPT1003-025.0-20231019 (670-28953-27). Elevated reporting limits (RLs) are provided.

Job ID: 670-28953-1 (Continued)

Laboratory: Eurofins Orlando (Continued)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28953-1

Client Sample ID: LC34-DPT0999-038.0-20231018 — Lab Sample ID: 670-28953-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.82	I	2.0	0.43	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0999-032.0-20231018 — Lab Sample ID: 670-28953-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.75	I	2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.26	I	1.0	0.25	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0999-025.0-20231018 — Lab Sample ID: 670-28953-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	110		100	37	ug/L	10		8260D	Total/NA
cis-1,2-Dichloroethene	1400		10	2.5	ug/L	10		8260D	Total/NA
Vinyl chloride	910		10	4.0	ug/L	10		8260D	Total/NA

Client Sample ID: LC34-DPT0999-018.0-20231018 — Lab Sample ID: 670-28953-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	15	I	20	7.4	ug/L	2		8260D	Total/NA
cis-1,2-Dichloroethene	160		2.0	0.50	ug/L	2		8260D	Total/NA
Vinyl chloride	320		2.0	0.80	ug/L	2		8260D	Total/NA

Client Sample ID: LC34-DPT0999-013.0-20231018 — Lab Sample ID: 670-28953-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	7.5		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	11		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0999-008.0-20231018 — Lab Sample ID: 670-28953-6

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	3.9		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	5.2		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT1000-038.0-20231018 — Lab Sample ID: 670-28953-7

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	1.1	I	2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.29	I	1.0	0.25	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT1000-032.0-20231018 — Lab Sample ID: 670-28953-8

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	1.3	I	2.0	0.43	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT1000-025.0-20231018 — Lab Sample ID: 670-28953-9

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	170		2.0	0.80	ug/L	2		8260D	Total/NA
cis-1,2-Dichloroethene - DL	440		5.0	1.3	ug/L	5		8260D	Total/NA

Client Sample ID: LC34-DPT1000-018.0-20231018 — Lab Sample ID: 670-28953-10

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	380		5.0	1.3	ug/L	5		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: LC34-DPT1000-018.0-20231018 (Continued) — Lab Sample ID: 670-28953-10

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	730		5.0	2.0	ug/L	5		8260D	Total/NA

Client Sample ID: LC34-DPT1000-013.0-20231018 — Lab Sample ID: 670-28953-11

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	6.5		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	17		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT1000-008.0-20231018 — Lab Sample ID: 670-28953-12

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.5		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	4.9		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT1001-038.0-20231018 — Lab Sample ID: 670-28953-13

No Detections.

Client Sample ID: LC34-DPT1001-032.0-20231019 — Lab Sample ID: 670-28953-14

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.64	I	2.0	0.43	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT1001-025.0-20231019 — Lab Sample ID: 670-28953-15

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	84	I	100	37	ug/L	10		8260D	Total/NA
cis-1,2-Dichloroethene	1600		10	2.5	ug/L	10		8260D	Total/NA
Vinyl chloride	770		10	4.0	ug/L	10		8260D	Total/NA

Client Sample ID: LC34-DPT1001-018.0-20231019 — Lab Sample ID: 670-28953-16

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	55		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	140		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT1001-013.0-20231019 — Lab Sample ID: 670-28953-17

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	6.7		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	5.2		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT1001-008.0-20231019 — Lab Sample ID: 670-28953-18

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	4.6		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	3.2		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT1002-038.0-20231019 — Lab Sample ID: 670-28953-19

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.53	I	2.0	0.43	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT1002-032.0-20231019 — Lab Sample ID: 670-28953-20

No Detections.

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28953-1

Client Sample ID: LC34-DPT1002-025.0-20231019 — Lab Sample ID: 670-28953-21

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	110		100	37	ug/L	10		8260D	Total/NA
cis-1,2-Dichloroethene	750		10	2.5	ug/L	10		8260D	Total/NA
Vinyl chloride	810		10	4.0	ug/L	10		8260D	Total/NA

Client Sample ID: LC34-DPT1002-018.0-20231019 — Lab Sample ID: 670-28953-22

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	22		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	23		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT1002-013.0-20231019 — Lab Sample ID: 670-28953-23

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.6		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	3.0		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT1002-008.0-20231019 — Lab Sample ID: 670-28953-24

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.49	I	1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	0.91	I	1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT1003-038.0-20231019 — Lab Sample ID: 670-28953-25

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.99	I	2.0	0.43	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT1003-032.0-20231019 — Lab Sample ID: 670-28953-26

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	47		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	4.3		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT1003-025.0-20231019 — Lab Sample ID: 670-28953-27

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	68	I	100	37	ug/L	10		8260D	Total/NA
cis-1,2-Dichloroethene	1200		10	2.5	ug/L	10		8260D	Total/NA
trans-1,2-Dichloroethene	5.7	I	10	3.4	ug/L	10		8260D	Total/NA
Vinyl chloride	1200		10	4.0	ug/L	10		8260D	Total/NA

Client Sample ID: LC34-DPT1003-018.0-20231019 — Lab Sample ID: 670-28953-28

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	17		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	29		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT1003-013.0-20231019 — Lab Sample ID: 670-28953-29

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	6.5		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	8.9		1.0	0.40	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Tetra Tech, Inc.
Job ID: 670-28953-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT1003-008.0-20231019
Lab Sample ID: 670-28953-30

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.9		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	3.2		1.0	0.40	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28953-1

Client Sample ID: LC34-DPT0999-038.0-20231018
Date Collected: 10/18/23 14:05
Date Received: 10/20/23 08:00

Lab Sample ID: 670-28953-1
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/25/23 13:17	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/25/23 13:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/25/23 13:17	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/25/23 13:17	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/25/23 13:17	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/25/23 13:17	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/25/23 13:17	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/25/23 13:17	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/25/23 13:17	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/25/23 13:17	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/25/23 13:17	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/25/23 13:17	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/25/23 13:17	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/25/23 13:17	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/25/23 13:17	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/25/23 13:17	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/25/23 13:17	1
Acetone	3.7	U	10	3.7	ug/L			10/25/23 13:17	1
Benzene	0.27	U	1.0	0.27	ug/L			10/25/23 13:17	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/25/23 13:17	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/25/23 13:17	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/25/23 13:17	1
Carbon disulfide	**0.82**	**I**	2.0	0.43	ug/L			10/25/23 13:17	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/25/23 13:17	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/25/23 13:17	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/25/23 13:17	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/25/23 13:17	1
Chloromethane	0.54	U J3	1.0	0.54	ug/L			10/25/23 13:17	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/25/23 13:17	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/25/23 13:17	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/25/23 13:17	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/25/23 13:17	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/25/23 13:17	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/25/23 13:17	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/25/23 13:17	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/25/23 13:17	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/25/23 13:17	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/25/23 13:17	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/25/23 13:17	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/25/23 13:17	1
Styrene	0.27	U	1.0	0.27	ug/L			10/25/23 13:17	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/25/23 13:17	1
Toluene	0.25	U	1.0	0.25	ug/L			10/25/23 13:17	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/25/23 13:17	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/25/23 13:17	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/25/23 13:17	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/25/23 13:17	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/25/23 13:17	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/25/23 13:17	1

Client Sample ID: LC34-DPT0999-038.0-20231018
Lab Sample ID: 670-28953-1

Date Collected: 10/18/23 14:05
Matrix: Water
Date Received: 10/20/23 08:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*78*		*60 - 124*		*10/25/23 13:17*	*1*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*		*10/25/23 13:17*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*10/25/23 13:17*	*1*
Toluene-d8 (Surr)	*105*		*70 - 130*		*10/25/23 13:17*	*1*

Client Sample ID: LC34-DPT0999-032.0-20231018
Lab Sample ID: 670-28953-2

Date Collected: 10/18/23 14:20
Matrix: Water
Date Received: 10/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/25/23 13:36	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/25/23 13:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/25/23 13:36	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/25/23 13:36	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/25/23 13:36	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/25/23 13:36	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/25/23 13:36	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/25/23 13:36	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/25/23 13:36	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/25/23 13:36	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/25/23 13:36	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/25/23 13:36	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/25/23 13:36	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/25/23 13:36	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/25/23 13:36	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/25/23 13:36	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/25/23 13:36	1
Acetone	3.7	U	10	3.7	ug/L			10/25/23 13:36	1
Benzene	0.27	U	1.0	0.27	ug/L			10/25/23 13:36	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/25/23 13:36	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/25/23 13:36	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/25/23 13:36	1
Carbon disulfide	**0.75**	**I**	2.0	0.43	ug/L			10/25/23 13:36	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/25/23 13:36	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/25/23 13:36	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/25/23 13:36	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/25/23 13:36	1
Chloromethane	0.54	U J3	1.0	0.54	ug/L			10/25/23 13:36	1
cis-1,2-Dichloroethene	**0.26**	**I**	1.0	0.25	ug/L			10/25/23 13:36	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/25/23 13:36	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/25/23 13:36	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/25/23 13:36	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/25/23 13:36	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/25/23 13:36	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/25/23 13:36	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/25/23 13:36	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/25/23 13:36	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/25/23 13:36	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/25/23 13:36	1

Client Sample ID: LC34-DPT0999-032.0-20231018
Lab Sample ID: 670-28953-2

Date Collected: 10/18/23 14:20
Matrix: Water
Date Received: 10/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	0.26	U	1.0	0.26	ug/L			10/25/23 13:36	1
Styrene	0.27	U	1.0	0.27	ug/L			10/25/23 13:36	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/25/23 13:36	1
Toluene	0.25	U	1.0	0.25	ug/L			10/25/23 13:36	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/25/23 13:36	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/25/23 13:36	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/25/23 13:36	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/25/23 13:36	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/25/23 13:36	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/25/23 13:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*78*		*60 - 124*		*10/25/23 13:36*	*1*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*		*10/25/23 13:36*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*10/25/23 13:36*	*1*
Toluene-d8 (Surr)	*108*		*70 - 130*		*10/25/23 13:36*	*1*

Client Sample ID: LC34-DPT0999-025.0-20231018
Lab Sample ID: 670-28953-3

Date Collected: 10/18/23 14:35
Matrix: Water
Date Received: 10/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2.1	U	10	2.1	ug/L			10/25/23 13:57	10
1,1,2,2-Tetrachloroethane	4.0	U	10	4.0	ug/L			10/25/23 13:57	10
1,1,2-Trichloro-1,2,2-trifluoroethane	2.3	U	10	2.3	ug/L			10/25/23 13:57	10
1,1,2-Trichloroethane	3.2	U	10	3.2	ug/L			10/25/23 13:57	10
1,1-Dichloroethane	3.3	U	10	3.3	ug/L			10/25/23 13:57	10
1,1-Dichloroethene	3.3	U	10	3.3	ug/L			10/25/23 13:57	10
1,2,4-Trichlorobenzene	5.3	U	50	5.3	ug/L			10/25/23 13:57	10
1,2-Dibromo-3-Chloropropane	18	U	50	18	ug/L			10/25/23 13:57	10
1,2-Dibromoethane (EDB)	3.3	U	10	3.3	ug/L			10/25/23 13:57	10
1,2-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/25/23 13:57	10
1,2-Dichloroethane	2.5	U	10	2.5	ug/L			10/25/23 13:57	10
1,2-Dichloropropane	2.2	U	10	2.2	ug/L			10/25/23 13:57	10
1,3-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/25/23 13:57	10
1,4-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/25/23 13:57	10
2-Butanone (MEK)	64	U	100	64	ug/L			10/25/23 13:57	10
2-Hexanone	32	U	100	32	ug/L			10/25/23 13:57	10
4-Methyl-2-pentanone	27	U	100	27	ug/L			10/25/23 13:57	10
Acetone	**110**		100	37	ug/L			10/25/23 13:57	10
Benzene	2.7	U	10	2.7	ug/L			10/25/23 13:57	10
Bromodichloromethane	2.5	U	10	2.5	ug/L			10/25/23 13:57	10
Bromoform	5.9	U	10	5.9	ug/L			10/25/23 13:57	10
Bromomethane	37	U	50	37	ug/L			10/25/23 13:57	10
Carbon disulfide	4.3	U	20	4.3	ug/L			10/25/23 13:57	10
Carbon tetrachloride	3.0	U	10	3.0	ug/L			10/25/23 13:57	10
Chlorobenzene	1.5	U	10	1.5	ug/L			10/25/23 13:57	10
Chloroethane	46	U	50	46	ug/L			10/25/23 13:57	10
Chloroform	2.7	U	10	2.7	ug/L			10/25/23 13:57	10

Client Sample ID: LC34-DPT0999-025.0-20231018
Lab Sample ID: 670-28953-3

Date Collected: 10/18/23 14:35
Matrix: Water
Date Received: 10/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	5.4	U J3	10	5.4	ug/L			10/25/23 13:57	10
cis-1,2-Dichloroethene	**1400**		10	2.5	ug/L			10/25/23 13:57	10
cis-1,3-Dichloropropene	2.6	U	10	2.6	ug/L			10/25/23 13:57	10
Cyclohexane	2.8	U	10	2.8	ug/L			10/25/23 13:57	10
Dibromochloromethane	3.9	U	10	3.9	ug/L			10/25/23 13:57	10
Dichlorodifluoromethane	3.6	U	10	3.6	ug/L			10/25/23 13:57	10
Ethylbenzene	2.0	U	10	2.0	ug/L			10/25/23 13:57	10
Isopropylbenzene	2.6	U	10	2.6	ug/L			10/25/23 13:57	10
m,p-Xylenes	4.9	U	10	4.9	ug/L			10/25/23 13:57	10
Methyl acetate	32	U	50	32	ug/L			10/25/23 13:57	10
Methyl tert-butyl ether	8.1	U	50	8.1	ug/L			10/25/23 13:57	10
Methylene Chloride	32	U	50	32	ug/L			10/25/23 13:57	10
o-Xylene	2.6	U	10	2.6	ug/L			10/25/23 13:57	10
Styrene	2.7	U	10	2.7	ug/L			10/25/23 13:57	10
Tetrachloroethene	3.5	U	10	3.5	ug/L			10/25/23 13:57	10
Toluene	2.5	U	10	2.5	ug/L			10/25/23 13:57	10
trans-1,2-Dichloroethene	3.4	U	10	3.4	ug/L			10/25/23 13:57	10
trans-1,3-Dichloropropene	2.3	U	10	2.3	ug/L			10/25/23 13:57	10
Trichloroethene	2.0	U	10	2.0	ug/L			10/25/23 13:57	10
Trichlorofluoromethane	3.3	U	10	3.3	ug/L			10/25/23 13:57	10
Vinyl chloride	**910**		10	4.0	ug/L			10/25/23 13:57	10
Xylenes, Total	2.3	U	10	2.3	ug/L			10/25/23 13:57	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*60 - 124*		*10/25/23 13:57*	*10*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*		*10/25/23 13:57*	*10*
Dibromofluoromethane (Surr)	*107*		*70 - 130*		*10/25/23 13:57*	*10*
Toluene-d8 (Surr)	*105*		*70 - 130*		*10/25/23 13:57*	*10*

Client Sample ID: LC34-DPT0999-018.0-20231018
Lab Sample ID: 670-28953-4

Date Collected: 10/18/23 14:50
Matrix: Water
Date Received: 10/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.42	U	2.0	0.42	ug/L			10/25/23 14:18	2
1,1,2,2-Tetrachloroethane	0.80	U	2.0	0.80	ug/L			10/25/23 14:18	2
1,1,2-Trichloro-1,2,2-trifluoroethane	0.46	U	2.0	0.46	ug/L			10/25/23 14:18	2
1,1,2-Trichloroethane	0.64	U	2.0	0.64	ug/L			10/25/23 14:18	2
1,1-Dichloroethane	0.66	U	2.0	0.66	ug/L			10/25/23 14:18	2
1,1-Dichloroethene	0.66	U	2.0	0.66	ug/L			10/25/23 14:18	2
1,2,4-Trichlorobenzene	1.1	U	10	1.1	ug/L			10/25/23 14:18	2
1,2-Dibromo-3-Chloropropane	3.6	U	10	3.6	ug/L			10/25/23 14:18	2
1,2-Dibromoethane (EDB)	0.66	U	2.0	0.66	ug/L			10/25/23 14:18	2
1,2-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/25/23 14:18	2
1,2-Dichloroethane	0.50	U	2.0	0.50	ug/L			10/25/23 14:18	2
1,2-Dichloropropane	0.44	U	2.0	0.44	ug/L			10/25/23 14:18	2
1,3-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/25/23 14:18	2
1,4-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/25/23 14:18	2
2-Butanone (MEK)	13	U	20	13	ug/L			10/25/23 14:18	2

Client Sample ID: LC34-DPT0999-018.0-20231018
Lab Sample ID: 670-28953-4

Date Collected: 10/18/23 14:50
Matrix: Water
Date Received: 10/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	6.4	U	20	6.4	ug/L			10/25/23 14:18	2
4-Methyl-2-pentanone	5.4	U	20	5.4	ug/L			10/25/23 14:18	2
Acetone	**15**	**I**	20	7.4	ug/L			10/25/23 14:18	2
Benzene	0.54	U	2.0	0.54	ug/L			10/25/23 14:18	2
Bromodichloromethane	0.50	U	2.0	0.50	ug/L			10/25/23 14:18	2
Bromoform	1.2	U	2.0	1.2	ug/L			10/25/23 14:18	2
Bromomethane	7.4	U	10	7.4	ug/L			10/25/23 14:18	2
Carbon disulfide	0.86	U	4.0	0.86	ug/L			10/25/23 14:18	2
Carbon tetrachloride	0.60	U	2.0	0.60	ug/L			10/25/23 14:18	2
Chlorobenzene	0.30	U	2.0	0.30	ug/L			10/25/23 14:18	2
Chloroethane	9.2	U	10	9.2	ug/L			10/25/23 14:18	2
Chloroform	0.54	U	2.0	0.54	ug/L			10/25/23 14:18	2
Chloromethane	1.1	U J3	2.0	1.1	ug/L			10/25/23 14:18	2
cis-1,2-Dichloroethene	**160**		2.0	0.50	ug/L			10/25/23 14:18	2
cis-1,3-Dichloropropene	0.52	U	2.0	0.52	ug/L			10/25/23 14:18	2
Cyclohexane	0.56	U	2.0	0.56	ug/L			10/25/23 14:18	2
Dibromochloromethane	0.78	U	2.0	0.78	ug/L			10/25/23 14:18	2
Dichlorodifluoromethane	0.72	U	2.0	0.72	ug/L			10/25/23 14:18	2
Ethylbenzene	0.40	U	2.0	0.40	ug/L			10/25/23 14:18	2
Isopropylbenzene	0.52	U	2.0	0.52	ug/L			10/25/23 14:18	2
m,p-Xylenes	0.98	U	2.0	0.98	ug/L			10/25/23 14:18	2
Methyl acetate	6.4	U	10	6.4	ug/L			10/25/23 14:18	2
Methyl tert-butyl ether	1.6	U	10	1.6	ug/L			10/25/23 14:18	2
Methylene Chloride	6.4	U	10	6.4	ug/L			10/25/23 14:18	2
o-Xylene	0.52	U	2.0	0.52	ug/L			10/25/23 14:18	2
Styrene	0.54	U	2.0	0.54	ug/L			10/25/23 14:18	2
Tetrachloroethene	0.70	U	2.0	0.70	ug/L			10/25/23 14:18	2
Toluene	0.50	U	2.0	0.50	ug/L			10/25/23 14:18	2
trans-1,2-Dichloroethene	0.68	U	2.0	0.68	ug/L			10/25/23 14:18	2
trans-1,3-Dichloropropene	0.46	U	2.0	0.46	ug/L			10/25/23 14:18	2
Trichloroethene	0.40	U	2.0	0.40	ug/L			10/25/23 14:18	2
Trichlorofluoromethane	0.66	U	2.0	0.66	ug/L			10/25/23 14:18	2
Vinyl chloride	**320**		2.0	0.80	ug/L			10/25/23 14:18	2
Xylenes, Total	0.46	U	2.0	0.46	ug/L			10/25/23 14:18	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*85*		*60 - 124*		*10/25/23 14:18*	*2*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*		*10/25/23 14:18*	*2*
Dibromofluoromethane (Surr)	*105*		*70 - 130*		*10/25/23 14:18*	*2*
Toluene-d8 (Surr)	*107*		*70 - 130*		*10/25/23 14:18*	*2*

Client Sample ID: LC34-DPT0999-013.0-20231018
Lab Sample ID: 670-28953-5

Date Collected: 10/18/23 15:05
Matrix: Water
Date Received: 10/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/25/23 14:37	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/25/23 14:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/25/23 14:37	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28953-1

Client Sample ID: LC34-DPT0999-013.0-20231018
Date Collected: 10/18/23 15:05
Date Received: 10/20/23 08:00

Lab Sample ID: 670-28953-5
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/25/23 14:37	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/25/23 14:37	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/25/23 14:37	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/25/23 14:37	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/25/23 14:37	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/25/23 14:37	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/25/23 14:37	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/25/23 14:37	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/25/23 14:37	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/25/23 14:37	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/25/23 14:37	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/25/23 14:37	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/25/23 14:37	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/25/23 14:37	1
Acetone	3.7	U	10	3.7	ug/L			10/25/23 14:37	1
Benzene	0.27	U	1.0	0.27	ug/L			10/25/23 14:37	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/25/23 14:37	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/25/23 14:37	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/25/23 14:37	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/25/23 14:37	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/25/23 14:37	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/25/23 14:37	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/25/23 14:37	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/25/23 14:37	1
Chloromethane	0.54	U J3	1.0	0.54	ug/L			10/25/23 14:37	1
cis-1,2-Dichloroethene	**7.5**		1.0	0.25	ug/L			10/25/23 14:37	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/25/23 14:37	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/25/23 14:37	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/25/23 14:37	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/25/23 14:37	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/25/23 14:37	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/25/23 14:37	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/25/23 14:37	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/25/23 14:37	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/25/23 14:37	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/25/23 14:37	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/25/23 14:37	1
Styrene	0.27	U	1.0	0.27	ug/L			10/25/23 14:37	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/25/23 14:37	1
Toluene	0.25	U	1.0	0.25	ug/L			10/25/23 14:37	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/25/23 14:37	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/25/23 14:37	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/25/23 14:37	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/25/23 14:37	1
Vinyl chloride	**11**		1.0	0.40	ug/L			10/25/23 14:37	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/25/23 14:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*81*		*60 - 124*		*10/25/23 14:37*	*1*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*10/25/23 14:37*	*1*

Client Sample ID: LC34-DPT0999-013.0-20231018
Lab Sample ID: 670-28953-5

Date Collected: 10/18/23 15:05
Matrix: Water
Date Received: 10/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*10/25/23 14:37*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*10/25/23 14:37*	*1*

Client Sample ID: LC34-DPT0999-008.0-20231018
Lab Sample ID: 670-28953-6

Date Collected: 10/18/23 15:20
Matrix: Water
Date Received: 10/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/25/23 14:56	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/25/23 14:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/25/23 14:56	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/25/23 14:56	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/25/23 14:56	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/25/23 14:56	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/25/23 14:56	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/25/23 14:56	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/25/23 14:56	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/25/23 14:56	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/25/23 14:56	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/25/23 14:56	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/25/23 14:56	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/25/23 14:56	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/25/23 14:56	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/25/23 14:56	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/25/23 14:56	1
Acetone	3.7	U	10	3.7	ug/L			10/25/23 14:56	1
Benzene	0.27	U	1.0	0.27	ug/L			10/25/23 14:56	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/25/23 14:56	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/25/23 14:56	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/25/23 14:56	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/25/23 14:56	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/25/23 14:56	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/25/23 14:56	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/25/23 14:56	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/25/23 14:56	1
Chloromethane	0.54	U J3	1.0	0.54	ug/L			10/25/23 14:56	1
cis-1,2-Dichloroethene	**3.9**		1.0	0.25	ug/L			10/25/23 14:56	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/25/23 14:56	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/25/23 14:56	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/25/23 14:56	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/25/23 14:56	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/25/23 14:56	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/25/23 14:56	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/25/23 14:56	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/25/23 14:56	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/25/23 14:56	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/25/23 14:56	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/25/23 14:56	1

Client Sample ID: LC34-DPT0999-008.0-20231018
Lab Sample ID: 670-28953-6

Date Collected: 10/18/23 15:20
Matrix: Water
Date Received: 10/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.27	U	1.0	0.27	ug/L			10/25/23 14:56	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/25/23 14:56	1
Toluene	0.25	U	1.0	0.25	ug/L			10/25/23 14:56	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/25/23 14:56	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/25/23 14:56	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/25/23 14:56	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/25/23 14:56	1
Vinyl chloride	**5.2**		1.0	0.40	ug/L			10/25/23 14:56	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/25/23 14:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*81*		*60 - 124*		*10/25/23 14:56*	*1*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*		*10/25/23 14:56*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*10/25/23 14:56*	*1*
Toluene-d8 (Surr)	*108*		*70 - 130*		*10/25/23 14:56*	*1*

Client Sample ID: LC34-DPT1000-038.0-20231018
Lab Sample ID: 670-28953-7

Date Collected: 10/18/23 15:50
Matrix: Water
Date Received: 10/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/25/23 14:04	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/25/23 14:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/25/23 14:04	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/25/23 14:04	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/25/23 14:04	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/25/23 14:04	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/25/23 14:04	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/25/23 14:04	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/25/23 14:04	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/25/23 14:04	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/25/23 14:04	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/25/23 14:04	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/25/23 14:04	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/25/23 14:04	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/25/23 14:04	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/25/23 14:04	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/25/23 14:04	1
Acetone	3.7	U	10	3.7	ug/L			10/25/23 14:04	1
Benzene	0.27	U	1.0	0.27	ug/L			10/25/23 14:04	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/25/23 14:04	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/25/23 14:04	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/25/23 14:04	1
Carbon disulfide	**1.1**	**I**	2.0	0.43	ug/L			10/25/23 14:04	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/25/23 14:04	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/25/23 14:04	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/25/23 14:04	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/25/23 14:04	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/25/23 14:04	1

Client Sample ID: LC34-DPT1000-038.0-20231018
Lab Sample ID: 670-28953-7

Date Collected: 10/18/23 15:50
Matrix: Water
Date Received: 10/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**0.29**	**I**	1.0	0.25	ug/L			10/25/23 14:04	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/25/23 14:04	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/25/23 14:04	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/25/23 14:04	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/25/23 14:04	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/25/23 14:04	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/25/23 14:04	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/25/23 14:04	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/25/23 14:04	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/25/23 14:04	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/25/23 14:04	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/25/23 14:04	1
Styrene	0.27	U	1.0	0.27	ug/L			10/25/23 14:04	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/25/23 14:04	1
Toluene	0.25	U	1.0	0.25	ug/L			10/25/23 14:04	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/25/23 14:04	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/25/23 14:04	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/25/23 14:04	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/25/23 14:04	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/25/23 14:04	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/25/23 14:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*		*10/25/23 14:04*	*1*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*		*10/25/23 14:04*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*10/25/23 14:04*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/25/23 14:04*	*1*

Client Sample ID: LC34-DPT1000-032.0-20231018
Lab Sample ID: 670-28953-8

Date Collected: 10/18/23 16:05
Matrix: Water
Date Received: 10/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/25/23 14:25	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/25/23 14:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/25/23 14:25	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/25/23 14:25	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/25/23 14:25	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/25/23 14:25	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/25/23 14:25	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/25/23 14:25	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/25/23 14:25	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/25/23 14:25	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/25/23 14:25	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/25/23 14:25	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/25/23 14:25	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/25/23 14:25	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/25/23 14:25	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/25/23 14:25	1

Client Sample ID: LC34-DPT1000-032.0-20231018
Lab Sample ID: 670-28953-8

Date Collected: 10/18/23 16:05
Matrix: Water
Date Received: 10/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/25/23 14:25	1
Acetone	3.7	U	10	3.7	ug/L			10/25/23 14:25	1
Benzene	0.27	U	1.0	0.27	ug/L			10/25/23 14:25	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/25/23 14:25	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/25/23 14:25	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/25/23 14:25	1
Carbon disulfide	**1.3**	**I**	2.0	0.43	ug/L			10/25/23 14:25	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/25/23 14:25	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/25/23 14:25	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/25/23 14:25	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/25/23 14:25	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/25/23 14:25	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/25/23 14:25	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/25/23 14:25	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/25/23 14:25	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/25/23 14:25	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/25/23 14:25	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/25/23 14:25	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/25/23 14:25	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/25/23 14:25	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/25/23 14:25	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/25/23 14:25	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/25/23 14:25	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/25/23 14:25	1
Styrene	0.27	U	1.0	0.27	ug/L			10/25/23 14:25	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/25/23 14:25	1
Toluene	0.25	U	1.0	0.25	ug/L			10/25/23 14:25	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/25/23 14:25	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/25/23 14:25	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/25/23 14:25	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/25/23 14:25	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/25/23 14:25	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/25/23 14:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*		*10/25/23 14:25*	*1*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*		*10/25/23 14:25*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*10/25/23 14:25*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*10/25/23 14:25*	*1*

Client Sample ID: LC34-DPT1000-025.0-20231018
Lab Sample ID: 670-28953-9

Date Collected: 10/18/23 16:20
Matrix: Water
Date Received: 10/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.42	U	2.0	0.42	ug/L			10/25/23 15:30	2
1,1,2,2-Tetrachloroethane	0.80	U	2.0	0.80	ug/L			10/25/23 15:30	2
1,1,2-Trichloro-1,2,2-trifluoroethane	0.46	U	2.0	0.46	ug/L			10/25/23 15:30	2
1,1,2-Trichloroethane	0.64	U	2.0	0.64	ug/L			10/25/23 15:30	2

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28953-1

Client Sample ID: LC34-DPT1000-025.0-20231018
Date Collected: 10/18/23 16:20
Date Received: 10/20/23 08:00

Lab Sample ID: 670-28953-9
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	0.66	U	2.0	0.66	ug/L			10/25/23 15:30	2
1,1-Dichloroethene	0.66	U	2.0	0.66	ug/L			10/25/23 15:30	2
1,2,4-Trichlorobenzene	1.1	U	10	1.1	ug/L			10/25/23 15:30	2
1,2-Dibromo-3-Chloropropane	3.6	U	10	3.6	ug/L			10/25/23 15:30	2
1,2-Dibromoethane (EDB)	0.66	U	2.0	0.66	ug/L			10/25/23 15:30	2
1,2-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/25/23 15:30	2
1,2-Dichloroethane	0.50	U	2.0	0.50	ug/L			10/25/23 15:30	2
1,2-Dichloropropane	0.44	U	2.0	0.44	ug/L			10/25/23 15:30	2
1,3-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/25/23 15:30	2
1,4-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/25/23 15:30	2
2-Butanone (MEK)	13	U	20	13	ug/L			10/25/23 15:30	2
2-Hexanone	6.4	U	20	6.4	ug/L			10/25/23 15:30	2
4-Methyl-2-pentanone	5.4	U	20	5.4	ug/L			10/25/23 15:30	2
Acetone	7.4	U	20	7.4	ug/L			10/25/23 15:30	2
Benzene	0.54	U	2.0	0.54	ug/L			10/25/23 15:30	2
Bromodichloromethane	0.50	U	2.0	0.50	ug/L			10/25/23 15:30	2
Bromoform	1.2	U	2.0	1.2	ug/L			10/25/23 15:30	2
Bromomethane	7.4	U	10	7.4	ug/L			10/25/23 15:30	2
Carbon disulfide	0.86	U	4.0	0.86	ug/L			10/25/23 15:30	2
Carbon tetrachloride	0.60	U	2.0	0.60	ug/L			10/25/23 15:30	2
Chlorobenzene	0.30	U	2.0	0.30	ug/L			10/25/23 15:30	2
Chloroethane	9.2	U	10	9.2	ug/L			10/25/23 15:30	2
Chloroform	0.54	U	2.0	0.54	ug/L			10/25/23 15:30	2
Chloromethane	1.1	U	2.0	1.1	ug/L			10/25/23 15:30	2
cis-1,3-Dichloropropene	0.52	U	2.0	0.52	ug/L			10/25/23 15:30	2
Cyclohexane	0.56	U	2.0	0.56	ug/L			10/25/23 15:30	2
Dibromochloromethane	0.78	U	2.0	0.78	ug/L			10/25/23 15:30	2
Dichlorodifluoromethane	0.72	U	2.0	0.72	ug/L			10/25/23 15:30	2
Ethylbenzene	0.40	U	2.0	0.40	ug/L			10/25/23 15:30	2
Isopropylbenzene	0.52	U	2.0	0.52	ug/L			10/25/23 15:30	2
m,p-Xylenes	0.98	U	2.0	0.98	ug/L			10/25/23 15:30	2
Methyl acetate	6.4	U	10	6.4	ug/L			10/25/23 15:30	2
Methyl tert-butyl ether	1.6	U	10	1.6	ug/L			10/25/23 15:30	2
Methylene Chloride	6.4	U	10	6.4	ug/L			10/25/23 15:30	2
o-Xylene	0.52	U	2.0	0.52	ug/L			10/25/23 15:30	2
Styrene	0.54	U	2.0	0.54	ug/L			10/25/23 15:30	2
Tetrachloroethene	0.70	U	2.0	0.70	ug/L			10/25/23 15:30	2
Toluene	0.50	U	2.0	0.50	ug/L			10/25/23 15:30	2
trans-1,2-Dichloroethene	0.68	U	2.0	0.68	ug/L			10/25/23 15:30	2
trans-1,3-Dichloropropene	0.46	U	2.0	0.46	ug/L			10/25/23 15:30	2
Trichloroethene	0.40	U	2.0	0.40	ug/L			10/25/23 15:30	2
Trichlorofluoromethane	0.66	U	2.0	0.66	ug/L			10/25/23 15:30	2
Vinyl chloride	**170**		2.0	0.80	ug/L			10/25/23 15:30	2
Xylenes, Total	0.46	U	2.0	0.46	ug/L			10/25/23 15:30	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*60 - 124*		*10/25/23 15:30*	*2*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*		*10/25/23 15:30*	*2*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*10/25/23 15:30*	*2*
Toluene-d8 (Surr)	*99*		*70 - 130*		*10/25/23 15:30*	*2*

Client Sample ID: LC34-DPT1000-025.0-20231018
Lab Sample ID: 670-28953-9

Date Collected: 10/18/23 16:20
Matrix: Water
Date Received: 10/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	440		5.0	1.3	ug/L			10/25/23 16:35	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*		*10/25/23 16:35*	*5*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*10/25/23 16:35*	*5*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*10/25/23 16:35*	*5*
Toluene-d8 (Surr)	*99*		*70 - 130*		*10/25/23 16:35*	*5*

Client Sample ID: LC34-DPT1000-018.0-20231018
Lab Sample ID: 670-28953-10

Date Collected: 10/18/23 16:35
Matrix: Water
Date Received: 10/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	5.0	1.1	ug/L			10/25/23 15:52	5
1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	ug/L			10/25/23 15:52	5
1,1,2-Trichloro-1,2,2-trifluoroethane	1.2	U	5.0	1.2	ug/L			10/25/23 15:52	5
1,1,2-Trichloroethane	1.6	U	5.0	1.6	ug/L			10/25/23 15:52	5
1,1-Dichloroethane	1.7	U	5.0	1.7	ug/L			10/25/23 15:52	5
1,1-Dichloroethene	1.7	U	5.0	1.7	ug/L			10/25/23 15:52	5
1,2,4-Trichlorobenzene	2.7	U	25	2.7	ug/L			10/25/23 15:52	5
1,2-Dibromo-3-Chloropropane	9.0	U	25	9.0	ug/L			10/25/23 15:52	5
1,2-Dibromoethane (EDB)	1.7	U	5.0	1.7	ug/L			10/25/23 15:52	5
1,2-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/25/23 15:52	5
1,2-Dichloroethane	1.3	U	5.0	1.3	ug/L			10/25/23 15:52	5
1,2-Dichloropropane	1.1	U	5.0	1.1	ug/L			10/25/23 15:52	5
1,3-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/25/23 15:52	5
1,4-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/25/23 15:52	5
2-Butanone (MEK)	32	U	50	32	ug/L			10/25/23 15:52	5
2-Hexanone	16	U	50	16	ug/L			10/25/23 15:52	5
4-Methyl-2-pentanone	14	U	50	14	ug/L			10/25/23 15:52	5
Acetone	19	U	50	19	ug/L			10/25/23 15:52	5
Benzene	1.4	U	5.0	1.4	ug/L			10/25/23 15:52	5
Bromodichloromethane	1.3	U	5.0	1.3	ug/L			10/25/23 15:52	5
Bromoform	3.0	U	5.0	3.0	ug/L			10/25/23 15:52	5
Bromomethane	19	U	25	19	ug/L			10/25/23 15:52	5
Carbon disulfide	2.2	U	10	2.2	ug/L			10/25/23 15:52	5
Carbon tetrachloride	1.5	U	5.0	1.5	ug/L			10/25/23 15:52	5
Chlorobenzene	0.75	U	5.0	0.75	ug/L			10/25/23 15:52	5
Chloroethane	23	U	25	23	ug/L			10/25/23 15:52	5
Chloroform	1.4	U	5.0	1.4	ug/L			10/25/23 15:52	5
Chloromethane	2.7	U	5.0	2.7	ug/L			10/25/23 15:52	5
cis-1,2-Dichloroethene	380		5.0	1.3	ug/L			10/25/23 15:52	5
cis-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			10/25/23 15:52	5
Cyclohexane	1.4	U	5.0	1.4	ug/L			10/25/23 15:52	5
Dibromochloromethane	2.0	U	5.0	2.0	ug/L			10/25/23 15:52	5
Dichlorodifluoromethane	1.8	U	5.0	1.8	ug/L			10/25/23 15:52	5
Ethylbenzene	1.0	U	5.0	1.0	ug/L			10/25/23 15:52	5
Isopropylbenzene	1.3	U	5.0	1.3	ug/L			10/25/23 15:52	5
m,p-Xylenes	2.5	U	5.0	2.5	ug/L			10/25/23 15:52	5

Client Sample ID: LC34-DPT1000-018.0-20231018
Lab Sample ID: 670-28953-10

Date Collected: 10/18/23 16:35
Matrix: Water
Date Received: 10/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl acetate	16	U	25	16	ug/L			10/25/23 15:52	5
Methyl tert-butyl ether	4.1	U	25	4.1	ug/L			10/25/23 15:52	5
Methylene Chloride	16	U	25	16	ug/L			10/25/23 15:52	5
o-Xylene	1.3	U	5.0	1.3	ug/L			10/25/23 15:52	5
Styrene	1.4	U	5.0	1.4	ug/L			10/25/23 15:52	5
Tetrachloroethene	1.8	U	5.0	1.8	ug/L			10/25/23 15:52	5
Toluene	1.3	U	5.0	1.3	ug/L			10/25/23 15:52	5
trans-1,2-Dichloroethene	1.7	U	5.0	1.7	ug/L			10/25/23 15:52	5
trans-1,3-Dichloropropene	1.2	U	5.0	1.2	ug/L			10/25/23 15:52	5
Trichloroethene	1.0	U	5.0	1.0	ug/L			10/25/23 15:52	5
Trichlorofluoromethane	1.7	U	5.0	1.7	ug/L			10/25/23 15:52	5
Vinyl chloride	**730**		5.0	2.0	ug/L			10/25/23 15:52	5
Xylenes, Total	1.2	U	5.0	1.2	ug/L			10/25/23 15:52	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*		*10/25/23 15:52*	*5*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*		*10/25/23 15:52*	*5*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*10/25/23 15:52*	*5*
Toluene-d8 (Surr)	*98*		*70 - 130*		*10/25/23 15:52*	*5*

Client Sample ID: LC34-DPT1000-013.0-20231018
Lab Sample ID: 670-28953-11

Date Collected: 10/18/23 16:50
Matrix: Water
Date Received: 10/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/25/23 14:47	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/25/23 14:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/25/23 14:47	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/25/23 14:47	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/25/23 14:47	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/25/23 14:47	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/25/23 14:47	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/25/23 14:47	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/25/23 14:47	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/25/23 14:47	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/25/23 14:47	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/25/23 14:47	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/25/23 14:47	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/25/23 14:47	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/25/23 14:47	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/25/23 14:47	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/25/23 14:47	1
Acetone	3.7	U	10	3.7	ug/L			10/25/23 14:47	1
Benzene	0.27	U	1.0	0.27	ug/L			10/25/23 14:47	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/25/23 14:47	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/25/23 14:47	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/25/23 14:47	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/25/23 14:47	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/25/23 14:47	1

Client Sample ID: LC34-DPT1000-013.0-20231018
Lab Sample ID: 670-28953-11

Date Collected: 10/18/23 16:50
Matrix: Water
Date Received: 10/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/25/23 14:47	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/25/23 14:47	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/25/23 14:47	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/25/23 14:47	1
cis-1,2-Dichloroethene	**6.5**		1.0	0.25	ug/L			10/25/23 14:47	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/25/23 14:47	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/25/23 14:47	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/25/23 14:47	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/25/23 14:47	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/25/23 14:47	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/25/23 14:47	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/25/23 14:47	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/25/23 14:47	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/25/23 14:47	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/25/23 14:47	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/25/23 14:47	1
Styrene	0.27	U	1.0	0.27	ug/L			10/25/23 14:47	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/25/23 14:47	1
Toluene	0.25	U	1.0	0.25	ug/L			10/25/23 14:47	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/25/23 14:47	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/25/23 14:47	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/25/23 14:47	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/25/23 14:47	1
Vinyl chloride	**17**		1.0	0.40	ug/L			10/25/23 14:47	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/25/23 14:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*60 - 124*		*10/25/23 14:47*	*1*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*10/25/23 14:47*	*1*
Dibromofluoromethane (Surr)	*95*		*70 - 130*		*10/25/23 14:47*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*10/25/23 14:47*	*1*

Client Sample ID: LC34-DPT1000-008.0-20231018
Lab Sample ID: 670-28953-12

Date Collected: 10/18/23 17:05
Matrix: Water
Date Received: 10/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/25/23 15:09	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/25/23 15:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/25/23 15:09	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/25/23 15:09	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/25/23 15:09	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/25/23 15:09	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/25/23 15:09	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/25/23 15:09	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/25/23 15:09	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/25/23 15:09	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/25/23 15:09	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/25/23 15:09	1

Client Sample ID: LC34-DPT1000-008.0-20231018
Lab Sample ID: 670-28953-12
Date Collected: 10/18/23 17:05
Matrix: Water
Date Received: 10/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/25/23 15:09	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/25/23 15:09	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/25/23 15:09	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/25/23 15:09	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/25/23 15:09	1
Acetone	3.7	U	10	3.7	ug/L			10/25/23 15:09	1
Benzene	0.27	U	1.0	0.27	ug/L			10/25/23 15:09	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/25/23 15:09	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/25/23 15:09	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/25/23 15:09	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/25/23 15:09	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/25/23 15:09	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/25/23 15:09	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/25/23 15:09	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/25/23 15:09	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/25/23 15:09	1
cis-1,2-Dichloroethene	**2.5**		1.0	0.25	ug/L			10/25/23 15:09	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/25/23 15:09	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/25/23 15:09	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/25/23 15:09	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/25/23 15:09	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/25/23 15:09	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/25/23 15:09	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/25/23 15:09	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/25/23 15:09	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/25/23 15:09	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/25/23 15:09	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/25/23 15:09	1
Styrene	0.27	U	1.0	0.27	ug/L			10/25/23 15:09	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/25/23 15:09	1
Toluene	0.25	U	1.0	0.25	ug/L			10/25/23 15:09	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/25/23 15:09	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/25/23 15:09	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/25/23 15:09	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/25/23 15:09	1
Vinyl chloride	**4.9**		1.0	0.40	ug/L			10/25/23 15:09	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/25/23 15:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*		*10/25/23 15:09*	*1*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*		*10/25/23 15:09*	*1*
Dibromofluoromethane (Surr)	*95*		*70 - 130*		*10/25/23 15:09*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*10/25/23 15:09*	*1*

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28953-1

Client Sample ID: LC34-DPT1001-038.0-20231018
Date Collected: 10/19/23 08:05
Date Received: 10/20/23 08:00

Lab Sample ID: 670-28953-13
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/25/23 21:47	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/25/23 21:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/25/23 21:47	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/25/23 21:47	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/25/23 21:47	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/25/23 21:47	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/25/23 21:47	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/25/23 21:47	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/25/23 21:47	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/25/23 21:47	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/25/23 21:47	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/25/23 21:47	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/25/23 21:47	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/25/23 21:47	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/25/23 21:47	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/25/23 21:47	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/25/23 21:47	1
Acetone	3.7	U	10	3.7	ug/L			10/25/23 21:47	1
Benzene	0.27	U	1.0	0.27	ug/L			10/25/23 21:47	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/25/23 21:47	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/25/23 21:47	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/25/23 21:47	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/25/23 21:47	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/25/23 21:47	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/25/23 21:47	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/25/23 21:47	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/25/23 21:47	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/25/23 21:47	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/25/23 21:47	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/25/23 21:47	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/25/23 21:47	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/25/23 21:47	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/25/23 21:47	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/25/23 21:47	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/25/23 21:47	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/25/23 21:47	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/25/23 21:47	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/25/23 21:47	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/25/23 21:47	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/25/23 21:47	1
Styrene	0.27	U	1.0	0.27	ug/L			10/25/23 21:47	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/25/23 21:47	1
Toluene	0.25	U	1.0	0.25	ug/L			10/25/23 21:47	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/25/23 21:47	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/25/23 21:47	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/25/23 21:47	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/25/23 21:47	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/25/23 21:47	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/25/23 21:47	1

Client Sample ID: LC34-DPT1001-038.0-20231018
Lab Sample ID: 670-28953-13

Date Collected: 10/19/23 08:05
Matrix: Water
Date Received: 10/20/23 08:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*78*		*60 - 124*		*10/25/23 21:47*	*1*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*10/25/23 21:47*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*10/25/23 21:47*	*1*
Toluene-d8 (Surr)	*107*		*70 - 130*		*10/25/23 21:47*	*1*

Client Sample ID: LC34-DPT1001-032.0-20231019
Lab Sample ID: 670-28953-14

Date Collected: 10/19/23 08:20
Matrix: Water
Date Received: 10/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/25/23 22:06	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/25/23 22:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/25/23 22:06	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/25/23 22:06	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/25/23 22:06	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/25/23 22:06	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/25/23 22:06	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/25/23 22:06	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/25/23 22:06	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/25/23 22:06	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/25/23 22:06	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/25/23 22:06	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/25/23 22:06	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/25/23 22:06	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/25/23 22:06	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/25/23 22:06	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/25/23 22:06	1
Acetone	3.7	U	10	3.7	ug/L			10/25/23 22:06	1
Benzene	0.27	U	1.0	0.27	ug/L			10/25/23 22:06	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/25/23 22:06	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/25/23 22:06	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/25/23 22:06	1
Carbon disulfide	**0.64**	**I**	2.0	0.43	ug/L			10/25/23 22:06	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/25/23 22:06	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/25/23 22:06	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/25/23 22:06	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/25/23 22:06	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/25/23 22:06	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/25/23 22:06	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/25/23 22:06	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/25/23 22:06	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/25/23 22:06	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/25/23 22:06	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/25/23 22:06	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/25/23 22:06	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/25/23 22:06	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/25/23 22:06	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/25/23 22:06	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/25/23 22:06	1

Client Sample ID: LC34-DPT1001-032.0-20231019
Lab Sample ID: 670-28953-14

Date Collected: 10/19/23 08:20
Matrix: Water
Date Received: 10/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	0.26	U	1.0	0.26	ug/L			10/25/23 22:06	1
Styrene	0.27	U	1.0	0.27	ug/L			10/25/23 22:06	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/25/23 22:06	1
Toluene	0.25	U	1.0	0.25	ug/L			10/25/23 22:06	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/25/23 22:06	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/25/23 22:06	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/25/23 22:06	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/25/23 22:06	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/25/23 22:06	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/25/23 22:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*80*		*60 - 124*		*10/25/23 22:06*	*1*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*10/25/23 22:06*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*10/25/23 22:06*	*1*
Toluene-d8 (Surr)	*105*		*70 - 130*		*10/25/23 22:06*	*1*

Client Sample ID: LC34-DPT1001-025.0-20231019
Lab Sample ID: 670-28953-15

Date Collected: 10/19/23 08:35
Matrix: Water
Date Received: 10/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2.1	U	10	2.1	ug/L			10/26/23 02:33	10
1,1,2,2-Tetrachloroethane	4.0	U	10	4.0	ug/L			10/26/23 02:33	10
1,1,2-Trichloro-1,2,2-trifluoroethane	2.3	U	10	2.3	ug/L			10/26/23 02:33	10
1,1,2-Trichloroethane	3.2	U	10	3.2	ug/L			10/26/23 02:33	10
1,1-Dichloroethane	3.3	U	10	3.3	ug/L			10/26/23 02:33	10
1,1-Dichloroethene	3.3	U	10	3.3	ug/L			10/26/23 02:33	10
1,2,4-Trichlorobenzene	5.3	U	50	5.3	ug/L			10/26/23 02:33	10
1,2-Dibromo-3-Chloropropane	18	U	50	18	ug/L			10/26/23 02:33	10
1,2-Dibromoethane (EDB)	3.3	U	10	3.3	ug/L			10/26/23 02:33	10
1,2-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/26/23 02:33	10
1,2-Dichloroethane	2.5	U	10	2.5	ug/L			10/26/23 02:33	10
1,2-Dichloropropane	2.2	U	10	2.2	ug/L			10/26/23 02:33	10
1,3-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/26/23 02:33	10
1,4-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/26/23 02:33	10
2-Butanone (MEK)	64	U	100	64	ug/L			10/26/23 02:33	10
2-Hexanone	32	U	100	32	ug/L			10/26/23 02:33	10
4-Methyl-2-pentanone	27	U	100	27	ug/L			10/26/23 02:33	10
Acetone	**84**	**I**	100	37	ug/L			10/26/23 02:33	10
Benzene	2.7	U	10	2.7	ug/L			10/26/23 02:33	10
Bromodichloromethane	2.5	U	10	2.5	ug/L			10/26/23 02:33	10
Bromoform	5.9	U	10	5.9	ug/L			10/26/23 02:33	10
Bromomethane	37	U	50	37	ug/L			10/26/23 02:33	10
Carbon disulfide	4.3	U	20	4.3	ug/L			10/26/23 02:33	10
Carbon tetrachloride	3.0	U	10	3.0	ug/L			10/26/23 02:33	10
Chlorobenzene	1.5	U	10	1.5	ug/L			10/26/23 02:33	10
Chloroethane	46	U	50	46	ug/L			10/26/23 02:33	10
Chloroform	2.7	U	10	2.7	ug/L			10/26/23 02:33	10

Client Sample ID: LC34-DPT1001-025.0-20231019
Lab Sample ID: 670-28953-15

Date Collected: 10/19/23 08:35
Matrix: Water
Date Received: 10/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	5.4	U	10	5.4	ug/L			10/26/23 02:33	10
cis-1,2-Dichloroethene	**1600**		10	2.5	ug/L			10/26/23 02:33	10
cis-1,3-Dichloropropene	2.6	U	10	2.6	ug/L			10/26/23 02:33	10
Cyclohexane	2.8	U	10	2.8	ug/L			10/26/23 02:33	10
Dibromochloromethane	3.9	U	10	3.9	ug/L			10/26/23 02:33	10
Dichlorodifluoromethane	3.6	U	10	3.6	ug/L			10/26/23 02:33	10
Ethylbenzene	2.0	U	10	2.0	ug/L			10/26/23 02:33	10
Isopropylbenzene	2.6	U	10	2.6	ug/L			10/26/23 02:33	10
m,p-Xylenes	4.9	U	10	4.9	ug/L			10/26/23 02:33	10
Methyl acetate	32	U	50	32	ug/L			10/26/23 02:33	10
Methyl tert-butyl ether	8.1	U	50	8.1	ug/L			10/26/23 02:33	10
Methylene Chloride	32	U	50	32	ug/L			10/26/23 02:33	10
o-Xylene	2.6	U	10	2.6	ug/L			10/26/23 02:33	10
Styrene	2.7	U	10	2.7	ug/L			10/26/23 02:33	10
Tetrachloroethene	3.5	U	10	3.5	ug/L			10/26/23 02:33	10
Toluene	2.5	U	10	2.5	ug/L			10/26/23 02:33	10
trans-1,2-Dichloroethene	3.4	U	10	3.4	ug/L			10/26/23 02:33	10
trans-1,3-Dichloropropene	2.3	U	10	2.3	ug/L			10/26/23 02:33	10
Trichloroethene	2.0	U	10	2.0	ug/L			10/26/23 02:33	10
Trichlorofluoromethane	3.3	U	10	3.3	ug/L			10/26/23 02:33	10
Vinyl chloride	**770**		10	4.0	ug/L			10/26/23 02:33	10
Xylenes, Total	2.3	U	10	2.3	ug/L			10/26/23 02:33	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*80*		*60 - 124*		*10/26/23 02:33*	*10*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*10/26/23 02:33*	*10*
Dibromofluoromethane (Surr)	*108*		*70 - 130*		*10/26/23 02:33*	*10*
Toluene-d8 (Surr)	*107*		*70 - 130*		*10/26/23 02:33*	*10*

Client Sample ID: LC34-DPT1001-018.0-20231019
Lab Sample ID: 670-28953-16

Date Collected: 10/19/23 08:50
Matrix: Water
Date Received: 10/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/25/23 22:25	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/25/23 22:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/25/23 22:25	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/25/23 22:25	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/25/23 22:25	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/25/23 22:25	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/25/23 22:25	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/25/23 22:25	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/25/23 22:25	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/25/23 22:25	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/25/23 22:25	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/25/23 22:25	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/25/23 22:25	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/25/23 22:25	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/25/23 22:25	1

Client Sample ID: LC34-DPT1001-018.0-20231019
Lab Sample ID: 670-28953-16

Date Collected: 10/19/23 08:50
Matrix: Water
Date Received: 10/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	3.2	U	10	3.2	ug/L			10/25/23 22:25	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/25/23 22:25	1
Acetone	3.7	U	10	3.7	ug/L			10/25/23 22:25	1
Benzene	0.27	U	1.0	0.27	ug/L			10/25/23 22:25	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/25/23 22:25	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/25/23 22:25	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/25/23 22:25	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/25/23 22:25	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/25/23 22:25	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/25/23 22:25	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/25/23 22:25	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/25/23 22:25	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/25/23 22:25	1
cis-1,2-Dichloroethene	**55**		1.0	0.25	ug/L			10/25/23 22:25	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/25/23 22:25	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/25/23 22:25	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/25/23 22:25	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/25/23 22:25	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/25/23 22:25	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/25/23 22:25	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/25/23 22:25	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/25/23 22:25	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/25/23 22:25	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/25/23 22:25	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/25/23 22:25	1
Styrene	0.27	U	1.0	0.27	ug/L			10/25/23 22:25	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/25/23 22:25	1
Toluene	0.25	U	1.0	0.25	ug/L			10/25/23 22:25	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/25/23 22:25	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/25/23 22:25	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/25/23 22:25	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/25/23 22:25	1
Vinyl chloride	**140**		1.0	0.40	ug/L			10/25/23 22:25	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/25/23 22:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*81*		*60 - 124*		*10/25/23 22:25*	*1*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*		*10/25/23 22:25*	*1*
Dibromofluoromethane (Surr)	*108*		*70 - 130*		*10/25/23 22:25*	*1*
Toluene-d8 (Surr)	*105*		*70 - 130*		*10/25/23 22:25*	*1*

Client Sample ID: LC34-DPT1001-013.0-20231019
Lab Sample ID: 670-28953-17

Date Collected: 10/19/23 09:05
Matrix: Water
Date Received: 10/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/25/23 22:44	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/25/23 22:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/25/23 22:44	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28953-1

Client Sample ID: LC34-DPT1001-013.0-20231019
Date Collected: 10/19/23 09:05
Date Received: 10/20/23 08:00

Lab Sample ID: 670-28953-17
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/25/23 22:44	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/25/23 22:44	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/25/23 22:44	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/25/23 22:44	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/25/23 22:44	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/25/23 22:44	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/25/23 22:44	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/25/23 22:44	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/25/23 22:44	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/25/23 22:44	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/25/23 22:44	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/25/23 22:44	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/25/23 22:44	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/25/23 22:44	1
Acetone	3.7	U	10	3.7	ug/L			10/25/23 22:44	1
Benzene	0.27	U	1.0	0.27	ug/L			10/25/23 22:44	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/25/23 22:44	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/25/23 22:44	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/25/23 22:44	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/25/23 22:44	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/25/23 22:44	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/25/23 22:44	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/25/23 22:44	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/25/23 22:44	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/25/23 22:44	1
cis-1,2-Dichloroethene	**6.7**		1.0	0.25	ug/L			10/25/23 22:44	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/25/23 22:44	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/25/23 22:44	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/25/23 22:44	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/25/23 22:44	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/25/23 22:44	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/25/23 22:44	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/25/23 22:44	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/25/23 22:44	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/25/23 22:44	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/25/23 22:44	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/25/23 22:44	1
Styrene	0.27	U	1.0	0.27	ug/L			10/25/23 22:44	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/25/23 22:44	1
Toluene	0.25	U	1.0	0.25	ug/L			10/25/23 22:44	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/25/23 22:44	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/25/23 22:44	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/25/23 22:44	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/25/23 22:44	1
Vinyl chloride	**5.2**		1.0	0.40	ug/L			10/25/23 22:44	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/25/23 22:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*84*		*60 - 124*		*10/25/23 22:44*	*1*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*		*10/25/23 22:44*	*1*

Client Sample ID: LC34-DPT1001-013.0-20231019

Lab Sample ID: 670-28953-17

Date Collected: 10/19/23 09:05

Matrix: Water

Date Received: 10/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*10/25/23 22:44*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*10/25/23 22:44*	*1*

Client Sample ID: LC34-DPT1001-008.0-20231019

Lab Sample ID: 670-28953-18

Date Collected: 10/19/23 09:20

Matrix: Water

Date Received: 10/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/25/23 23:03	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/25/23 23:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/25/23 23:03	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/25/23 23:03	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/25/23 23:03	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/25/23 23:03	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/25/23 23:03	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/25/23 23:03	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/25/23 23:03	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/25/23 23:03	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/25/23 23:03	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/25/23 23:03	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/25/23 23:03	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/25/23 23:03	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/25/23 23:03	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/25/23 23:03	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/25/23 23:03	1
Acetone	3.7	U	10	3.7	ug/L			10/25/23 23:03	1
Benzene	0.27	U	1.0	0.27	ug/L			10/25/23 23:03	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/25/23 23:03	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/25/23 23:03	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/25/23 23:03	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/25/23 23:03	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/25/23 23:03	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/25/23 23:03	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/25/23 23:03	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/25/23 23:03	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/25/23 23:03	1
cis-1,2-Dichloroethene	**4.6**		1.0	0.25	ug/L			10/25/23 23:03	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/25/23 23:03	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/25/23 23:03	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/25/23 23:03	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/25/23 23:03	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/25/23 23:03	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/25/23 23:03	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/25/23 23:03	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/25/23 23:03	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/25/23 23:03	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/25/23 23:03	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/25/23 23:03	1

Client Sample ID: LC34-DPT1001-008.0-20231019

Lab Sample ID: 670-28953-18

Date Collected: 10/19/23 09:20

Matrix: Water

Date Received: 10/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.27	U	1.0	0.27	ug/L			10/25/23 23:03	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/25/23 23:03	1
Toluene	0.25	U	1.0	0.25	ug/L			10/25/23 23:03	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/25/23 23:03	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/25/23 23:03	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/25/23 23:03	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/25/23 23:03	1
Vinyl chloride	**3.2**		1.0	0.40	ug/L			10/25/23 23:03	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/25/23 23:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*80*		*60 - 124*		*10/25/23 23:03*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*10/25/23 23:03*	*1*
Dibromofluoromethane (Surr)	*105*		*70 - 130*		*10/25/23 23:03*	*1*
Toluene-d8 (Surr)	*107*		*70 - 130*		*10/25/23 23:03*	*1*

Client Sample ID: LC34-DPT1002-038.0-20231019

Lab Sample ID: 670-28953-19

Date Collected: 10/19/23 10:05

Matrix: Water

Date Received: 10/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/25/23 23:21	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/25/23 23:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/25/23 23:21	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/25/23 23:21	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/25/23 23:21	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/25/23 23:21	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/25/23 23:21	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/25/23 23:21	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/25/23 23:21	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/25/23 23:21	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/25/23 23:21	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/25/23 23:21	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/25/23 23:21	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/25/23 23:21	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/25/23 23:21	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/25/23 23:21	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/25/23 23:21	1
Acetone	3.7	U	10	3.7	ug/L			10/25/23 23:21	1
Benzene	0.27	U	1.0	0.27	ug/L			10/25/23 23:21	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/25/23 23:21	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/25/23 23:21	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/25/23 23:21	1
Carbon disulfide	**0.53**	**I**	2.0	0.43	ug/L			10/25/23 23:21	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/25/23 23:21	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/25/23 23:21	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/25/23 23:21	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/25/23 23:21	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/25/23 23:21	1

Client Sample ID: LC34-DPT1002-038.0-20231019
Lab Sample ID: 670-28953-19

Date Collected: 10/19/23 10:05
Matrix: Water
Date Received: 10/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/25/23 23:21	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/25/23 23:21	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/25/23 23:21	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/25/23 23:21	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/25/23 23:21	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/25/23 23:21	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/25/23 23:21	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/25/23 23:21	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/25/23 23:21	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/25/23 23:21	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/25/23 23:21	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/25/23 23:21	1
Styrene	0.27	U	1.0	0.27	ug/L			10/25/23 23:21	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/25/23 23:21	1
Toluene	0.25	U	1.0	0.25	ug/L			10/25/23 23:21	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/25/23 23:21	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/25/23 23:21	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/25/23 23:21	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/25/23 23:21	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/25/23 23:21	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/25/23 23:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*80*		*60 - 124*		*10/25/23 23:21*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/25/23 23:21*	*1*
Dibromofluoromethane (Surr)	*106*		*70 - 130*		*10/25/23 23:21*	*1*
Toluene-d8 (Surr)	*106*		*70 - 130*		*10/25/23 23:21*	*1*

Client Sample ID: LC34-DPT1002-032.0-20231019
Lab Sample ID: 670-28953-20

Date Collected: 10/19/23 10:20
Matrix: Water
Date Received: 10/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/25/23 23:40	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/25/23 23:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/25/23 23:40	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/25/23 23:40	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/25/23 23:40	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/25/23 23:40	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/25/23 23:40	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/25/23 23:40	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/25/23 23:40	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/25/23 23:40	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/25/23 23:40	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/25/23 23:40	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/25/23 23:40	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/25/23 23:40	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/25/23 23:40	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/25/23 23:40	1

Client Sample ID: LC34-DPT1002-032.0-20231019
Lab Sample ID: 670-28953-20

Date Collected: 10/19/23 10:20
Matrix: Water
Date Received: 10/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/25/23 23:40	1
Acetone	3.7	U	10	3.7	ug/L			10/25/23 23:40	1
Benzene	0.27	U	1.0	0.27	ug/L			10/25/23 23:40	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/25/23 23:40	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/25/23 23:40	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/25/23 23:40	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/25/23 23:40	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/25/23 23:40	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/25/23 23:40	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/25/23 23:40	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/25/23 23:40	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/25/23 23:40	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/25/23 23:40	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/25/23 23:40	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/25/23 23:40	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/25/23 23:40	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/25/23 23:40	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/25/23 23:40	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/25/23 23:40	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/25/23 23:40	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/25/23 23:40	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/25/23 23:40	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/25/23 23:40	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/25/23 23:40	1
Styrene	0.27	U	1.0	0.27	ug/L			10/25/23 23:40	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/25/23 23:40	1
Toluene	0.25	U	1.0	0.25	ug/L			10/25/23 23:40	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/25/23 23:40	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/25/23 23:40	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/25/23 23:40	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/25/23 23:40	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/25/23 23:40	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/25/23 23:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*80*		*60 - 124*		*10/25/23 23:40*	*1*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*10/25/23 23:40*	*1*
Dibromofluoromethane (Surr)	*107*		*70 - 130*		*10/25/23 23:40*	*1*
Toluene-d8 (Surr)	*106*		*70 - 130*		*10/25/23 23:40*	*1*

Client Sample ID: LC34-DPT1002-025.0-20231019
Lab Sample ID: 670-28953-21

Date Collected: 10/19/23 10:35
Matrix: Water
Date Received: 10/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2.1	U	10	2.1	ug/L			10/26/23 02:54	10
1,1,2,2-Tetrachloroethane	4.0	U	10	4.0	ug/L			10/26/23 02:54	10
1,1,2-Trichloro-1,2,2-trifluoroethane	2.3	U	10	2.3	ug/L			10/26/23 02:54	10
1,1,2-Trichloroethane	3.2	U	10	3.2	ug/L			10/26/23 02:54	10

Client Sample ID: LC34-DPT1002-025.0-20231019
Date Collected: 10/19/23 10:35
Date Received: 10/20/23 08:00

Lab Sample ID: 670-28953-21
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	3.3	U	10	3.3	ug/L			10/26/23 02:54	10
1,1-Dichloroethene	3.3	U	10	3.3	ug/L			10/26/23 02:54	10
1,2,4-Trichlorobenzene	5.3	U	50	5.3	ug/L			10/26/23 02:54	10
1,2-Dibromo-3-Chloropropane	18	U	50	18	ug/L			10/26/23 02:54	10
1,2-Dibromoethane (EDB)	3.3	U	10	3.3	ug/L			10/26/23 02:54	10
1,2-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/26/23 02:54	10
1,2-Dichloroethane	2.5	U	10	2.5	ug/L			10/26/23 02:54	10
1,2-Dichloropropane	2.2	U	10	2.2	ug/L			10/26/23 02:54	10
1,3-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/26/23 02:54	10
1,4-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/26/23 02:54	10
2-Butanone (MEK)	64	U	100	64	ug/L			10/26/23 02:54	10
2-Hexanone	32	U	100	32	ug/L			10/26/23 02:54	10
4-Methyl-2-pentanone	27	U	100	27	ug/L			10/26/23 02:54	10
Acetone	**110**		100	37	ug/L			10/26/23 02:54	10
Benzene	2.7	U	10	2.7	ug/L			10/26/23 02:54	10
Bromodichloromethane	2.5	U	10	2.5	ug/L			10/26/23 02:54	10
Bromoform	5.9	U	10	5.9	ug/L			10/26/23 02:54	10
Bromomethane	37	U	50	37	ug/L			10/26/23 02:54	10
Carbon disulfide	4.3	U	20	4.3	ug/L			10/26/23 02:54	10
Carbon tetrachloride	3.0	U	10	3.0	ug/L			10/26/23 02:54	10
Chlorobenzene	1.5	U	10	1.5	ug/L			10/26/23 02:54	10
Chloroethane	46	U	50	46	ug/L			10/26/23 02:54	10
Chloroform	2.7	U	10	2.7	ug/L			10/26/23 02:54	10
Chloromethane	5.4	U	10	5.4	ug/L			10/26/23 02:54	10
cis-1,2-Dichloroethene	**750**		10	2.5	ug/L			10/26/23 02:54	10
cis-1,3-Dichloropropene	2.6	U	10	2.6	ug/L			10/26/23 02:54	10
Cyclohexane	2.8	U	10	2.8	ug/L			10/26/23 02:54	10
Dibromochloromethane	3.9	U	10	3.9	ug/L			10/26/23 02:54	10
Dichlorodifluoromethane	3.6	U	10	3.6	ug/L			10/26/23 02:54	10
Ethylbenzene	2.0	U	10	2.0	ug/L			10/26/23 02:54	10
Isopropylbenzene	2.6	U	10	2.6	ug/L			10/26/23 02:54	10
m,p-Xylenes	4.9	U	10	4.9	ug/L			10/26/23 02:54	10
Methyl acetate	32	U	50	32	ug/L			10/26/23 02:54	10
Methyl tert-butyl ether	8.1	U	50	8.1	ug/L			10/26/23 02:54	10
Methylene Chloride	32	U	50	32	ug/L			10/26/23 02:54	10
o-Xylene	2.6	U	10	2.6	ug/L			10/26/23 02:54	10
Styrene	2.7	U	10	2.7	ug/L			10/26/23 02:54	10
Tetrachloroethene	3.5	U	10	3.5	ug/L			10/26/23 02:54	10
Toluene	2.5	U	10	2.5	ug/L			10/26/23 02:54	10
trans-1,2-Dichloroethene	3.4	U	10	3.4	ug/L			10/26/23 02:54	10
trans-1,3-Dichloropropene	2.3	U	10	2.3	ug/L			10/26/23 02:54	10
Trichloroethene	2.0	U	10	2.0	ug/L			10/26/23 02:54	10
Trichlorofluoromethane	3.3	U	10	3.3	ug/L			10/26/23 02:54	10
Vinyl chloride	**810**		10	4.0	ug/L			10/26/23 02:54	10
Xylenes, Total	2.3	U	10	2.3	ug/L			10/26/23 02:54	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*82*		*60 - 124*		*10/26/23 02:54*	*10*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*10/26/23 02:54*	*10*
Dibromofluoromethane (Surr)	*107*		*70 - 130*		*10/26/23 02:54*	*10*

Client Sample ID: LC34-DPT1002-025.0-20231019
Lab Sample ID: 670-28953-21

Date Collected: 10/19/23 10:35
Matrix: Water
Date Received: 10/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	107		70 - 130		10/26/23 02:54	10

Client Sample ID: LC34-DPT1002-018.0-20231019
Lab Sample ID: 670-28953-22

Date Collected: 10/19/23 10:50
Matrix: Water
Date Received: 10/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/25/23 23:59	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/25/23 23:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/25/23 23:59	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/25/23 23:59	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/25/23 23:59	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/25/23 23:59	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/25/23 23:59	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/25/23 23:59	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/25/23 23:59	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/25/23 23:59	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/25/23 23:59	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/25/23 23:59	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/25/23 23:59	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/25/23 23:59	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/25/23 23:59	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/25/23 23:59	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/25/23 23:59	1
Acetone	3.7	U	10	3.7	ug/L			10/25/23 23:59	1
Benzene	0.27	U	1.0	0.27	ug/L			10/25/23 23:59	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/25/23 23:59	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/25/23 23:59	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/25/23 23:59	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/25/23 23:59	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/25/23 23:59	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/25/23 23:59	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/25/23 23:59	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/25/23 23:59	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/25/23 23:59	1
cis-1,2-Dichloroethene	**22**		1.0	0.25	ug/L			10/25/23 23:59	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/25/23 23:59	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/25/23 23:59	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/25/23 23:59	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/25/23 23:59	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/25/23 23:59	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/25/23 23:59	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/25/23 23:59	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/25/23 23:59	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/25/23 23:59	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/25/23 23:59	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/25/23 23:59	1
Styrene	0.27	U	1.0	0.27	ug/L			10/25/23 23:59	1

Client Sample ID: LC34-DPT1002-018.0-20231019
Lab Sample ID: 670-28953-22

Date Collected: 10/19/23 10:50
Matrix: Water
Date Received: 10/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/25/23 23:59	1
Toluene	0.25	U	1.0	0.25	ug/L			10/25/23 23:59	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/25/23 23:59	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/25/23 23:59	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/25/23 23:59	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/25/23 23:59	1
Vinyl chloride	**23**		1.0	0.40	ug/L			10/25/23 23:59	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/25/23 23:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*84*		*60 - 124*		*10/25/23 23:59*	*1*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*		*10/25/23 23:59*	*1*
Dibromofluoromethane (Surr)	*106*		*70 - 130*		*10/25/23 23:59*	*1*
Toluene-d8 (Surr)	*106*		*70 - 130*		*10/25/23 23:59*	*1*

Client Sample ID: LC34-DPT1002-013.0-20231019
Lab Sample ID: 670-28953-23

Date Collected: 10/19/23 11:05
Matrix: Water
Date Received: 10/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/26/23 00:18	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/26/23 00:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/26/23 00:18	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/26/23 00:18	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/26/23 00:18	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/26/23 00:18	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/26/23 00:18	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/26/23 00:18	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/26/23 00:18	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/26/23 00:18	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/26/23 00:18	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/26/23 00:18	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/26/23 00:18	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/26/23 00:18	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/26/23 00:18	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/26/23 00:18	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/26/23 00:18	1
Acetone	3.7	U	10	3.7	ug/L			10/26/23 00:18	1
Benzene	0.27	U	1.0	0.27	ug/L			10/26/23 00:18	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/26/23 00:18	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/26/23 00:18	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/26/23 00:18	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/26/23 00:18	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/26/23 00:18	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/26/23 00:18	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/26/23 00:18	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/26/23 00:18	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/26/23 00:18	1
cis-1,2-Dichloroethene	**1.6**		1.0	0.25	ug/L			10/26/23 00:18	1

Client Sample ID: LC34-DPT1002-013.0-20231019
Lab Sample ID: 670-28953-23

Date Collected: 10/19/23 11:05
Matrix: Water
Date Received: 10/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/26/23 00:18	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/26/23 00:18	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/26/23 00:18	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/26/23 00:18	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/26/23 00:18	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/26/23 00:18	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/26/23 00:18	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/26/23 00:18	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/26/23 00:18	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/26/23 00:18	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/26/23 00:18	1
Styrene	0.27	U	1.0	0.27	ug/L			10/26/23 00:18	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/26/23 00:18	1
Toluene	0.25	U	1.0	0.25	ug/L			10/26/23 00:18	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/26/23 00:18	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/26/23 00:18	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/26/23 00:18	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/26/23 00:18	1
Vinyl chloride	**3.0**		1.0	0.40	ug/L			10/26/23 00:18	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/26/23 00:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*81*		*60 - 124*		*10/26/23 00:18*	*1*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*10/26/23 00:18*	*1*
Dibromofluoromethane (Surr)	*107*		*70 - 130*		*10/26/23 00:18*	*1*
Toluene-d8 (Surr)	*109*		*70 - 130*		*10/26/23 00:18*	*1*

Client Sample ID: LC34-DPT1002-008.0-20231019
Lab Sample ID: 670-28953-24

Date Collected: 10/19/23 11:20
Matrix: Water
Date Received: 10/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/26/23 00:37	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/26/23 00:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/26/23 00:37	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/26/23 00:37	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/26/23 00:37	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/26/23 00:37	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/26/23 00:37	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/26/23 00:37	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/26/23 00:37	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/26/23 00:37	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/26/23 00:37	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/26/23 00:37	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/26/23 00:37	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/26/23 00:37	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/26/23 00:37	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/26/23 00:37	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/26/23 00:37	1

Client Sample ID: LC34-DPT1002-008.0-20231019
Lab Sample ID: 670-28953-24

Date Collected: 10/19/23 11:20
Matrix: Water
Date Received: 10/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	3.7	U	10	3.7	ug/L			10/26/23 00:37	1
Benzene	0.27	U	1.0	0.27	ug/L			10/26/23 00:37	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/26/23 00:37	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/26/23 00:37	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/26/23 00:37	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/26/23 00:37	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/26/23 00:37	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/26/23 00:37	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/26/23 00:37	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/26/23 00:37	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/26/23 00:37	1
cis-1,2-Dichloroethene	**0.49**	**I**	1.0	0.25	ug/L			10/26/23 00:37	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/26/23 00:37	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/26/23 00:37	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/26/23 00:37	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/26/23 00:37	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/26/23 00:37	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/26/23 00:37	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/26/23 00:37	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/26/23 00:37	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/26/23 00:37	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/26/23 00:37	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/26/23 00:37	1
Styrene	0.27	U	1.0	0.27	ug/L			10/26/23 00:37	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/26/23 00:37	1
Toluene	0.25	U	1.0	0.25	ug/L			10/26/23 00:37	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/26/23 00:37	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/26/23 00:37	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/26/23 00:37	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/26/23 00:37	1
Vinyl chloride	**0.91**	**I**	1.0	0.40	ug/L			10/26/23 00:37	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/26/23 00:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*78*		*60 - 124*		*10/26/23 00:37*	*1*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*		*10/26/23 00:37*	*1*
Dibromofluoromethane (Surr)	*110*		*70 - 130*		*10/26/23 00:37*	*1*
Toluene-d8 (Surr)	*108*		*70 - 130*		*10/26/23 00:37*	*1*

Client Sample ID: LC34-DPT1003-038.0-20231019
Lab Sample ID: 670-28953-25

Date Collected: 10/19/23 12:05
Matrix: Water
Date Received: 10/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/26/23 00:56	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/26/23 00:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/26/23 00:56	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/26/23 00:56	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/26/23 00:56	1

Client: Tetra Tech, Inc.
Job ID: 670-28953-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT1003-038.0-20231019
Lab Sample ID: 670-28953-25
Date Collected: 10/19/23 12:05
Matrix: Water
Date Received: 10/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/26/23 00:56	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/26/23 00:56	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/26/23 00:56	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/26/23 00:56	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/26/23 00:56	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/26/23 00:56	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/26/23 00:56	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/26/23 00:56	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/26/23 00:56	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/26/23 00:56	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/26/23 00:56	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/26/23 00:56	1
Acetone	3.7	U	10	3.7	ug/L			10/26/23 00:56	1
Benzene	0.27	U	1.0	0.27	ug/L			10/26/23 00:56	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/26/23 00:56	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/26/23 00:56	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/26/23 00:56	1
Carbon disulfide	**0.99**	**I**	2.0	0.43	ug/L			10/26/23 00:56	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/26/23 00:56	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/26/23 00:56	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/26/23 00:56	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/26/23 00:56	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/26/23 00:56	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/26/23 00:56	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/26/23 00:56	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/26/23 00:56	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/26/23 00:56	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/26/23 00:56	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/26/23 00:56	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/26/23 00:56	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/26/23 00:56	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/26/23 00:56	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/26/23 00:56	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/26/23 00:56	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/26/23 00:56	1
Styrene	0.27	U	1.0	0.27	ug/L			10/26/23 00:56	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/26/23 00:56	1
Toluene	0.25	U	1.0	0.25	ug/L			10/26/23 00:56	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/26/23 00:56	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/26/23 00:56	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/26/23 00:56	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/26/23 00:56	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/26/23 00:56	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/26/23 00:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*78*		*60 - 124*		*10/26/23 00:56*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/26/23 00:56*	*1*
Dibromofluoromethane (Surr)	*105*		*70 - 130*		*10/26/23 00:56*	*1*
Toluene-d8 (Surr)	*107*		*70 - 130*		*10/26/23 00:56*	*1*

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28953-1

Client Sample ID: LC34-DPT1003-032.0-20231019
Date Collected: 10/19/23 12:20
Date Received: 10/20/23 08:00

Lab Sample ID: 670-28953-26
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/26/23 01:15	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/26/23 01:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/26/23 01:15	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/26/23 01:15	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/26/23 01:15	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/26/23 01:15	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/26/23 01:15	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/26/23 01:15	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/26/23 01:15	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/26/23 01:15	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/26/23 01:15	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/26/23 01:15	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/26/23 01:15	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/26/23 01:15	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/26/23 01:15	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/26/23 01:15	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/26/23 01:15	1
Acetone	3.7	U	10	3.7	ug/L			10/26/23 01:15	1
Benzene	0.27	U	1.0	0.27	ug/L			10/26/23 01:15	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/26/23 01:15	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/26/23 01:15	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/26/23 01:15	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/26/23 01:15	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/26/23 01:15	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/26/23 01:15	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/26/23 01:15	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/26/23 01:15	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/26/23 01:15	1
cis-1,2-Dichloroethene	**47**		1.0	0.25	ug/L			10/26/23 01:15	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/26/23 01:15	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/26/23 01:15	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/26/23 01:15	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/26/23 01:15	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/26/23 01:15	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/26/23 01:15	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/26/23 01:15	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/26/23 01:15	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/26/23 01:15	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/26/23 01:15	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/26/23 01:15	1
Styrene	0.27	U	1.0	0.27	ug/L			10/26/23 01:15	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/26/23 01:15	1
Toluene	0.25	U	1.0	0.25	ug/L			10/26/23 01:15	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/26/23 01:15	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/26/23 01:15	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/26/23 01:15	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/26/23 01:15	1
Vinyl chloride	**4.3**		1.0	0.40	ug/L			10/26/23 01:15	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/26/23 01:15	1

Client Sample ID: LC34-DPT1003-032.0-20231019
Lab Sample ID: 670-28953-26

Date Collected: 10/19/23 12:20
Matrix: Water
Date Received: 10/20/23 08:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*82*		*60 - 124*		*10/26/23 01:15*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*10/26/23 01:15*	*1*
Dibromofluoromethane (Surr)	*106*		*70 - 130*		*10/26/23 01:15*	*1*
Toluene-d8 (Surr)	*107*		*70 - 130*		*10/26/23 01:15*	*1*

Client Sample ID: LC34-DPT1003-025.0-20231019
Lab Sample ID: 670-28953-27

Date Collected: 10/19/23 12:35
Matrix: Water
Date Received: 10/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2.1	U	10	2.1	ug/L			10/26/23 03:15	10
1,1,2,2-Tetrachloroethane	4.0	U	10	4.0	ug/L			10/26/23 03:15	10
1,1,2-Trichloro-1,2,2-trifluoroethane	2.3	U	10	2.3	ug/L			10/26/23 03:15	10
1,1,2-Trichloroethane	3.2	U	10	3.2	ug/L			10/26/23 03:15	10
1,1-Dichloroethane	3.3	U	10	3.3	ug/L			10/26/23 03:15	10
1,1-Dichloroethene	3.3	U	10	3.3	ug/L			10/26/23 03:15	10
1,2,4-Trichlorobenzene	5.3	U	50	5.3	ug/L			10/26/23 03:15	10
1,2-Dibromo-3-Chloropropane	18	U	50	18	ug/L			10/26/23 03:15	10
1,2-Dibromoethane (EDB)	3.3	U	10	3.3	ug/L			10/26/23 03:15	10
1,2-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/26/23 03:15	10
1,2-Dichloroethane	2.5	U	10	2.5	ug/L			10/26/23 03:15	10
1,2-Dichloropropane	2.2	U	10	2.2	ug/L			10/26/23 03:15	10
1,3-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/26/23 03:15	10
1,4-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/26/23 03:15	10
2-Butanone (MEK)	64	U	100	64	ug/L			10/26/23 03:15	10
2-Hexanone	32	U	100	32	ug/L			10/26/23 03:15	10
4-Methyl-2-pentanone	27	U	100	27	ug/L			10/26/23 03:15	10
Acetone	**68**	**I**	100	37	ug/L			10/26/23 03:15	10
Benzene	2.7	U	10	2.7	ug/L			10/26/23 03:15	10
Bromodichloromethane	2.5	U	10	2.5	ug/L			10/26/23 03:15	10
Bromoform	5.9	U	10	5.9	ug/L			10/26/23 03:15	10
Bromomethane	37	U	50	37	ug/L			10/26/23 03:15	10
Carbon disulfide	4.3	U	20	4.3	ug/L			10/26/23 03:15	10
Carbon tetrachloride	3.0	U	10	3.0	ug/L			10/26/23 03:15	10
Chlorobenzene	1.5	U	10	1.5	ug/L			10/26/23 03:15	10
Chloroethane	46	U	50	46	ug/L			10/26/23 03:15	10
Chloroform	2.7	U	10	2.7	ug/L			10/26/23 03:15	10
Chloromethane	5.4	U	10	5.4	ug/L			10/26/23 03:15	10
cis-1,2-Dichloroethene	**1200**		10	2.5	ug/L			10/26/23 03:15	10
cis-1,3-Dichloropropene	2.6	U	10	2.6	ug/L			10/26/23 03:15	10
Cyclohexane	2.8	U	10	2.8	ug/L			10/26/23 03:15	10
Dibromochloromethane	3.9	U	10	3.9	ug/L			10/26/23 03:15	10
Dichlorodifluoromethane	3.6	U	10	3.6	ug/L			10/26/23 03:15	10
Ethylbenzene	2.0	U	10	2.0	ug/L			10/26/23 03:15	10
Isopropylbenzene	2.6	U	10	2.6	ug/L			10/26/23 03:15	10
m,p-Xylenes	4.9	U	10	4.9	ug/L			10/26/23 03:15	10
Methyl acetate	32	U	50	32	ug/L			10/26/23 03:15	10
Methyl tert-butyl ether	8.1	U	50	8.1	ug/L			10/26/23 03:15	10
Methylene Chloride	32	U	50	32	ug/L			10/26/23 03:15	10

Client Sample ID: LC34-DPT1003-025.0-20231019
Lab Sample ID: 670-28953-27

Date Collected: 10/19/23 12:35
Matrix: Water
Date Received: 10/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	2.6	U	10	2.6	ug/L			10/26/23 03:15	10
Styrene	2.7	U	10	2.7	ug/L			10/26/23 03:15	10
Tetrachloroethene	3.5	U	10	3.5	ug/L			10/26/23 03:15	10
Toluene	2.5	U	10	2.5	ug/L			10/26/23 03:15	10
trans-1,2-Dichloroethene	**5.7**	**I**	10	3.4	ug/L			10/26/23 03:15	10
trans-1,3-Dichloropropene	2.3	U	10	2.3	ug/L			10/26/23 03:15	10
Trichloroethene	2.0	U	10	2.0	ug/L			10/26/23 03:15	10
Trichlorofluoromethane	3.3	U	10	3.3	ug/L			10/26/23 03:15	10
Vinyl chloride	**1200**		10	4.0	ug/L			10/26/23 03:15	10
Xylenes, Total	2.3	U	10	2.3	ug/L			10/26/23 03:15	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*81*		*60 - 124*		*10/26/23 03:15*	*10*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*10/26/23 03:15*	*10*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*10/26/23 03:15*	*10*
Toluene-d8 (Surr)	*108*		*70 - 130*		*10/26/23 03:15*	*10*

Client Sample ID: LC34-DPT1003-018.0-20231019
Lab Sample ID: 670-28953-28

Date Collected: 10/19/23 12:50
Matrix: Water
Date Received: 10/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/26/23 01:34	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/26/23 01:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/26/23 01:34	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/26/23 01:34	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/26/23 01:34	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/26/23 01:34	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/26/23 01:34	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/26/23 01:34	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/26/23 01:34	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/26/23 01:34	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/26/23 01:34	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/26/23 01:34	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/26/23 01:34	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/26/23 01:34	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/26/23 01:34	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/26/23 01:34	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/26/23 01:34	1
Acetone	3.7	U	10	3.7	ug/L			10/26/23 01:34	1
Benzene	0.27	U	1.0	0.27	ug/L			10/26/23 01:34	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/26/23 01:34	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/26/23 01:34	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/26/23 01:34	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/26/23 01:34	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/26/23 01:34	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/26/23 01:34	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/26/23 01:34	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/26/23 01:34	1

Client Sample ID: LC34-DPT1003-018.0-20231019
Lab Sample ID: 670-28953-28

Date Collected: 10/19/23 12:50
Matrix: Water
Date Received: 10/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	0.54	U	1.0	0.54	ug/L			10/26/23 01:34	1
cis-1,2-Dichloroethene	**17**		1.0	0.25	ug/L			10/26/23 01:34	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/26/23 01:34	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/26/23 01:34	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/26/23 01:34	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/26/23 01:34	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/26/23 01:34	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/26/23 01:34	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/26/23 01:34	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/26/23 01:34	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/26/23 01:34	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/26/23 01:34	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/26/23 01:34	1
Styrene	0.27	U	1.0	0.27	ug/L			10/26/23 01:34	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/26/23 01:34	1
Toluene	0.25	U	1.0	0.25	ug/L			10/26/23 01:34	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/26/23 01:34	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/26/23 01:34	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/26/23 01:34	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/26/23 01:34	1
Vinyl chloride	**29**		1.0	0.40	ug/L			10/26/23 01:34	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/26/23 01:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*78*		*60 - 124*		*10/26/23 01:34*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*10/26/23 01:34*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*10/26/23 01:34*	*1*
Toluene-d8 (Surr)	*108*		*70 - 130*		*10/26/23 01:34*	*1*

Client Sample ID: LC34-DPT1003-013.0-20231019
Lab Sample ID: 670-28953-29

Date Collected: 10/19/23 13:05
Matrix: Water
Date Received: 10/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/26/23 01:53	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/26/23 01:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/26/23 01:53	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/26/23 01:53	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/26/23 01:53	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/26/23 01:53	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/26/23 01:53	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/26/23 01:53	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/26/23 01:53	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/26/23 01:53	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/26/23 01:53	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/26/23 01:53	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/26/23 01:53	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/26/23 01:53	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/26/23 01:53	1

Client Sample ID: LC34-DPT1003-013.0-20231019
Lab Sample ID: 670-28953-29

Date Collected: 10/19/23 13:05
Matrix: Water
Date Received: 10/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	3.2	U	10	3.2	ug/L			10/26/23 01:53	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/26/23 01:53	1
Acetone	3.7	U	10	3.7	ug/L			10/26/23 01:53	1
Benzene	0.27	U	1.0	0.27	ug/L			10/26/23 01:53	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/26/23 01:53	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/26/23 01:53	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/26/23 01:53	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/26/23 01:53	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/26/23 01:53	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/26/23 01:53	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/26/23 01:53	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/26/23 01:53	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/26/23 01:53	1
cis-1,2-Dichloroethene	**6.5**		1.0	0.25	ug/L			10/26/23 01:53	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/26/23 01:53	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/26/23 01:53	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/26/23 01:53	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/26/23 01:53	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/26/23 01:53	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/26/23 01:53	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/26/23 01:53	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/26/23 01:53	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/26/23 01:53	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/26/23 01:53	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/26/23 01:53	1
Styrene	0.27	U	1.0	0.27	ug/L			10/26/23 01:53	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/26/23 01:53	1
Toluene	0.25	U	1.0	0.25	ug/L			10/26/23 01:53	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/26/23 01:53	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/26/23 01:53	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/26/23 01:53	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/26/23 01:53	1
Vinyl chloride	**8.9**		1.0	0.40	ug/L			10/26/23 01:53	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/26/23 01:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*79*		*60 - 124*		*10/26/23 01:53*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*10/26/23 01:53*	*1*
Dibromofluoromethane (Surr)	*108*		*70 - 130*		*10/26/23 01:53*	*1*
Toluene-d8 (Surr)	*107*		*70 - 130*		*10/26/23 01:53*	*1*

Client Sample ID: LC34-DPT1003-008.0-20231019
Lab Sample ID: 670-28953-30

Date Collected: 10/19/23 13:20
Matrix: Water
Date Received: 10/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/26/23 02:12	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/26/23 02:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/26/23 02:12	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28953-1

Client Sample ID: LC34-DPT1003-008.0-20231019
Date Collected: 10/19/23 13:20
Date Received: 10/20/23 08:00

Lab Sample ID: 670-28953-30
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/26/23 02:12	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/26/23 02:12	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/26/23 02:12	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/26/23 02:12	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/26/23 02:12	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/26/23 02:12	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/26/23 02:12	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/26/23 02:12	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/26/23 02:12	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/26/23 02:12	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/26/23 02:12	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/26/23 02:12	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/26/23 02:12	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/26/23 02:12	1
Acetone	3.7	U	10	3.7	ug/L			10/26/23 02:12	1
Benzene	0.27	U	1.0	0.27	ug/L			10/26/23 02:12	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/26/23 02:12	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/26/23 02:12	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/26/23 02:12	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/26/23 02:12	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/26/23 02:12	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/26/23 02:12	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/26/23 02:12	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/26/23 02:12	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/26/23 02:12	1
cis-1,2-Dichloroethene	**2.9**		1.0	0.25	ug/L			10/26/23 02:12	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/26/23 02:12	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/26/23 02:12	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/26/23 02:12	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/26/23 02:12	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/26/23 02:12	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/26/23 02:12	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/26/23 02:12	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/26/23 02:12	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/26/23 02:12	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/26/23 02:12	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/26/23 02:12	1
Styrene	0.27	U	1.0	0.27	ug/L			10/26/23 02:12	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/26/23 02:12	1
Toluene	0.25	U	1.0	0.25	ug/L			10/26/23 02:12	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/26/23 02:12	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/26/23 02:12	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/26/23 02:12	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/26/23 02:12	1
Vinyl chloride	**3.2**		1.0	0.40	ug/L			10/26/23 02:12	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/26/23 02:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*78*		*60 - 124*		*10/26/23 02:12*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*10/26/23 02:12*	*1*

Client: Tetra Tech, Inc.
Job ID: 670-28953-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT1003-008.0-20231019
Lab Sample ID: 670-28953-30
Date Collected: 10/19/23 13:20
Matrix: Water
Date Received: 10/20/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	106		70 - 130		10/26/23 02:12	1
Toluene-d8 (Surr)	108		70 - 130		10/26/23 02:12	1

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28953-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(60-124)	(70-130)	(70-130)	(70-130)
670-28953-1	LC34-DPT0999-038.0-20231018	78	109	102	105
670-28953-2	LC34-DPT0999-032.0-20231018	78	108	103	108
670-28953-3	LC34-DPT0999-025.0-20231018	86	108	107	105
670-28953-4	LC34-DPT0999-018.0-20231018	85	106	105	107
670-28953-5	LC34-DPT0999-013.0-20231018	81	104	103	104
670-28953-6	LC34-DPT0999-008.0-20231018	81	111	103	108
670-28953-7	LC34-DPT1000-038.0-20231018	95	90	96	100
670-28953-8	LC34-DPT1000-032.0-20231018	95	91	96	98
670-28953-9	LC34-DPT1000-025.0-20231018	96	90	97	99
670-28953-9 - DL	LC34-DPT1000-025.0-20231018	95	92	96	99
670-28953-10	LC34-DPT1000-018.0-20231018	95	90	96	98
670-28953-11	LC34-DPT1000-013.0-20231018	96	93	95	99
670-28953-12	LC34-DPT1000-008.0-20231018	94	91	95	98
670-28953-13	LC34-DPT1001-038.0-20231018	78	105	103	107
670-28953-14	LC34-DPT1001-032.0-20231019	80	104	103	105
670-28953-15	LC34-DPT1001-025.0-20231019	80	97	108	107
670-28953-16	LC34-DPT1001-018.0-20231019	81	107	108	105
670-28953-17	LC34-DPT1001-013.0-20231019	84	113	104	104
670-28953-18	LC34-DPT1001-008.0-20231019	80	102	105	107
670-28953-19	LC34-DPT1002-038.0-20231019	80	101	106	106
670-28953-20	LC34-DPT1002-032.0-20231019	80	105	107	106
670-28953-21	LC34-DPT1002-025.0-20231019	82	98	107	107
670-28953-22	LC34-DPT1002-018.0-20231019	84	111	106	106
670-28953-23	LC34-DPT1002-013.0-20231019	81	96	107	109
670-28953-24	LC34-DPT1002-008.0-20231019	78	106	110	108
670-28953-25	LC34-DPT1003-038.0-20231019	78	101	105	107
670-28953-26	LC34-DPT1003-032.0-20231019	82	102	106	107
670-28953-27	LC34-DPT1003-025.0-20231019	81	97	109	108

Surrogate Summary

Client: Tetra Tech, Inc.
Job ID: 670-28953-1
Project/Site: NASA KSC LC34 DPT

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Matrix: Water
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(60-124)	(70-130)	(70-130)	(70-130)
670-28953-28	LC34-DPT1003-018.0-20231019	78	102	104	108
670-28953-29	LC34-DPT1003-013.0-20231019	79	99	108	107
670-28953-30	LC34-DPT1003-008.0-20231019	78	99	106	108
LCS 680-804460/3	Lab Control Sample	102	101	106	103
LCS 680-804481/4	Lab Control Sample	105	88	107	110
LCS 680-804647/3	Lab Control Sample	107	101	109	111
LCSD 680-804460/4	Lab Control Sample Dup	105	100	108	106
LCSD 680-804481/5	Lab Control Sample Dup	104	89	106	109
LCSD 680-804647/4	Lab Control Sample Dup	112	98	115	111
MB 680-804460/7	Method Blank	80	106	103	106
MB 680-804481/7	Method Blank	106	85	110	112
MB 680-804647/7	Method Blank	80	110	104	105

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 680-804460/7
Matrix: Water
Analysis Batch: 804460

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/25/23 11:51	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/25/23 11:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/25/23 11:51	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/25/23 11:51	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/25/23 11:51	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/25/23 11:51	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/25/23 11:51	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/25/23 11:51	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/25/23 11:51	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/25/23 11:51	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/25/23 11:51	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/25/23 11:51	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/25/23 11:51	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/25/23 11:51	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/25/23 11:51	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/25/23 11:51	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/25/23 11:51	1
Acetone	3.7	U	10	3.7	ug/L			10/25/23 11:51	1
Benzene	0.27	U	1.0	0.27	ug/L			10/25/23 11:51	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/25/23 11:51	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/25/23 11:51	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/25/23 11:51	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/25/23 11:51	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/25/23 11:51	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/25/23 11:51	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/25/23 11:51	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/25/23 11:51	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/25/23 11:51	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/25/23 11:51	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/25/23 11:51	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/25/23 11:51	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/25/23 11:51	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/25/23 11:51	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/25/23 11:51	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/25/23 11:51	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/25/23 11:51	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/25/23 11:51	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/25/23 11:51	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/25/23 11:51	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/25/23 11:51	1
Styrene	0.27	U	1.0	0.27	ug/L			10/25/23 11:51	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/25/23 11:51	1
Toluene	0.25	U	1.0	0.25	ug/L			10/25/23 11:51	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/25/23 11:51	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/25/23 11:51	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/25/23 11:51	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/25/23 11:51	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/25/23 11:51	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-804460/7
Matrix: Water
Analysis Batch: 804460

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/25/23 11:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*80*		*60 - 124*		*10/25/23 11:51*	*1*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*		*10/25/23 11:51*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*10/25/23 11:51*	*1*
Toluene-d8 (Surr)	*106*		*70 - 130*		*10/25/23 11:51*	*1*

Lab Sample ID: LCS 680-804460/3
Matrix: Water
Analysis Batch: 804460

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	47.0		ug/L		94	70 - 130
1,1,2,2-Tetrachloroethane	50.0	49.8		ug/L		100	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	48.1		ug/L		96	63 - 141
1,1,2-Trichloroethane	50.0	47.9		ug/L		96	70 - 130
1,1-Dichloroethane	50.0	50.8		ug/L		102	70 - 130
1,1-Dichloroethene	50.0	45.6		ug/L		91	70 - 130
1,2,4-Trichlorobenzene	50.0	48.0		ug/L		96	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	50.8		ug/L		102	70 - 130
1,2-Dibromoethane (EDB)	50.0	39.5		ug/L		79	70 - 130
1,2-Dichlorobenzene	50.0	49.9		ug/L		100	70 - 130
1,2-Dichloroethane	50.0	49.2		ug/L		98	70 - 130
1,2-Dichloropropane	50.0	48.4		ug/L		97	70 - 130
1,3-Dichlorobenzene	50.0	48.9		ug/L		98	70 - 130
1,4-Dichlorobenzene	50.0	49.3		ug/L		99	70 - 130
2-Butanone (MEK)	250	203		ug/L		81	69 - 120
2-Hexanone	250	197		ug/L		79	70 - 130
4-Methyl-2-pentanone	250	221		ug/L		88	68 - 120
Acetone	250	227		ug/L		91	67 - 120
Benzene	50.0	48.8		ug/L		98	70 - 130
Bromodichloromethane	50.0	48.2		ug/L		96	70 - 130
Bromoform	50.0	44.9		ug/L		90	69 - 129
Bromomethane	50.0	45.5		ug/L		91	28 - 192
Carbon disulfide	50.0	45.0		ug/L		90	70 - 130
Carbon tetrachloride	50.0	49.2		ug/L		98	70 - 130
Chlorobenzene	50.0	50.4		ug/L		101	70 - 130
Chloroethane	50.0	41.9		ug/L		84	31 - 213
Chloroform	50.0	54.1		ug/L		108	70 - 130
Chloromethane	50.0	45.5		ug/L		91	59 - 127
cis-1,2-Dichloroethene	50.0	50.6		ug/L		101	70 - 130
cis-1,3-Dichloropropene	50.0	47.7		ug/L		95	70 - 130
Cyclohexane	50.0	45.5		ug/L		91	23 - 175
Dibromochloromethane	50.0	39.0		ug/L		78	70 - 130
Dichlorodifluoromethane	50.0	44.1		ug/L		88	70 - 130
Ethylbenzene	50.0	50.1		ug/L		100	70 - 130
Isopropylbenzene	50.0	51.2		ug/L		102	70 - 130

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-804460/3
Matrix: Water
Analysis Batch: 804460

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
m,p-Xylenes	50.0	50.8		ug/L		102	70 - 130
Methyl acetate	100	82.8		ug/L		83	67 - 120
Methyl tert-butyl ether	50.0	44.2		ug/L		88	70 - 130
Methylene Chloride	50.0	48.9		ug/L		98	70 - 130
o-Xylene	50.0	49.6		ug/L		99	70 - 130
Styrene	50.0	51.3		ug/L		103	70 - 130
Tetrachloroethene	50.0	44.0		ug/L		88	70 - 130
Toluene	50.0	48.3		ug/L		97	70 - 130
trans-1,2-Dichloroethene	50.0	41.0		ug/L		82	70 - 130
trans-1,3-Dichloropropene	50.0	50.2		ug/L		100	70 - 130
Trichloroethene	50.0	49.2		ug/L		98	70 - 130
Trichlorofluoromethane	50.0	43.1		ug/L		86	63 - 142
Vinyl chloride	50.0	42.8		ug/L		86	66 - 129
Xylenes, Total	100	100		ug/L		100	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 124*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
Dibromofluoromethane (Surr)	*106*		*70 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*

Lab Sample ID: LCSD 680-804460/4
Matrix: Water
Analysis Batch: 804460

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	50.0	47.9		ug/L		96	70 - 130	2	30
1,1,2,2-Tetrachloroethane	50.0	48.8		ug/L		98	70 - 130	2	30
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	53.5		ug/L		107	63 - 141	11	30
1,1,2-Trichloroethane	50.0	50.6		ug/L		101	70 - 130	6	30
1,1-Dichloroethane	50.0	49.8		ug/L		100	70 - 130	2	30
1,1-Dichloroethene	50.0	51.9		ug/L		104	70 - 130	13	20
1,2,4-Trichlorobenzene	50.0	49.6		ug/L		99	70 - 130	3	30
1,2-Dibromo-3-Chloropropane	50.0	51.2		ug/L		102	70 - 130	1	30
1,2-Dibromoethane (EDB)	50.0	47.3		ug/L		95	70 - 130	18	30
1,2-Dichlorobenzene	50.0	48.8		ug/L		98	70 - 130	2	30
1,2-Dichloroethane	50.0	50.1		ug/L		100	70 - 130	2	50
1,2-Dichloropropane	50.0	49.1		ug/L		98	70 - 130	1	20
1,3-Dichlorobenzene	50.0	49.0		ug/L		98	70 - 130	0	30
1,4-Dichlorobenzene	50.0	49.4		ug/L		99	70 - 130	0	30
2-Butanone (MEK)	250	211		ug/L		84	69 - 120	4	30
2-Hexanone	250	238		ug/L		95	70 - 130	19	20
4-Methyl-2-pentanone	250	229		ug/L		91	68 - 120	3	30
Acetone	250	248		ug/L		99	67 - 120	9	30
Benzene	50.0	49.8		ug/L		100	70 - 130	2	30
Bromodichloromethane	50.0	47.7		ug/L		95	70 - 130	1	30
Bromoform	50.0	44.7		ug/L		89	69 - 129	0	30
Bromomethane	50.0	54.9		ug/L		110	28 - 192	19	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-804460/4
Matrix: Water
Analysis Batch: 804460

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon disulfide	50.0	51.6		ug/L		103	70 - 130	14	30
Carbon tetrachloride	50.0	48.6		ug/L		97	70 - 130	1	30
Chlorobenzene	50.0	49.4		ug/L		99	70 - 130	2	30
Chloroethane	50.0	50.5		ug/L		101	31 - 213	19	30
Chloroform	50.0	51.7		ug/L		103	70 - 130	5	30
Chloromethane	50.0	52.9		ug/L		106	59 - 127	15	30
cis-1,2-Dichloroethene	50.0	51.4		ug/L		103	70 - 130	2	30
cis-1,3-Dichloropropene	50.0	48.9		ug/L		98	70 - 130	2	20
Cyclohexane	50.0	44.9		ug/L		90	23 - 175	1	30
Dibromochloromethane	50.0	47.4		ug/L		95	70 - 130	19	30
Dichlorodifluoromethane	50.0	51.8		ug/L		104	70 - 130	16	40
Ethylbenzene	50.0	50.0		ug/L		100	70 - 130	0	20
Isopropylbenzene	50.0	49.9		ug/L		100	70 - 130	3	30
m,p-Xylenes	50.0	50.7		ug/L		101	70 - 130	0	30
Methyl acetate	100	84.9		ug/L		85	67 - 120	3	30
Methyl tert-butyl ether	50.0	45.0		ug/L		90	70 - 130	2	30
Methylene Chloride	50.0	49.0		ug/L		98	70 - 130	0	30
o-Xylene	50.0	49.4		ug/L		99	70 - 130	0	30
Styrene	50.0	50.8		ug/L		102	70 - 130	1	30
Tetrachloroethene	50.0	47.3		ug/L		95	70 - 130	7	30
Toluene	50.0	49.5		ug/L		99	70 - 130	3	30
trans-1,2-Dichloroethene	50.0	50.4		ug/L		101	70 - 130	21	30
trans-1,3-Dichloropropene	50.0	52.2		ug/L		104	70 - 130	4	30
Trichloroethene	50.0	49.2		ug/L		98	70 - 130	0	30
Trichlorofluoromethane	50.0	49.8		ug/L		100	63 - 142	14	30
Vinyl chloride	50.0	50.3		ug/L		101	66 - 129	16	30
Xylenes, Total	100	100		ug/L		100	70 - 130	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 124*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
Dibromofluoromethane (Surr)	*108*		*70 - 130*
Toluene-d8 (Surr)	*106*		*70 - 130*

Lab Sample ID: MB 680-804481/7
Matrix: Water
Analysis Batch: 804481

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/25/23 12:23	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/25/23 12:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/25/23 12:23	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/25/23 12:23	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/25/23 12:23	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/25/23 12:23	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/25/23 12:23	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/25/23 12:23	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/25/23 12:23	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-804481/7
Matrix: Water
Analysis Batch: 804481

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/25/23 12:23	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/25/23 12:23	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/25/23 12:23	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/25/23 12:23	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/25/23 12:23	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/25/23 12:23	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/25/23 12:23	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/25/23 12:23	1
Acetone	3.7	U	10	3.7	ug/L			10/25/23 12:23	1
Benzene	0.27	U	1.0	0.27	ug/L			10/25/23 12:23	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/25/23 12:23	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/25/23 12:23	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/25/23 12:23	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/25/23 12:23	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/25/23 12:23	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/25/23 12:23	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/25/23 12:23	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/25/23 12:23	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/25/23 12:23	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/25/23 12:23	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/25/23 12:23	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/25/23 12:23	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/25/23 12:23	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/25/23 12:23	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/25/23 12:23	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/25/23 12:23	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/25/23 12:23	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/25/23 12:23	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/25/23 12:23	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/25/23 12:23	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/25/23 12:23	1
Styrene	0.27	U	1.0	0.27	ug/L			10/25/23 12:23	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/25/23 12:23	1
Toluene	0.25	U	1.0	0.25	ug/L			10/25/23 12:23	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/25/23 12:23	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/25/23 12:23	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/25/23 12:23	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/25/23 12:23	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/25/23 12:23	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/25/23 12:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*60 - 124*		*10/25/23 12:23*	*1*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*		*10/25/23 12:23*	*1*
Dibromofluoromethane (Surr)	*110*		*70 - 130*		*10/25/23 12:23*	*1*
Toluene-d8 (Surr)	*112*		*70 - 130*		*10/25/23 12:23*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-804481/4
Matrix: Water
Analysis Batch: 804481

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	49.0		ug/L		98	70 - 130
1,1,2,2-Tetrachloroethane	50.0	45.4		ug/L		91	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	54.4		ug/L		109	63 - 141
1,1,2-Trichloroethane	50.0	51.9		ug/L		104	70 - 130
1,1-Dichloroethane	50.0	54.0		ug/L		108	70 - 130
1,1-Dichloroethene	50.0	51.9		ug/L		104	70 - 130
1,2,4-Trichlorobenzene	50.0	44.8		ug/L		90	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	35.7		ug/L		71	70 - 130
1,2-Dibromoethane (EDB)	50.0	52.8		ug/L		106	70 - 130
1,2-Dichlorobenzene	50.0	45.6		ug/L		91	70 - 130
1,2-Dichloroethane	50.0	53.0		ug/L		106	70 - 130
1,2-Dichloropropane	50.0	53.7		ug/L		107	70 - 130
1,3-Dichlorobenzene	50.0	45.7		ug/L		91	70 - 130
1,4-Dichlorobenzene	50.0	46.1		ug/L		92	70 - 130
2-Butanone (MEK)	250	200		ug/L		80	69 - 120
2-Hexanone	250	244		ug/L		98	70 - 130
4-Methyl-2-pentanone	250	251		ug/L		100	68 - 120
Acetone	250	238		ug/L		95	67 - 120
Benzene	50.0	53.6		ug/L		107	70 - 130
Bromodichloromethane	50.0	49.8		ug/L		100	70 - 130
Bromoform	50.0	35.9		ug/L		72	69 - 129
Bromomethane	50.0	54.7		ug/L		109	28 - 192
Carbon disulfide	50.0	50.1		ug/L		100	70 - 130
Carbon tetrachloride	50.0	44.8		ug/L		90	70 - 130
Chlorobenzene	50.0	48.6		ug/L		97	70 - 130
Chloroethane	50.0	106		ug/L		213	31 - 213
Chloroform	50.0	51.7		ug/L		103	70 - 130
Chloromethane	50.0	56.0		ug/L		112	59 - 127
cis-1,2-Dichloroethene	50.0	52.9		ug/L		106	70 - 130
cis-1,3-Dichloropropene	50.0	51.0		ug/L		102	70 - 130
Cyclohexane	50.0	50.4		ug/L		101	23 - 175
Dibromochloromethane	50.0	46.5		ug/L		93	70 - 130
Dichlorodifluoromethane	50.0	59.9		ug/L		120	70 - 130
Ethylbenzene	50.0	48.1		ug/L		96	70 - 130
Isopropylbenzene	50.0	47.9		ug/L		96	70 - 130
m,p-Xylenes	50.0	47.6		ug/L		95	70 - 130
Methyl acetate	100	90.7		ug/L		91	67 - 120
Methyl tert-butyl ether	50.0	52.1		ug/L		104	70 - 130
Methylene Chloride	50.0	53.5		ug/L		107	70 - 130
o-Xylene	50.0	47.7		ug/L		95	70 - 130
Styrene	50.0	47.6		ug/L		95	70 - 130
Tetrachloroethene	50.0	53.0		ug/L		106	70 - 130
Toluene	50.0	53.4		ug/L		107	70 - 130
trans-1,2-Dichloroethene	50.0	51.8		ug/L		104	70 - 130
trans-1,3-Dichloropropene	50.0	49.9		ug/L		100	70 - 130
Trichloroethene	50.0	53.6		ug/L		107	70 - 130
Trichlorofluoromethane	50.0	58.9		ug/L		118	63 - 142
Vinyl chloride	50.0	59.0		ug/L		118	66 - 129

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-804481/4
Matrix: Water
Analysis Batch: 804481

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Xylenes, Total			100	95.3		ug/L		95	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 124*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*
Dibromofluoromethane (Surr)	*107*		*70 - 130*
Toluene-d8 (Surr)	*110*		*70 - 130*

Lab Sample ID: LCSD 680-804481/5
Matrix: Water
Analysis Batch: 804481

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane			50.0	48.9		ug/L		98	70 - 130	0	30
1,1,2,2-Tetrachloroethane			50.0	46.9		ug/L		94	70 - 130	3	30
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	52.4		ug/L		105	63 - 141	4	30
1,1,2-Trichloroethane			50.0	52.2		ug/L		104	70 - 130	0	30
1,1-Dichloroethane			50.0	53.3		ug/L		107	70 - 130	1	30
1,1-Dichloroethene			50.0	50.5		ug/L		101	70 - 130	3	20
1,2,4-Trichlorobenzene			50.0	46.6		ug/L		93	70 - 130	4	30
1,2-Dibromo-3-Chloropropane			50.0	39.1		ug/L		78	70 - 130	9	30
1,2-Dibromoethane (EDB)			50.0	53.0		ug/L		106	70 - 130	0	30
1,2-Dichlorobenzene			50.0	47.0		ug/L		94	70 - 130	3	30
1,2-Dichloroethane			50.0	53.5		ug/L		107	70 - 130	1	50
1,2-Dichloropropane			50.0	53.0		ug/L		106	70 - 130	1	20
1,3-Dichlorobenzene			50.0	46.4		ug/L		93	70 - 130	2	30
1,4-Dichlorobenzene			50.0	46.4		ug/L		93	70 - 130	1	30
2-Butanone (MEK)			250	222		ug/L		89	69 - 120	10	30
2-Hexanone			250	263		ug/L		105	70 - 130	8	20
4-Methyl-2-pentanone			250	266		ug/L		106	68 - 120	6	30
Acetone			250	261		ug/L		104	67 - 120	9	30
Benzene			50.0	52.9		ug/L		106	70 - 130	1	30
Bromodichloromethane			50.0	49.4		ug/L		99	70 - 130	1	30
Bromoform			50.0	36.6		ug/L		73	69 - 129	2	30
Bromomethane			50.0	48.1		ug/L		96	28 - 192	13	30
Carbon disulfide			50.0	47.4		ug/L		95	70 - 130	6	30
Carbon tetrachloride			50.0	45.1		ug/L		90	70 - 130	1	30
Chlorobenzene			50.0	47.8		ug/L		96	70 - 130	2	30
Chloroethane			50.0	90.1		ug/L		180	31 - 213	17	30
Chloroform			50.0	50.4		ug/L		101	70 - 130	3	30
Chloromethane			50.0	54.2		ug/L		108	59 - 127	3	30
cis-1,2-Dichloroethene			50.0	52.9		ug/L		106	70 - 130	0	30
cis-1,3-Dichloropropene			50.0	51.1		ug/L		102	70 - 130	0	20
Cyclohexane			50.0	49.7		ug/L		99	23 - 175	1	30
Dibromochloromethane			50.0	46.2		ug/L		92	70 - 130	0	30
Dichlorodifluoromethane			50.0	57.7		ug/L		115	70 - 130	4	40
Ethylbenzene			50.0	47.2		ug/L		94	70 - 130	2	20
Isopropylbenzene			50.0	47.5		ug/L		95	70 - 130	1	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-804481/5
Matrix: Water
Analysis Batch: 804481

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m,p-Xylenes			50.0	47.0		ug/L		94	70 - 130	1	30
Methyl acetate			100	96.9		ug/L		97	67 - 120	7	30
Methyl tert-butyl ether			50.0	53.0		ug/L		106	70 - 130	2	30
Methylene Chloride			50.0	53.0		ug/L		106	70 - 130	1	30
o-Xylene			50.0	46.7		ug/L		93	70 - 130	2	30
Styrene			50.0	46.9		ug/L		94	70 - 130	2	30
Tetrachloroethene			50.0	53.1		ug/L		106	70 - 130	0	30
Toluene			50.0	53.0		ug/L		106	70 - 130	1	30
trans-1,2-Dichloroethene			50.0	50.9		ug/L		102	70 - 130	2	30
trans-1,3-Dichloropropene			50.0	49.9		ug/L		100	70 - 130	0	30
Trichloroethene			50.0	53.7		ug/L		107	70 - 130	0	30
Trichlorofluoromethane			50.0	55.8		ug/L		112	63 - 142	5	30
Vinyl chloride			50.0	56.5		ug/L		113	66 - 129	4	30
Xylenes, Total			100	93.7		ug/L		94	70 - 130	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 124*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*
Dibromofluoromethane (Surr)	*106*		*70 - 130*
Toluene-d8 (Surr)	*109*		*70 - 130*

Lab Sample ID: MB 680-804647/7
Matrix: Water
Analysis Batch: 804647

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/25/23 21:28	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/25/23 21:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/25/23 21:28	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/25/23 21:28	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/25/23 21:28	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/25/23 21:28	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/25/23 21:28	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/25/23 21:28	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/25/23 21:28	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/25/23 21:28	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/25/23 21:28	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/25/23 21:28	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/25/23 21:28	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/25/23 21:28	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/25/23 21:28	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/25/23 21:28	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/25/23 21:28	1
Acetone	3.7	U	10	3.7	ug/L			10/25/23 21:28	1
Benzene	0.27	U	1.0	0.27	ug/L			10/25/23 21:28	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/25/23 21:28	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/25/23 21:28	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/25/23 21:28	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-804647/7
Matrix: Water
Analysis Batch: 804647

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/25/23 21:28	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/25/23 21:28	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/25/23 21:28	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/25/23 21:28	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/25/23 21:28	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/25/23 21:28	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/25/23 21:28	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/25/23 21:28	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/25/23 21:28	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/25/23 21:28	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/25/23 21:28	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/25/23 21:28	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/25/23 21:28	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/25/23 21:28	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/25/23 21:28	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/25/23 21:28	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/25/23 21:28	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/25/23 21:28	1
Styrene	0.27	U	1.0	0.27	ug/L			10/25/23 21:28	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/25/23 21:28	1
Toluene	0.25	U	1.0	0.25	ug/L			10/25/23 21:28	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/25/23 21:28	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/25/23 21:28	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/25/23 21:28	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/25/23 21:28	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/25/23 21:28	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/25/23 21:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*80*		*60 - 124*		*10/25/23 21:28*	*1*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*		*10/25/23 21:28*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*10/25/23 21:28*	*1*
Toluene-d8 (Surr)	*105*		*70 - 130*		*10/25/23 21:28*	*1*

Lab Sample ID: LCS 680-804647/3
Matrix: Water
Analysis Batch: 804647

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	48.4		ug/L		97	70 - 130
1,1,2,2-Tetrachloroethane	50.0	51.7		ug/L		103	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	45.6		ug/L		91	63 - 141
1,1,2-Trichloroethane	50.0	51.6		ug/L		103	70 - 130
1,1-Dichloroethane	50.0	50.2		ug/L		100	70 - 130
1,1-Dichloroethene	50.0	47.3		ug/L		95	70 - 130
1,2,4-Trichlorobenzene	50.0	52.7		ug/L		105	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	47.2		ug/L		94	70 - 130
1,2-Dibromoethane (EDB)	50.0	49.3		ug/L		99	70 - 130

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-804647/3
Matrix: Water
Analysis Batch: 804647

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichlorobenzene	50.0	52.0		ug/L		104	70 - 130
1,2-Dichloroethane	50.0	52.3		ug/L		105	70 - 130
1,2-Dichloropropane	50.0	50.1		ug/L		100	70 - 130
1,3-Dichlorobenzene	50.0	49.8		ug/L		100	70 - 130
1,4-Dichlorobenzene	50.0	51.1		ug/L		102	70 - 130
2-Butanone (MEK)	250	214		ug/L		86	69 - 120
2-Hexanone	250	241		ug/L		96	70 - 130
4-Methyl-2-pentanone	250	233		ug/L		93	68 - 120
Acetone	250	238		ug/L		95	67 - 120
Benzene	50.0	50.1		ug/L		100	70 - 130
Bromodichloromethane	50.0	50.4		ug/L		101	70 - 130
Bromoform	50.0	47.6		ug/L		95	69 - 129
Bromomethane	50.0	55.4		ug/L		111	28 - 192
Carbon disulfide	50.0	46.4		ug/L		93	70 - 130
Carbon tetrachloride	50.0	51.4		ug/L		103	70 - 130
Chlorobenzene	50.0	51.4		ug/L		103	70 - 130
Chloroethane	50.0	56.8		ug/L		114	31 - 213
Chloroform	50.0	52.9		ug/L		106	70 - 130
Chloromethane	50.0	51.1		ug/L		102	59 - 127
cis-1,2-Dichloroethene	50.0	54.5		ug/L		109	70 - 130
cis-1,3-Dichloropropene	50.0	48.6		ug/L		97	70 - 130
Cyclohexane	50.0	43.8		ug/L		88	23 - 175
Dibromochloromethane	50.0	48.9		ug/L		98	70 - 130
Dichlorodifluoromethane	50.0	46.5		ug/L		93	70 - 130
Ethylbenzene	50.0	51.1		ug/L		102	70 - 130
Isopropylbenzene	50.0	52.1		ug/L		104	70 - 130
m,p-Xylenes	50.0	51.8		ug/L		104	70 - 130
Methyl acetate	100	85.9		ug/L		86	67 - 120
Methyl tert-butyl ether	50.0	45.6		ug/L		91	70 - 130
Methylene Chloride	50.0	50.7		ug/L		101	70 - 130
o-Xylene	50.0	50.9		ug/L		102	70 - 130
Styrene	50.0	54.4		ug/L		109	70 - 130
Tetrachloroethene	50.0	49.3		ug/L		99	70 - 130
Toluene	50.0	51.5		ug/L		103	70 - 130
trans-1,2-Dichloroethene	50.0	51.2		ug/L		102	70 - 130
trans-1,3-Dichloropropene	50.0	51.5		ug/L		103	70 - 130
Trichloroethene	50.0	50.5		ug/L		101	70 - 130
Trichlorofluoromethane	50.0	52.0		ug/L		104	63 - 142
Vinyl chloride	50.0	47.3		ug/L		95	66 - 129
Xylenes, Total	100	103		ug/L		103	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*107*		*60 - 124*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
Dibromofluoromethane (Surr)	*109*		*70 - 130*
Toluene-d8 (Surr)	*111*		*70 - 130*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-804647/4
Matrix: Water
Analysis Batch: 804647

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane			50.0	47.2		ug/L		94	70 - 130	2	30
1,1,2,2-Tetrachloroethane			50.0	55.1		ug/L		110	70 - 130	6	30
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	46.9		ug/L		94	63 - 141	3	30
1,1,2-Trichloroethane			50.0	52.4		ug/L		105	70 - 130	2	30
1,1-Dichloroethane			50.0	51.1		ug/L		102	70 - 130	2	30
1,1-Dichloroethene			50.0	44.7		ug/L		89	70 - 130	6	20
1,2,4-Trichlorobenzene			50.0	53.5		ug/L		107	70 - 130	1	30
1,2-Dibromo-3-Chloropropane			50.0	52.8		ug/L		106	70 - 130	11	30
1,2-Dibromoethane (EDB)			50.0	51.1		ug/L		102	70 - 130	4	30
1,2-Dichlorobenzene			50.0	51.4		ug/L		103	70 - 130	1	30
1,2-Dichloroethane			50.0	52.5		ug/L		105	70 - 130	0	50
1,2-Dichloropropane			50.0	49.1		ug/L		98	70 - 130	2	20
1,3-Dichlorobenzene			50.0	49.8		ug/L		100	70 - 130	0	30
1,4-Dichlorobenzene			50.0	50.6		ug/L		101	70 - 130	1	30
2-Butanone (MEK)			250	229		ug/L		92	69 - 120	7	30
2-Hexanone			250	261		ug/L		104	70 - 130	8	20
4-Methyl-2-pentanone			250	256		ug/L		103	68 - 120	10	30
Acetone			250	252		ug/L		101	67 - 120	6	30
Benzene			50.0	50.4		ug/L		101	70 - 130	1	30
Bromodichloromethane			50.0	51.2		ug/L		102	70 - 130	2	30
Bromoform			50.0	47.5		ug/L		95	69 - 129	0	30
Bromomethane			50.0	59.4		ug/L		119	28 - 192	7	30
Carbon disulfide			50.0	46.7		ug/L		93	70 - 130	0	30
Carbon tetrachloride			50.0	49.3		ug/L		99	70 - 130	4	30
Chlorobenzene			50.0	52.7		ug/L		105	70 - 130	3	30
Chloroethane			50.0	52.7		ug/L		105	31 - 213	8	30
Chloroform			50.0	54.1		ug/L		108	70 - 130	2	30
Chloromethane			50.0	51.8		ug/L		104	59 - 127	1	30
cis-1,2-Dichloroethene			50.0	53.4		ug/L		107	70 - 130	2	30
cis-1,3-Dichloropropene			50.0	50.1		ug/L		100	70 - 130	3	20
Cyclohexane			50.0	43.8		ug/L		88	23 - 175	0	30
Dibromochloromethane			50.0	49.8		ug/L		100	70 - 130	2	30
Dichlorodifluoromethane			50.0	46.2		ug/L		92	70 - 130	1	40
Ethylbenzene			50.0	51.4		ug/L		103	70 - 130	0	20
Isopropylbenzene			50.0	51.7		ug/L		103	70 - 130	1	30
m,p-Xylenes			50.0	51.9		ug/L		104	70 - 130	0	30
Methyl acetate			100	92.3		ug/L		92	67 - 120	7	30
Methyl tert-butyl ether			50.0	47.6		ug/L		95	70 - 130	4	30
Methylene Chloride			50.0	51.6		ug/L		103	70 - 130	2	30
o-Xylene			50.0	51.7		ug/L		103	70 - 130	1	30
Styrene			50.0	54.1		ug/L		108	70 - 130	1	30
Tetrachloroethene			50.0	48.3		ug/L		97	70 - 130	2	30
Toluene			50.0	50.4		ug/L		101	70 - 130	2	30
trans-1,2-Dichloroethene			50.0	50.5		ug/L		101	70 - 130	1	30
trans-1,3-Dichloropropene			50.0	54.5		ug/L		109	70 - 130	6	30
Trichloroethene			50.0	50.1		ug/L		100	70 - 130	1	30
Trichlorofluoromethane			50.0	48.7		ug/L		97	63 - 142	6	30
Vinyl chloride			50.0	46.3		ug/L		93	66 - 129	2	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-804647/4
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 804647

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Xylenes, Total			100	104		ug/L		104	70 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*112*		*60 - 124*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
Dibromofluoromethane (Surr)	*115*		*70 - 130*
Toluene-d8 (Surr)	*111*		*70 - 130*

GC/MS VOA

Analysis Batch: 804460

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-28953-1	LC34-DPT0999-038.0-20231018	Total/NA	Water	8260D	
670-28953-2	LC34-DPT0999-032.0-20231018	Total/NA	Water	8260D	
670-28953-3	LC34-DPT0999-025.0-20231018	Total/NA	Water	8260D	
670-28953-4	LC34-DPT0999-018.0-20231018	Total/NA	Water	8260D	
670-28953-5	LC34-DPT0999-013.0-20231018	Total/NA	Water	8260D	
670-28953-6	LC34-DPT0999-008.0-20231018	Total/NA	Water	8260D	
MB 680-804460/7	Method Blank	Total/NA	Water	8260D	
LCS 680-804460/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-804460/4	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 804481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-28953-7	LC34-DPT1000-038.0-20231018	Total/NA	Water	8260D	
670-28953-8	LC34-DPT1000-032.0-20231018	Total/NA	Water	8260D	
670-28953-9	LC34-DPT1000-025.0-20231018	Total/NA	Water	8260D	
670-28953-9 - DL	LC34-DPT1000-025.0-20231018	Total/NA	Water	8260D	
670-28953-10	LC34-DPT1000-018.0-20231018	Total/NA	Water	8260D	
670-28953-11	LC34-DPT1000-013.0-20231018	Total/NA	Water	8260D	
670-28953-12	LC34-DPT1000-008.0-20231018	Total/NA	Water	8260D	
MB 680-804481/7	Method Blank	Total/NA	Water	8260D	
LCS 680-804481/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-804481/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 804647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-28953-13	LC34-DPT1001-038.0-20231018	Total/NA	Water	8260D	
670-28953-14	LC34-DPT1001-032.0-20231019	Total/NA	Water	8260D	
670-28953-15	LC34-DPT1001-025.0-20231019	Total/NA	Water	8260D	
670-28953-16	LC34-DPT1001-018.0-20231019	Total/NA	Water	8260D	
670-28953-17	LC34-DPT1001-013.0-20231019	Total/NA	Water	8260D	
670-28953-18	LC34-DPT1001-008.0-20231019	Total/NA	Water	8260D	
670-28953-19	LC34-DPT1002-038.0-20231019	Total/NA	Water	8260D	
670-28953-20	LC34-DPT1002-032.0-20231019	Total/NA	Water	8260D	
670-28953-21	LC34-DPT1002-025.0-20231019	Total/NA	Water	8260D	
670-28953-22	LC34-DPT1002-018.0-20231019	Total/NA	Water	8260D	
670-28953-23	LC34-DPT1002-013.0-20231019	Total/NA	Water	8260D	
670-28953-24	LC34-DPT1002-008.0-20231019	Total/NA	Water	8260D	
670-28953-25	LC34-DPT1003-038.0-20231019	Total/NA	Water	8260D	
670-28953-26	LC34-DPT1003-032.0-20231019	Total/NA	Water	8260D	
670-28953-27	LC34-DPT1003-025.0-20231019	Total/NA	Water	8260D	
670-28953-28	LC34-DPT1003-018.0-20231019	Total/NA	Water	8260D	
670-28953-29	LC34-DPT1003-013.0-20231019	Total/NA	Water	8260D	
670-28953-30	LC34-DPT1003-008.0-20231019	Total/NA	Water	8260D	
MB 680-804647/7	Method Blank	Total/NA	Water	8260D	
LCS 680-804647/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-804647/4	Lab Control Sample Dup	Total/NA	Water	8260D	

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-28953-1

Client Sample ID: LC34-DPT0999-038.0-20231018
Lab Sample ID: 670-28953-1
Date Collected: 10/18/23 14:05
Matrix: Water
Date Received: 10/20/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	804460	Y1S	EET SAV	10/25/23 13:17

Client Sample ID: LC34-DPT0999-032.0-20231018
Lab Sample ID: 670-28953-2
Date Collected: 10/18/23 14:20
Matrix: Water
Date Received: 10/20/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	804460	Y1S	EET SAV	10/25/23 13:36

Client Sample ID: LC34-DPT0999-025.0-20231018
Lab Sample ID: 670-28953-3
Date Collected: 10/18/23 14:35
Matrix: Water
Date Received: 10/20/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		10	804460	Y1S	EET SAV	10/25/23 13:57

Client Sample ID: LC34-DPT0999-018.0-20231018
Lab Sample ID: 670-28953-4
Date Collected: 10/18/23 14:50
Matrix: Water
Date Received: 10/20/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		2	804460	Y1S	EET SAV	10/25/23 14:18

Client Sample ID: LC34-DPT0999-013.0-20231018
Lab Sample ID: 670-28953-5
Date Collected: 10/18/23 15:05
Matrix: Water
Date Received: 10/20/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	804460	Y1S	EET SAV	10/25/23 14:37

Client Sample ID: LC34-DPT0999-008.0-20231018
Lab Sample ID: 670-28953-6
Date Collected: 10/18/23 15:20
Matrix: Water
Date Received: 10/20/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	804460	Y1S	EET SAV	10/25/23 14:56

Client Sample ID: LC34-DPT1000-038.0-20231018
Lab Sample ID: 670-28953-7
Date Collected: 10/18/23 15:50
Matrix: Water
Date Received: 10/20/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	804481	P1C	EET SAV	10/25/23 14:04

Client Sample ID: LC34-DPT1000-032.0-20231018 — **Lab Sample ID: 670-28953-8**
Date Collected: 10/18/23 16:05 — **Matrix: Water**
Date Received: 10/20/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	804481	P1C	EET SAV	10/25/23 14:25

Client Sample ID: LC34-DPT1000-025.0-20231018 — **Lab Sample ID: 670-28953-9**
Date Collected: 10/18/23 16:20 — **Matrix: Water**
Date Received: 10/20/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		2	804481	P1C	EET SAV	10/25/23 15:30
Total/NA	Analysis	8260D	DL	5	804481	P1C	EET SAV	10/25/23 16:35

Client Sample ID: LC34-DPT1000-018.0-20231018 — **Lab Sample ID: 670-28953-10**
Date Collected: 10/18/23 16:35 — **Matrix: Water**
Date Received: 10/20/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		5	804481	P1C	EET SAV	10/25/23 15:52

Client Sample ID: LC34-DPT1000-013.0-20231018 — **Lab Sample ID: 670-28953-11**
Date Collected: 10/18/23 16:50 — **Matrix: Water**
Date Received: 10/20/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	804481	P1C	EET SAV	10/25/23 14:47

Client Sample ID: LC34-DPT1000-008.0-20231018 — **Lab Sample ID: 670-28953-12**
Date Collected: 10/18/23 17:05 — **Matrix: Water**
Date Received: 10/20/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	804481	P1C	EET SAV	10/25/23 15:09

Client Sample ID: LC34-DPT1001-038.0-20231018 — **Lab Sample ID: 670-28953-13**
Date Collected: 10/19/23 08:05 — **Matrix: Water**
Date Received: 10/20/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	804647	Y1S	EET SAV	10/25/23 21:47

Client Sample ID: LC34-DPT1001-032.0-20231019 — **Lab Sample ID: 670-28953-14**
Date Collected: 10/19/23 08:20 — **Matrix: Water**
Date Received: 10/20/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	804647	Y1S	EET SAV	10/25/23 22:06

Lab Chronicle

Client: Tetra Tech, Inc.
Job ID: 670-28953-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT1001-025.0-20231019
Lab Sample ID: 670-28953-15
Date Collected: 10/19/23 08:35
Matrix: Water
Date Received: 10/20/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		10	804647	Y1S	EET SAV	10/26/23 02:33

Client Sample ID: LC34-DPT1001-018.0-20231019
Lab Sample ID: 670-28953-16
Date Collected: 10/19/23 08:50
Matrix: Water
Date Received: 10/20/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	804647	Y1S	EET SAV	10/25/23 22:25

Client Sample ID: LC34-DPT1001-013.0-20231019
Lab Sample ID: 670-28953-17
Date Collected: 10/19/23 09:05
Matrix: Water
Date Received: 10/20/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	804647	Y1S	EET SAV	10/25/23 22:44

Client Sample ID: LC34-DPT1001-008.0-20231019
Lab Sample ID: 670-28953-18
Date Collected: 10/19/23 09:20
Matrix: Water
Date Received: 10/20/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	804647	Y1S	EET SAV	10/25/23 23:03

Client Sample ID: LC34-DPT1002-038.0-20231019
Lab Sample ID: 670-28953-19
Date Collected: 10/19/23 10:05
Matrix: Water
Date Received: 10/20/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	804647	Y1S	EET SAV	10/25/23 23:21

Client Sample ID: LC34-DPT1002-032.0-20231019
Lab Sample ID: 670-28953-20
Date Collected: 10/19/23 10:20
Matrix: Water
Date Received: 10/20/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	804647	Y1S	EET SAV	10/25/23 23:40

Client Sample ID: LC34-DPT1002-025.0-20231019
Lab Sample ID: 670-28953-21
Date Collected: 10/19/23 10:35
Matrix: Water
Date Received: 10/20/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		10	804647	Y1S	EET SAV	10/26/23 02:54

Lab Chronicle

Client: Tetra Tech, Inc.
Job ID: 670-28953-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT1002-018.0-20231019
Lab Sample ID: 670-28953-22
Date Collected: 10/19/23 10:50
Matrix: Water
Date Received: 10/20/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	804647	Y1S	EET SAV	10/25/23 23:59

Client Sample ID: LC34-DPT1002-013.0-20231019
Lab Sample ID: 670-28953-23
Date Collected: 10/19/23 11:05
Matrix: Water
Date Received: 10/20/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	804647	Y1S	EET SAV	10/26/23 00:18

Client Sample ID: LC34-DPT1002-008.0-20231019
Lab Sample ID: 670-28953-24
Date Collected: 10/19/23 11:20
Matrix: Water
Date Received: 10/20/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	804647	Y1S	EET SAV	10/26/23 00:37

Client Sample ID: LC34-DPT1003-038.0-20231019
Lab Sample ID: 670-28953-25
Date Collected: 10/19/23 12:05
Matrix: Water
Date Received: 10/20/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	804647	Y1S	EET SAV	10/26/23 00:56

Client Sample ID: LC34-DPT1003-032.0-20231019
Lab Sample ID: 670-28953-26
Date Collected: 10/19/23 12:20
Matrix: Water
Date Received: 10/20/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	804647	Y1S	EET SAV	10/26/23 01:15

Client Sample ID: LC34-DPT1003-025.0-20231019
Lab Sample ID: 670-28953-27
Date Collected: 10/19/23 12:35
Matrix: Water
Date Received: 10/20/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		10	804647	Y1S	EET SAV	10/26/23 03:15

Client Sample ID: LC34-DPT1003-018.0-20231019
Lab Sample ID: 670-28953-28
Date Collected: 10/19/23 12:50
Matrix: Water
Date Received: 10/20/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	804647	Y1S	EET SAV	10/26/23 01:34

Lab Chronicle

Client: Tetra Tech, Inc.
Job ID: 670-28953-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT1003-013.0-20231019
Lab Sample ID: 670-28953-29

Date Collected: 10/19/23 13:05
Matrix: Water
Date Received: 10/20/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	804647	Y1S	EET SAV	10/26/23 01:53

Client Sample ID: LC34-DPT1003-008.0-20231019
Lab Sample ID: 670-28953-30

Date Collected: 10/19/23 13:20
Matrix: Water
Date Received: 10/20/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	804647	Y1S	EET SAV	10/26/23 02:12

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: Tetra Tech, Inc.
Job ID: 670-28953-1
Project/Site: NASA KSC LC34 DPT

Laboratory: Eurofins Savannah

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
	AFCEE	SAVLAB	
Alabama	State	41450	06-30-24
ANAB	Dept. of Defense ELAP	L2463	09-22-24
Arkansas DEQ	State	19-015-0	02-01-24
California	State	2939	06-30-24
Florida	NELAP	E87052	06-30-24
Georgia	State	E87052	06-30-24
Georgia (DW)	State	803	06-30-24
Guam	State	19-007R	04-17-24
Hawaii	State	<cert No.>	06-30-24
Illinois	NELAP	200022	11-30-23
Indiana	State	C-GA-02	06-30-24
Iowa	State	353	07-01-25
Kentucky (UST)	State	NA	06-30-24
Louisiana	NELAP	30690	06-30-24
Louisiana (All)	NELAP	30690	06-30-24
Louisiana (DW)	State	LA009	12-31-23
Maine	State	GA00006	09-25-24
Maryland	State	250	12-31-23
Massachusetts	State	M-GA006	06-30-24
Michigan	State	9925	06-30-24
Mississippi	State	<cert No.>	06-30-24
Nebraska	State	NE-OS-7-04	06-30-24
New Jersey	NELAP	GA769	06-30-24
New Mexico	State	GA00006	06-30-24
North Carolina (DW)	State	13701	07-31-24
North Carolina (WW/SW)	State	269	12-31-23
Pennsylvania	NELAP	68-00474	06-30-24
Puerto Rico	State	GA00006	01-01-24
South Carolina	State	98001	06-24-24
Tennessee	State	TN02961	06-30-24
Texas	NELAP	T1047004185	11-30-23
Texas	TCEQ Water Supply	T104704185	06-30-24
USDA	US Federal Programs	P330-18-00313	09-03-24
Virginia	NELAP	460161	06-14-24
Wyoming	State	8TMS-L	06-30-24

Method Summary

Client: Tetra Tech, Inc.
Job ID: 670-28953-1
Project/Site: NASA KSC LC34 DPT

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET SAV
5030B	Purge and Trap	SW846	EET SAV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Sample Summary

Client: Tetra Tech, Inc.
Job ID: 670-28953-1
Project/Site: NASA KSC LC34 DPT

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
670-28953-1	LC34-DPT0999-038.0-20231018	Water	10/18/23 14:05	10/20/23 08:00
670-28953-2	LC34-DPT0999-032.0-20231018	Water	10/18/23 14:20	10/20/23 08:00
670-28953-3	LC34-DPT0999-025.0-20231018	Water	10/18/23 14:35	10/20/23 08:00
670-28953-4	LC34-DPT0999-018.0-20231018	Water	10/18/23 14:50	10/20/23 08:00
670-28953-5	LC34-DPT0999-013.0-20231018	Water	10/18/23 15:05	10/20/23 08:00
670-28953-6	LC34-DPT0999-008.0-20231018	Water	10/18/23 15:20	10/20/23 08:00
670-28953-7	LC34-DPT1000-038.0-20231018	Water	10/18/23 15:50	10/20/23 08:00
670-28953-8	LC34-DPT1000-032.0-20231018	Water	10/18/23 16:05	10/20/23 08:00
670-28953-9	LC34-DPT1000-025.0-20231018	Water	10/18/23 16:20	10/20/23 08:00
670-28953-10	LC34-DPT1000-018.0-20231018	Water	10/18/23 16:35	10/20/23 08:00
670-28953-11	LC34-DPT1000-013.0-20231018	Water	10/18/23 16:50	10/20/23 08:00
670-28953-12	LC34-DPT1000-008.0-20231018	Water	10/18/23 17:05	10/20/23 08:00
670-28953-13	LC34-DPT1001-038.0-20231018	Water	10/19/23 08:05	10/20/23 08:00
670-28953-14	LC34-DPT1001-032.0-20231019	Water	10/19/23 08:20	10/20/23 08:00
670-28953-15	LC34-DPT1001-025.0-20231019	Water	10/19/23 08:35	10/20/23 08:00
670-28953-16	LC34-DPT1001-018.0-20231019	Water	10/19/23 08:50	10/20/23 08:00
670-28953-17	LC34-DPT1001-013.0-20231019	Water	10/19/23 09:05	10/20/23 08:00
670-28953-18	LC34-DPT1001-008.0-20231019	Water	10/19/23 09:20	10/20/23 08:00
670-28953-19	LC34-DPT1002-038.0-20231019	Water	10/19/23 10:05	10/20/23 08:00
670-28953-20	LC34-DPT1002-032.0-20231019	Water	10/19/23 10:20	10/20/23 08:00
670-28953-21	LC34-DPT1002-025.0-20231019	Water	10/19/23 10:35	10/20/23 08:00
670-28953-22	LC34-DPT1002-018.0-20231019	Water	10/19/23 10:50	10/20/23 08:00
670-28953-23	LC34-DPT1002-013.0-20231019	Water	10/19/23 11:05	10/20/23 08:00
670-28953-24	LC34-DPT1002-008.0-20231019	Water	10/19/23 11:20	10/20/23 08:00
670-28953-25	LC34-DPT1003-038.0-20231019	Water	10/19/23 12:05	10/20/23 08:00
670-28953-26	LC34-DPT1003-032.0-20231019	Water	10/19/23 12:20	10/20/23 08:00
670-28953-27	LC34-DPT1003-025.0-20231019	Water	10/19/23 12:35	10/20/23 08:00
670-28953-28	LC34-DPT1003-018.0-20231019	Water	10/19/23 12:50	10/20/23 08:00
670-28953-29	LC34-DPT1003-013.0-20231019	Water	10/19/23 13:05	10/20/23 08:00
670-28953-30	LC34-DPT1003-008.0-20231019	Water	10/19/23 13:20	10/20/23 08:00

Tetra Tech, Inc.

CHAIN OF CUSTODY | NUMBER No. 3785 | PAGE 1 OF 3

PROJECT NO: 112G08985	FACILITY: KSC-LC34	PROJECT MANAGER Mark Sonnet	PHONE NUMBER (412) 921-8622	LABORATORY NAME AND CONTACT: Eurofins — Kaitlin Dylnicki
SAMPLERS (SIGNATURE) -Chuck Sorden		FIELD OPERATIONS LEADER Chuck Sorden	PHONE NUMBER (321) 591-7580	ADDRESS 481 Newburyport Ave.
		CARRIER/WAYBILL NUMBER		CITY, STATE Altamonte Springs, FL

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): G G
PRESERVATIVE USED: HCl/4°C 4°C

TYPE OF ANALYSIS: 8260D-(MOD) NASA LC34 Custom List; 8260D-(MOD) NASA LC34 Custom List

DATE YEAR 2023	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS			COMMENTS
10/18	1405	LC34-DPT0999-038.0-20231018	147	36	40	GW	G	4	X	X	
	1420	LC34-DPT0999-032.0-20231018		30	34						
	1435	LC34-DPT0999-025.0-20231018		23	27						
	1450	LC34-DPT0999-018.0-20231018		10	20						
	1505	LC34-DPT0999-013.0-20231018		11	15						
	1520	LC34-DPT0999-018.0-20231018	147	6	10						
	1550	LC34-DPT1000-038.0-20231018	146	36	40						
	1605	LC34-DPT1000-032.0-20231018		30	34						
	1620	LC34-DPT1000-025.0-20231018		23	27						
	1635	LC34-DPT1000-018.0-20231018		16	20						
	1650	LC34-DPT1000-013.0-20231018		11	15						
10/18	1705	LC34-DPT1000-008.0-20231018	146	6	10						
10/19	0805	LC34-DPT1001-038.0-20231018	145	36	40	GW	G	4	X	X	

670-28953 Chain of Custody

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	10/19/23	1400	1. RECEIVED BY	10-20-23	0800
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS 2.4/1.9

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Tetra Tech, Inc. | CHAIN OF CUSTODY | NUMBER No. 3786 | PAGE 2 OF 3

PROJECT NO: 112G08985	FACILITY: KSC-LC34	PROJECT MANAGER Mark Sonnet	PHONE NUMBER (412) 921-8622	LABORATORY NAME AND CONTACT: Eurofins — Kaitlin Dylnicki
SAMPLERS (SIGNATURE) — Chuck Sorden		FIELD OPERATIONS LEADER Chuck Sorden	PHONE NUMBER (321) 591-7580	ADDRESS 481 Newburyport Ave.
		CARRIER/WAYBILL NUMBER		CITY, STATE Altamonte Springs, FL

STANDARD TAT ☒
RUSH TAT ☐ ☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): G G
PRESERVATIVE USED: HCl/4°C 4°C
TYPE OF ANALYSIS: 8260D-(MOD) NASA LC34 Custom List; 8260D-(MOD) NASA LC34 Custom List

DATE (YEAR 2023)	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS			COMMENTS
10/19	0820	LC34-~~DPT1004~~ DPT1001-032.0-20231019	145	30	34	GW	G	4	X	X	
	0835	LC34-DPT1001-025.0-20231019		23	27						
	0850	LC34-DPT1001-018.0-20231019		16	20						
	0905	LC34-DPT1001-013.0-20231019		11	15						
	0920	LC34-DPT1001-008.0-20231019	145	6	10						
	1005	LC34-DPT1002-038.0-20231019	144	36	40						
	1020	LC34-DPT1002-032.0-20231019		30	34						
	1035	LC34-DPT1002-025.0-20231019		23	27						
	1050	LC34-DPT1002-018.0-20231019		16	20						
	1105	LC34-DPT1002-013.0-20231019		11	15						
	1120	LC34-DPT1002-008.0-20231019	144	6	10						
	1205	LC34-DPT1003-038.0-20231019	143	36	40						
10/19	1220	LC34-DPT1003-032.0-20231019	143	30	34	GW	G	4	X	X	

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	10/19/23	1400	1. RECEIVED BY	10-20-23	0800
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS: 2.4 11.9

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY) 4/02R

Tetra Tech, Inc.

CHAIN OF CUSTODY | NUMBER No. 3779 | PAGE 3 OF 3

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G08985	KSC-LC34	Mark Sonnet	(412) 921-8622	Eurofins- Kaylin Dylnicki
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER	PHONE NUMBER	ADDRESS
- Chuck Sorden		Chuck Sorden	(321) 591-7580	481 Newburyport Ave.
		CARRIER/WAYBILL NUMBER		CITY, STATE
				Altamonte Springs, FL

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2023	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G): G	PRESERVATIVE USED: HCl/4°C	TYPE OF ANALYSIS: 8260D-(MOD) NASA LC34 Custom List	8260D-(MOD) NASA LC34 Custom List	COMMENTS
10/19	1235	LC34-DPT1003-025.0-20231019	143	23	27	GW	G	4	X	X			
↑	1250	LC34-DPT1003-018.0-20231019	↑	16	20	↑	↑	↑	↑	↑			
↓	1305	LC34-DPT1003-013.0-20231019	↓	11	15	↓	↓	↓	↓	↓			
10/19	1320	LC34-DPT1003-008.0-20231019	143	6	10	GW	G	4	X	X			

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	10/19/23	1400	1. RECEIVED BY	10-20-23	0800
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS: 2.4 11.9

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R FORM NO. TtNUS-001 1/13/2023

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 670-28953-1

Login Number: 28953

List Source: Eurofins Orlando

List Number: 1

Creator: Lavardera, Angelina

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 670-28953-1

Login Number: 28953
List Number: 2
Creator: Swafford, Frances E

List Source: Eurofins Savannah
List Creation: 10/24/23 10:25 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.		
Sample custody seals, if present, are intact.		
The cooler or samples do not appear to have been compromised or tampered with.		
Samples were received on ice.		
Cooler Temperature is acceptable.		
Cooler Temperature is recorded.		
COC is present.		
COC is filled out in ink and legible.		
COC is filled out with all pertinent information.		
Is the Field Sampler's name present on COC?		
There are no discrepancies between the containers received and the COC.		
Samples are received within Holding Time (excluding tests with immediate HTs)		
Sample containers have legible labels.		
Containers are not broken or leaking.		
Sample collection date/times are provided.		
Appropriate sample containers are used.		
Sample bottles are completely filled.		
Sample Preservation Verified.		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs		
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").		
Multiphasic samples are not present.		
Samples do not require splitting or compositing.		
Residual Chlorine Checked.		

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Mark Jonnet
Tetra Tech, Inc.
Foster Plaza 7
661 Anderson Drive
Suite 200
Pittsburgh, Pennsylvania 15220-2745

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JOB DESCRIPTION

NASA KSC LC34 DPT

JOB NUMBER

670-29049-1

Eurofins Orlando
481 Newburyport Avenue
Altamonte Springs FL 32701

See page two for job notes and contact information.

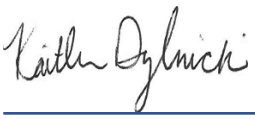
my EOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization



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Authorized for release by
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(407)339-5984

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Definitions/Glossary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-29049-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J1	Estimated value; value may not be accurate. Surrogate recovery outside of criteria.
J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
L	Off-scale high. Actual value is known to be greater than the value given.
U	Indicates that the compound was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 670-29049-1

Laboratory: Eurofins Orlando

Narrative

Job Narrative
Client: Tetra Tech
Client PM: Mark Jonnet
Project: NASA KSC LC34
Project Number: 112G08985
670-29049-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 10/21/2023 9:13 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.5°C and 1.0°C

GC/MS VOA
Method 8260D: The continuing calibration verification (CCV) associated with batch 680-804679 recovered above the upper control limit for Bromomethane, Chloroethane, Dichlorodifluoromethane and Trichlorofluoromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 680-804679/3).

Method 8260D: The continuing calibration verification (CCV) associated with batch 680-804679 recovered outside acceptance criteria, low biased, for 1,2-Dibromo-3-Chloropropane, 2-Butanone (MEK) and Bromoform. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

Method 8260D: The following sample was diluted to bring the concentration of target analytes within the calibration range: LC34-DPT-1005- 025.0-20231019 (670-29049-9). Elevated reporting limits (RLs) are provided.

Method 8260D: The RPD of the laboratory control sample (LCS) and/or laboratory control sample duplicate (LCSD) for analytical batch 680-804679 recovered outside control limits for the following analytes: Chloroethane, Dichlorodifluoromethane and Trichlorofluoromethane.

Method 8260D: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 680-804696 recovered outside control limits for the following analytes: 1,1-Dichloroethene and Chloromethane.

Method 8260D: The continuing calibration verification (CCV) associated with batch 680-804696 recovered above the upper control limit for Chloroethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 680-804696/2).

Method 8260D: The continuing calibration verification (CCV) associated with batch 680-804696 recovered outside acceptance criteria, low biased, for 2-Butanone (MEK), 2-Hexanone, 4-Methyl-2-pentanone, Bromoform and Methyl acetate. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

Method 8260D: The following samples were diluted to bring the concentration of target analytes within the calibration range: LC34-DPT-1004-025.0-20231019 (670-29049-3) and LC34-DPT-1004-018.0-20231019 (670-29049-4). Elevated reporting limits (RLs) are provided.

Job ID: 670-29049-1 (Continued)

Laboratory: Eurofins Orlando (Continued)

Method 8260D: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 680-804696 recovered outside control limits for the following analytes: Chloromethane. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Method 8260D: The following samples were diluted to bring the concentration of target analytes within the calibration range: LC34-DPT-1004-025.0-20231019 (670-29049-3) and LC34-DPT-1004-018.0-20231019 (670-29049-4). Elevated reporting limits (RLs) are provided.

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-804696.

Method 8260D: The continuing calibration verification (CCV) associated with batch 680-805008 recovered outside acceptance criteria, low biased, for 1,2-Dibromo-3-Chloropropane. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

Method 8260D: The continuing calibration verification (CCV) associated with batch 680-805008 recovered above the upper control limit for Chloroethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 680-805008/3).

Method 8260D: The following samples were diluted to bring the concentration of target analytes within the calibration range: LC34-DPT-1009-018.0-20231020 (670-29049-33), LC34-DPT-1009-025.0-20231020 (670-29049-34), LC34-DPT-1009-034.0-20231020 (670-29049-35) and LC34-DPT-1009-038.0-20231020 (670-29049-36). Elevated reporting limits (RLs) are provided.

Method 8260D: The initial calibration verification (ICV) analyzed in batch 680-804446 was outside method criteria for the following analyte(s): Trichlorofluoromethane. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8260D: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 680-805008 recovered outside control limits for the following analytes: Chloroethane.

Method 8260D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 680-805008 were outside control limits. Sample matrix interference is suspected.

Method 8260D: The matrix spike / matrix spike duplicate (MS/MSD) precision for analytical batch 680-805008 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8260D: The continuing calibration verification (CCV) analyzed in batch 680-804880 was outside the method criteria for the following analyte(s): 1,2-Dibromo-3-Chloropropane, Bromoform and Chloroethane. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8260D: The laboratory control sample (LCS) for analytical batch 680-804880 recovered outside control limits for the following analytes: Chloroethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D: The following samples were diluted to bring the concentration of target analytes within the calibration range: LC34-DPT-1006- 025.0-20231020 (670-29049-15), LC34-DPT-1006-018.0-20231020 (670-29049-16), LC34-DPT-1007- 018.0-20231020 (670-29049-22), LC34-DPT-1008-025.0-20231020 (670-29049-27) and LC34-DPT-1008-018.0-20231020 (670-29049-28). Elevated reporting limits (RLs) are provided.

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with

Job ID: 670-29049-1 (Continued)

Laboratory: Eurofins Orlando (Continued)

analytical batch 680-804880.

Method 8260D: Internal standard (ISTD) response for the following sample was outside of acceptance limits: LC34-DPT-1007-025.0-20231020 (670-29049-21-DL). The sample was not re-analyzed due to insufficient volume and comparable results were obtained between the two analyses. The initial analysis was over range for cis-1,2-dichloroethene and vinyl chloride, sample was reanalyzed at a dilution for confirmation. Only the original results have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-29049-1

Client Sample ID: LC34-DPT-1004-038.0-20231019 — Lab Sample ID: 670-29049-1

No Detections.

Client Sample ID: LC34-DPT-1004-032.0-20231019 — Lab Sample ID: 670-29049-2

No Detections.

Client Sample ID: LC34-DPT-1004-025.0-20231019 — Lab Sample ID: 670-29049-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	670		5.0	1.3	ug/L	5		8260D	Total/NA
Vinyl chloride	64		5.0	2.0	ug/L	5		8260D	Total/NA

Client Sample ID: LC34-DPT-1004-018.0-20231019 — Lab Sample ID: 670-29049-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	840		5.0	2.0	ug/L	5		8260D	Total/NA
cis-1,2-Dichloroethene - DL	1100		10	2.5	ug/L	10		8260D	Total/NA

Client Sample ID: LC34-DPT-1004-013.0-20231019 — Lab Sample ID: 670-29049-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	19		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	23		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT-1004-008.0-20231019 — Lab Sample ID: 670-29049-6

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	3.5		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	2.6		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT-1005-038.0-20231019 — Lab Sample ID: 670-29049-7

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.86	I	2.0	0.43	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT-1005-032.0-20231019 — Lab Sample ID: 670-29049-8

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	1.1	I	2.0	0.43	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT-1005- 025.0-20231019 — Lab Sample ID: 670-29049-9

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1400		10	2.5	ug/L	10		8260D	Total/NA
trans-1,2-Dichloroethene	23		10	3.4	ug/L	10		8260D	Total/NA
Vinyl chloride	480		10	4.0	ug/L	10		8260D	Total/NA

Client Sample ID: LC34-DPT-1005-018.0-20231019 — Lab Sample ID: 670-29049-10

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	110		1.0	0.25	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	1.1		1.0	0.34	ug/L	1		8260D	Total/NA
Vinyl chloride	140		1.0	0.40	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-29049-1

Client Sample ID: LC34-DPT-1005- 013.0-20231019 — Lab Sample ID: 670-29049-11

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	9.9		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	6.1		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT-1005-008.0-20231019 — Lab Sample ID: 670-29049-12

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	6.2		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	3.0		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT-1006-038.0-20231020 — Lab Sample ID: 670-29049-13

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.76	I	1.0	0.25	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT-1006- 032.0-20231020 — Lab Sample ID: 670-29049-14

No Detections.

Client Sample ID: LC34-DPT-1006- 025.0-20231020 — Lab Sample ID: 670-29049-15

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1300		10	2.5	ug/L	10		8260D	Total/NA
Toluene	5.4	I	10	2.5	ug/L	10		8260D	Total/NA
trans-1,2-Dichloroethene	20		10	3.4	ug/L	10		8260D	Total/NA
Vinyl chloride	460		10	4.0	ug/L	10		8260D	Total/NA

Client Sample ID: LC34-DPT-1006-018.0-20231020 — Lab Sample ID: 670-29049-16

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	230		2.0	0.50	ug/L	2		8260D	Total/NA
trans-1,2-Dichloroethene	0.96	I	2.0	0.68	ug/L	2		8260D	Total/NA
Vinyl chloride	260		2.0	0.80	ug/L	2		8260D	Total/NA

Client Sample ID: LC34-DPT-1006-013.0-20231020 — Lab Sample ID: 670-29049-17

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	17		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	18		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT-1006-008.0-20231020 — Lab Sample ID: 670-29049-18

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	7.7		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	7.4		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT-1007-038.0-20231020 — Lab Sample ID: 670-29049-19

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.71	I	2.0	0.43	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT-1007-032.0-20231020 — Lab Sample ID: 670-29049-20

No Detections.

Client Sample ID: LC34-DPT-1007-025.0-20231020 — Lab Sample ID: 670-29049-21

Sample Analysis Not Complete.

This Detection Summary does not include radiochemical test results.

Eurofins Orlando

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-29049-1

Client Sample ID: LC34-DPT-1007- 018.0-20231020 — Lab Sample ID: 670-29049-22

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	160		2.0	0.50	ug/L	2		8260D	Total/NA
Vinyl chloride	270		2.0	0.80	ug/L	2		8260D	Total/NA

Client Sample ID: LC34-DPT-1007-013.0-20231020 — Lab Sample ID: 670-29049-23

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	13		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	11		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT-1007-008.0 -20231020 — Lab Sample ID: 670-29049-24

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	6.4		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	5.2		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT-1008-038.0-20231020 — Lab Sample ID: 670-29049-25

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	1.0	I	2.0	0.43	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT-1008-032.0-20231020 — Lab Sample ID: 670-29049-26

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.72	I	2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	84		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	44		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT-1008-025.0-20231020 — Lab Sample ID: 670-29049-27

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2000		20	5.0	ug/L	20		8260D	Total/NA
trans-1,2-Dichloroethene	16	I	20	6.8	ug/L	20		8260D	Total/NA
Vinyl chloride	1100		20	8.0	ug/L	20		8260D	Total/NA

Client Sample ID: LC34-DPT-1008-018.0-20231020 — Lab Sample ID: 670-29049-28

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	58		2.0	0.50	ug/L	2		8260D	Total/NA
Vinyl chloride	180		2.0	0.80	ug/L	2		8260D	Total/NA

Client Sample ID: LC34-DPT-1008-013.0-20231020 — Lab Sample ID: 670-29049-29

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	14		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	15		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT-1008-008.0-20231020 — Lab Sample ID: 670-29049-30

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	9.2		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	7.3		1.0	0.40	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-29049-1

Client Sample ID: LC34-DPT-1009-008.0-20231020 — Lab Sample ID: 670-29049-31

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.5		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	14		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT-1009-013.0-20231020 — Lab Sample ID: 670-29049-32

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	5.2		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	43		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT-1009-018.0-20231020 — Lab Sample ID: 670-29049-33

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	210		5.0	1.3	ug/L	5		8260D	Total/NA
Ethylbenzene	1.6	I	5.0	1.0	ug/L	5		8260D	Total/NA
m,p-Xylenes	7.8		5.0	2.5	ug/L	5		8260D	Total/NA
o-Xylene	4.0	I	5.0	1.3	ug/L	5		8260D	Total/NA
Toluene	7.5		5.0	1.3	ug/L	5		8260D	Total/NA
Vinyl chloride	610		5.0	2.0	ug/L	5		8260D	Total/NA
Xylenes, Total	12		5.0	1.2	ug/L	5		8260D	Total/NA

Client Sample ID: LC34-DPT-1009-025.0-20231020 — Lab Sample ID: 670-29049-34

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	170		5.0	1.3	ug/L	5		8260D	Total/NA
Vinyl chloride - DL	730		10	4.0	ug/L	10		8260D	Total/NA

Client Sample ID: LC34-DPT-1009-034.0-20231020 — Lab Sample ID: 670-29049-35

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	19	I	25	6.8	ug/L	25		8260D	Total/NA
cis-1,2-Dichloroethene	1900		25	6.3	ug/L	25		8260D	Total/NA
Ethylbenzene	23	I	25	5.0	ug/L	25		8260D	Total/NA
m,p-Xylenes	68		25	12	ug/L	25		8260D	Total/NA
o-Xylene	17	I	25	6.5	ug/L	25		8260D	Total/NA
Toluene	39		25	6.3	ug/L	25		8260D	Total/NA
trans-1,2-Dichloroethene	97		25	8.5	ug/L	25		8260D	Total/NA
Vinyl chloride	3300		25	10	ug/L	25		8260D	Total/NA
Xylenes, Total	85		25	5.8	ug/L	25		8260D	Total/NA

Client Sample ID: LC34-DPT-1009-038.0-20231020 — Lab Sample ID: 670-29049-36

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	140	I	200	54	ug/L	200		8260D	Total/NA
cis-1,2-Dichloroethene	33000		200	50	ug/L	200		8260D	Total/NA
trans-1,2-Dichloroethene	560		200	68	ug/L	200		8260D	Total/NA
Vinyl chloride	8000		200	80	ug/L	200		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-29049-1

Client Sample ID: LC34-DPT-1004-038.0-20231019
Date Collected: 10/19/23 14:05
Date Received: 10/21/23 09:13

Lab Sample ID: 670-29049-1
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/26/23 11:29	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/26/23 11:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/26/23 11:29	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/26/23 11:29	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/26/23 11:29	1
1,1-Dichloroethene	0.33	U J3	1.0	0.33	ug/L			10/26/23 11:29	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/26/23 11:29	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/26/23 11:29	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/26/23 11:29	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/26/23 11:29	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/26/23 11:29	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/26/23 11:29	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/26/23 11:29	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/26/23 11:29	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/26/23 11:29	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/26/23 11:29	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/26/23 11:29	1
Acetone	3.7	U	10	3.7	ug/L			10/26/23 11:29	1
Benzene	0.27	U	1.0	0.27	ug/L			10/26/23 11:29	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/26/23 11:29	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/26/23 11:29	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/26/23 11:29	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/26/23 11:29	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/26/23 11:29	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/26/23 11:29	1
Chloroethane	4.6	U J3	5.0	4.6	ug/L			10/26/23 11:29	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/26/23 11:29	1
Chloromethane	0.54	U J3	1.0	0.54	ug/L			10/26/23 11:29	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/26/23 11:29	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/26/23 11:29	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/26/23 11:29	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/26/23 11:29	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/26/23 11:29	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/26/23 11:29	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/26/23 11:29	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/26/23 11:29	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/26/23 11:29	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/26/23 11:29	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/26/23 11:29	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/26/23 11:29	1
Styrene	0.27	U	1.0	0.27	ug/L			10/26/23 11:29	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/26/23 11:29	1
Toluene	0.25	U	1.0	0.25	ug/L			10/26/23 11:29	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/26/23 11:29	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/26/23 11:29	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/26/23 11:29	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/26/23 11:29	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/26/23 11:29	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/26/23 11:29	1

Client Sample ID: LC34-DPT-1004-038.0-20231019

Lab Sample ID: 670-29049-1

Date Collected: 10/19/23 14:05

Matrix: Water

Date Received: 10/21/23 09:13

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*77*		*60 - 124*		*10/26/23 11:29*	*1*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*		*10/26/23 11:29*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*10/26/23 11:29*	*1*
Toluene-d8 (Surr)	*105*		*70 - 130*		*10/26/23 11:29*	*1*

Client Sample ID: LC34-DPT-1004-032.0-20231019

Lab Sample ID: 670-29049-2

Date Collected: 10/19/23 14:20

Matrix: Water

Date Received: 10/21/23 09:13

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/26/23 11:48	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/26/23 11:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/26/23 11:48	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/26/23 11:48	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/26/23 11:48	1
1,1-Dichloroethene	0.33	U J3	1.0	0.33	ug/L			10/26/23 11:48	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/26/23 11:48	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/26/23 11:48	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/26/23 11:48	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/26/23 11:48	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/26/23 11:48	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/26/23 11:48	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/26/23 11:48	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/26/23 11:48	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/26/23 11:48	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/26/23 11:48	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/26/23 11:48	1
Acetone	3.7	U	10	3.7	ug/L			10/26/23 11:48	1
Benzene	0.27	U	1.0	0.27	ug/L			10/26/23 11:48	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/26/23 11:48	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/26/23 11:48	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/26/23 11:48	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/26/23 11:48	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/26/23 11:48	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/26/23 11:48	1
Chloroethane	4.6	U J3	5.0	4.6	ug/L			10/26/23 11:48	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/26/23 11:48	1
Chloromethane	0.54	U J3	1.0	0.54	ug/L			10/26/23 11:48	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/26/23 11:48	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/26/23 11:48	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/26/23 11:48	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/26/23 11:48	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/26/23 11:48	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/26/23 11:48	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/26/23 11:48	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/26/23 11:48	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/26/23 11:48	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/26/23 11:48	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/26/23 11:48	1

Client Sample ID: LC34-DPT-1004-032.0-20231019

Lab Sample ID: 670-29049-2

Date Collected: 10/19/23 14:20

Matrix: Water

Date Received: 10/21/23 09:13

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	0.26	U	1.0	0.26	ug/L			10/26/23 11:48	1
Styrene	0.27	U	1.0	0.27	ug/L			10/26/23 11:48	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/26/23 11:48	1
Toluene	0.25	U	1.0	0.25	ug/L			10/26/23 11:48	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/26/23 11:48	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/26/23 11:48	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/26/23 11:48	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/26/23 11:48	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/26/23 11:48	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/26/23 11:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*82*		*60 - 124*		*10/26/23 11:48*	*1*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*10/26/23 11:48*	*1*
Dibromofluoromethane (Surr)	*105*		*70 - 130*		*10/26/23 11:48*	*1*
Toluene-d8 (Surr)	*106*		*70 - 130*		*10/26/23 11:48*	*1*

Client Sample ID: LC34-DPT-1004-025.0-20231019

Lab Sample ID: 670-29049-3

Date Collected: 10/19/23 14:35

Matrix: Water

Date Received: 10/21/23 09:13

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	5.0	1.1	ug/L			10/26/23 12:47	5
1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	ug/L			10/26/23 12:47	5
1,1,2-Trichloro-1,2,2-trifluoroethane	1.2	U	5.0	1.2	ug/L			10/26/23 12:47	5
1,1,2-Trichloroethane	1.6	U	5.0	1.6	ug/L			10/26/23 12:47	5
1,1-Dichloroethane	1.7	U	5.0	1.7	ug/L			10/26/23 12:47	5
1,1-Dichloroethene	1.7	U J3	5.0	1.7	ug/L			10/26/23 12:47	5
1,2,4-Trichlorobenzene	2.7	U	25	2.7	ug/L			10/26/23 12:47	5
1,2-Dibromo-3-Chloropropane	9.0	U	25	9.0	ug/L			10/26/23 12:47	5
1,2-Dibromoethane (EDB)	1.7	U	5.0	1.7	ug/L			10/26/23 12:47	5
1,2-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/26/23 12:47	5
1,2-Dichloroethane	1.3	U	5.0	1.3	ug/L			10/26/23 12:47	5
1,2-Dichloropropane	1.1	U	5.0	1.1	ug/L			10/26/23 12:47	5
1,3-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/26/23 12:47	5
1,4-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/26/23 12:47	5
2-Butanone (MEK)	32	U	50	32	ug/L			10/26/23 12:47	5
2-Hexanone	16	U	50	16	ug/L			10/26/23 12:47	5
4-Methyl-2-pentanone	14	U	50	14	ug/L			10/26/23 12:47	5
Acetone	19	U	50	19	ug/L			10/26/23 12:47	5
Benzene	1.4	U	5.0	1.4	ug/L			10/26/23 12:47	5
Bromodichloromethane	1.3	U	5.0	1.3	ug/L			10/26/23 12:47	5
Bromoform	3.0	U	5.0	3.0	ug/L			10/26/23 12:47	5
Bromomethane	19	U	25	19	ug/L			10/26/23 12:47	5
Carbon disulfide	2.2	U	10	2.2	ug/L			10/26/23 12:47	5
Carbon tetrachloride	1.5	U	5.0	1.5	ug/L			10/26/23 12:47	5
Chlorobenzene	0.75	U	5.0	0.75	ug/L			10/26/23 12:47	5
Chloroethane	23	U J3	25	23	ug/L			10/26/23 12:47	5
Chloroform	1.4	U	5.0	1.4	ug/L			10/26/23 12:47	5

Client Sample ID: LC34-DPT-1004-025.0-20231019

Lab Sample ID: 670-29049-3

Date Collected: 10/19/23 14:35

Matrix: Water

Date Received: 10/21/23 09:13

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	2.7	U J3	5.0	2.7	ug/L			10/26/23 12:47	5
cis-1,2-Dichloroethene	**670**		5.0	1.3	ug/L			10/26/23 12:47	5
cis-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			10/26/23 12:47	5
Cyclohexane	1.4	U	5.0	1.4	ug/L			10/26/23 12:47	5
Dibromochloromethane	2.0	U	5.0	2.0	ug/L			10/26/23 12:47	5
Dichlorodifluoromethane	1.8	U	5.0	1.8	ug/L			10/26/23 12:47	5
Ethylbenzene	1.0	U	5.0	1.0	ug/L			10/26/23 12:47	5
Isopropylbenzene	1.3	U	5.0	1.3	ug/L			10/26/23 12:47	5
m,p-Xylenes	2.5	U	5.0	2.5	ug/L			10/26/23 12:47	5
Methyl acetate	16	U	25	16	ug/L			10/26/23 12:47	5
Methyl tert-butyl ether	4.1	U	25	4.1	ug/L			10/26/23 12:47	5
Methylene Chloride	16	U	25	16	ug/L			10/26/23 12:47	5
o-Xylene	1.3	U	5.0	1.3	ug/L			10/26/23 12:47	5
Styrene	1.4	U	5.0	1.4	ug/L			10/26/23 12:47	5
Tetrachloroethene	1.8	U	5.0	1.8	ug/L			10/26/23 12:47	5
Toluene	1.3	U	5.0	1.3	ug/L			10/26/23 12:47	5
trans-1,2-Dichloroethene	1.7	U	5.0	1.7	ug/L			10/26/23 12:47	5
trans-1,3-Dichloropropene	1.2	U	5.0	1.2	ug/L			10/26/23 12:47	5
Trichloroethene	1.0	U	5.0	1.0	ug/L			10/26/23 12:47	5
Trichlorofluoromethane	1.7	U	5.0	1.7	ug/L			10/26/23 12:47	5
Vinyl chloride	**64**		5.0	2.0	ug/L			10/26/23 12:47	5
Xylenes, Total	1.2	U	5.0	1.2	ug/L			10/26/23 12:47	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*81*		*60 - 124*		*10/26/23 12:47*	*5*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*10/26/23 12:47*	*5*
Dibromofluoromethane (Surr)	*105*		*70 - 130*		*10/26/23 12:47*	*5*
Toluene-d8 (Surr)	*107*		*70 - 130*		*10/26/23 12:47*	*5*

Client Sample ID: LC34-DPT-1004-018.0-20231019

Lab Sample ID: 670-29049-4

Date Collected: 10/19/23 14:50

Matrix: Water

Date Received: 10/21/23 09:13

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	5.0	1.1	ug/L			10/26/23 13:08	5
1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	ug/L			10/26/23 13:08	5
1,1,2-Trichloro-1,2,2-trifluoroethane	1.2	U	5.0	1.2	ug/L			10/26/23 13:08	5
1,1,2-Trichloroethane	1.6	U	5.0	1.6	ug/L			10/26/23 13:08	5
1,1-Dichloroethane	1.7	U	5.0	1.7	ug/L			10/26/23 13:08	5
1,1-Dichloroethene	1.7	U J3	5.0	1.7	ug/L			10/26/23 13:08	5
1,2,4-Trichlorobenzene	2.7	U	25	2.7	ug/L			10/26/23 13:08	5
1,2-Dibromo-3-Chloropropane	9.0	U	25	9.0	ug/L			10/26/23 13:08	5
1,2-Dibromoethane (EDB)	1.7	U	5.0	1.7	ug/L			10/26/23 13:08	5
1,2-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/26/23 13:08	5
1,2-Dichloroethane	1.3	U	5.0	1.3	ug/L			10/26/23 13:08	5
1,2-Dichloropropane	1.1	U	5.0	1.1	ug/L			10/26/23 13:08	5
1,3-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/26/23 13:08	5
1,4-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/26/23 13:08	5
2-Butanone (MEK)	32	U	50	32	ug/L			10/26/23 13:08	5

Client Sample ID: LC34-DPT-1004-018.0-20231019
Date Collected: 10/19/23 14:50
Date Received: 10/21/23 09:13

Lab Sample ID: 670-29049-4
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	16	U	50	16	ug/L			10/26/23 13:08	5
4-Methyl-2-pentanone	14	U	50	14	ug/L			10/26/23 13:08	5
Acetone	19	U	50	19	ug/L			10/26/23 13:08	5
Benzene	1.4	U	5.0	1.4	ug/L			10/26/23 13:08	5
Bromodichloromethane	1.3	U	5.0	1.3	ug/L			10/26/23 13:08	5
Bromoform	3.0	U	5.0	3.0	ug/L			10/26/23 13:08	5
Bromomethane	19	U	25	19	ug/L			10/26/23 13:08	5
Carbon disulfide	2.2	U	10	2.2	ug/L			10/26/23 13:08	5
Carbon tetrachloride	1.5	U	5.0	1.5	ug/L			10/26/23 13:08	5
Chlorobenzene	0.75	U	5.0	0.75	ug/L			10/26/23 13:08	5
Chloroethane	23	U J3	25	23	ug/L			10/26/23 13:08	5
Chloroform	1.4	U	5.0	1.4	ug/L			10/26/23 13:08	5
Chloromethane	2.7	U J3	5.0	2.7	ug/L			10/26/23 13:08	5
cis-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			10/26/23 13:08	5
Cyclohexane	1.4	U	5.0	1.4	ug/L			10/26/23 13:08	5
Dibromochloromethane	2.0	U	5.0	2.0	ug/L			10/26/23 13:08	5
Dichlorodifluoromethane	1.8	U	5.0	1.8	ug/L			10/26/23 13:08	5
Ethylbenzene	1.0	U	5.0	1.0	ug/L			10/26/23 13:08	5
Isopropylbenzene	1.3	U	5.0	1.3	ug/L			10/26/23 13:08	5
m,p-Xylenes	2.5	U	5.0	2.5	ug/L			10/26/23 13:08	5
Methyl acetate	16	U	25	16	ug/L			10/26/23 13:08	5
Methyl tert-butyl ether	4.1	U	25	4.1	ug/L			10/26/23 13:08	5
Methylene Chloride	16	U	25	16	ug/L			10/26/23 13:08	5
o-Xylene	1.3	U	5.0	1.3	ug/L			10/26/23 13:08	5
Styrene	1.4	U	5.0	1.4	ug/L			10/26/23 13:08	5
Tetrachloroethene	1.8	U	5.0	1.8	ug/L			10/26/23 13:08	5
Toluene	1.3	U	5.0	1.3	ug/L			10/26/23 13:08	5
trans-1,2-Dichloroethene	1.7	U	5.0	1.7	ug/L			10/26/23 13:08	5
trans-1,3-Dichloropropene	1.2	U	5.0	1.2	ug/L			10/26/23 13:08	5
Trichloroethene	1.0	U	5.0	1.0	ug/L			10/26/23 13:08	5
Trichlorofluoromethane	1.7	U	5.0	1.7	ug/L			10/26/23 13:08	5
Vinyl chloride	**840**		5.0	2.0	ug/L			10/26/23 13:08	5
Xylenes, Total	1.2	U	5.0	1.2	ug/L			10/26/23 13:08	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*83*		*60 - 124*		*10/26/23 13:08*	*5*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*10/26/23 13:08*	*5*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*10/26/23 13:08*	*5*
Toluene-d8 (Surr)	*107*		*70 - 130*		*10/26/23 13:08*	*5*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**1100**		10	2.5	ug/L			10/26/23 14:07	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*60 - 124*		*10/26/23 14:07*	*10*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*10/26/23 14:07*	*10*
Dibromofluoromethane (Surr)	*110*		*70 - 130*		*10/26/23 14:07*	*10*
Toluene-d8 (Surr)	*94*		*70 - 130*		*10/26/23 14:07*	*10*

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-29049-1

Client Sample ID: LC34-DPT-1004-013.0-20231019
Date Collected: 10/19/23 15:05
Date Received: 10/21/23 09:13

Lab Sample ID: 670-29049-5
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/26/23 12:06	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/26/23 12:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/26/23 12:06	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/26/23 12:06	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/26/23 12:06	1
1,1-Dichloroethene	0.33	U J3	1.0	0.33	ug/L			10/26/23 12:06	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/26/23 12:06	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/26/23 12:06	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/26/23 12:06	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/26/23 12:06	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/26/23 12:06	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/26/23 12:06	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/26/23 12:06	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/26/23 12:06	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/26/23 12:06	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/26/23 12:06	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/26/23 12:06	1
Acetone	3.7	U	10	3.7	ug/L			10/26/23 12:06	1
Benzene	0.27	U	1.0	0.27	ug/L			10/26/23 12:06	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/26/23 12:06	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/26/23 12:06	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/26/23 12:06	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/26/23 12:06	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/26/23 12:06	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/26/23 12:06	1
Chloroethane	4.6	U J3	5.0	4.6	ug/L			10/26/23 12:06	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/26/23 12:06	1
Chloromethane	0.54	U J3	1.0	0.54	ug/L			10/26/23 12:06	1
cis-1,2-Dichloroethene	**19**		1.0	0.25	ug/L			10/26/23 12:06	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/26/23 12:06	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/26/23 12:06	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/26/23 12:06	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/26/23 12:06	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/26/23 12:06	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/26/23 12:06	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/26/23 12:06	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/26/23 12:06	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/26/23 12:06	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/26/23 12:06	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/26/23 12:06	1
Styrene	0.27	U	1.0	0.27	ug/L			10/26/23 12:06	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/26/23 12:06	1
Toluene	0.25	U	1.0	0.25	ug/L			10/26/23 12:06	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/26/23 12:06	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/26/23 12:06	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/26/23 12:06	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/26/23 12:06	1
Vinyl chloride	**23**		1.0	0.40	ug/L			10/26/23 12:06	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/26/23 12:06	1

Client Sample ID: LC34-DPT-1004-013.0-20231019
Lab Sample ID: 670-29049-5
Date Collected: 10/19/23 15:05
Matrix: Water
Date Received: 10/21/23 09:13

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	81		60 - 124		10/26/23 12:06	1
4-Bromofluorobenzene (Surr)	102		70 - 130		10/26/23 12:06	1
Dibromofluoromethane (Surr)	106		70 - 130		10/26/23 12:06	1
Toluene-d8 (Surr)	107		70 - 130		10/26/23 12:06	1

Client Sample ID: LC34-DPT-1004-008.0-20231019
Lab Sample ID: 670-29049-6
Date Collected: 10/19/23 15:20
Matrix: Water
Date Received: 10/21/23 09:13

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/26/23 12:25	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/26/23 12:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/26/23 12:25	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/26/23 12:25	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/26/23 12:25	1
1,1-Dichloroethene	0.33	U J3	1.0	0.33	ug/L			10/26/23 12:25	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/26/23 12:25	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/26/23 12:25	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/26/23 12:25	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/26/23 12:25	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/26/23 12:25	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/26/23 12:25	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/26/23 12:25	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/26/23 12:25	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/26/23 12:25	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/26/23 12:25	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/26/23 12:25	1
Acetone	3.7	U	10	3.7	ug/L			10/26/23 12:25	1
Benzene	0.27	U	1.0	0.27	ug/L			10/26/23 12:25	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/26/23 12:25	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/26/23 12:25	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/26/23 12:25	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/26/23 12:25	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/26/23 12:25	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/26/23 12:25	1
Chloroethane	4.6	U J3	5.0	4.6	ug/L			10/26/23 12:25	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/26/23 12:25	1
Chloromethane	0.54	U J3	1.0	0.54	ug/L			10/26/23 12:25	1
cis-1,2-Dichloroethene	**3.5**		1.0	0.25	ug/L			10/26/23 12:25	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/26/23 12:25	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/26/23 12:25	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/26/23 12:25	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/26/23 12:25	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/26/23 12:25	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/26/23 12:25	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/26/23 12:25	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/26/23 12:25	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/26/23 12:25	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/26/23 12:25	1

Client: Tetra Tech, Inc.
Job ID: 670-29049-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT-1004-008.0-20231019
Lab Sample ID: 670-29049-6
Date Collected: 10/19/23 15:20
Matrix: Water
Date Received: 10/21/23 09:13

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	0.26	U	1.0	0.26	ug/L			10/26/23 12:25	1
Styrene	0.27	U	1.0	0.27	ug/L			10/26/23 12:25	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/26/23 12:25	1
Toluene	0.25	U	1.0	0.25	ug/L			10/26/23 12:25	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/26/23 12:25	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/26/23 12:25	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/26/23 12:25	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/26/23 12:25	1
Vinyl chloride	**2.6**		1.0	0.40	ug/L			10/26/23 12:25	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/26/23 12:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*81*		*60 - 124*		*10/26/23 12:25*	*1*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*10/26/23 12:25*	*1*
Dibromofluoromethane (Surr)	*107*		*70 - 130*		*10/26/23 12:25*	*1*
Toluene-d8 (Surr)	*106*		*70 - 130*		*10/26/23 12:25*	*1*

Client Sample ID: LC34-DPT-1005-038.0-20231019
Lab Sample ID: 670-29049-7
Date Collected: 10/19/23 16:00
Matrix: Water
Date Received: 10/21/23 09:13

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/26/23 10:52	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/26/23 10:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/26/23 10:52	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/26/23 10:52	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/26/23 10:52	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/26/23 10:52	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/26/23 10:52	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/26/23 10:52	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/26/23 10:52	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/26/23 10:52	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/26/23 10:52	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/26/23 10:52	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/26/23 10:52	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/26/23 10:52	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/26/23 10:52	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/26/23 10:52	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/26/23 10:52	1
Acetone	3.7	U	10	3.7	ug/L			10/26/23 10:52	1
Benzene	0.27	U	1.0	0.27	ug/L			10/26/23 10:52	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/26/23 10:52	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/26/23 10:52	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/26/23 10:52	1
Carbon disulfide	**0.86**	**I**	2.0	0.43	ug/L			10/26/23 10:52	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/26/23 10:52	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/26/23 10:52	1
Chloroethane	4.6	U J3	5.0	4.6	ug/L			10/26/23 10:52	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/26/23 10:52	1

Client Sample ID: LC34-DPT-1005-038.0-20231019

Lab Sample ID: 670-29049-7

Date Collected: 10/19/23 16:00

Matrix: Water

Date Received: 10/21/23 09:13

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	0.54	U	1.0	0.54	ug/L			10/26/23 10:52	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/26/23 10:52	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/26/23 10:52	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/26/23 10:52	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/26/23 10:52	1
Dichlorodifluoromethane	0.36	U J3	1.0	0.36	ug/L			10/26/23 10:52	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/26/23 10:52	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/26/23 10:52	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/26/23 10:52	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/26/23 10:52	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/26/23 10:52	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/26/23 10:52	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/26/23 10:52	1
Styrene	0.27	U	1.0	0.27	ug/L			10/26/23 10:52	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/26/23 10:52	1
Toluene	0.25	U	1.0	0.25	ug/L			10/26/23 10:52	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/26/23 10:52	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/26/23 10:52	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/26/23 10:52	1
Trichlorofluoromethane	0.33	U J3	1.0	0.33	ug/L			10/26/23 10:52	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/26/23 10:52	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/26/23 10:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 124*		*10/26/23 10:52*	*1*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*10/26/23 10:52*	*1*
Dibromofluoromethane (Surr)	*105*		*70 - 130*		*10/26/23 10:52*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*10/26/23 10:52*	*1*

Client Sample ID: LC34-DPT-1005-032.0-20231019

Lab Sample ID: 670-29049-8

Date Collected: 10/19/23 16:15

Matrix: Water

Date Received: 10/21/23 09:13

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/26/23 11:11	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/26/23 11:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/26/23 11:11	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/26/23 11:11	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/26/23 11:11	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/26/23 11:11	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/26/23 11:11	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/26/23 11:11	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/26/23 11:11	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/26/23 11:11	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/26/23 11:11	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/26/23 11:11	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/26/23 11:11	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/26/23 11:11	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/26/23 11:11	1

Client Sample ID: LC34-DPT-1005-032.0-20231019

Lab Sample ID: 670-29049-8

Date Collected: 10/19/23 16:15

Matrix: Water

Date Received: 10/21/23 09:13

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	3.2	U	10	3.2	ug/L			10/26/23 11:11	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/26/23 11:11	1
Acetone	3.7	U	10	3.7	ug/L			10/26/23 11:11	1
Benzene	0.27	U	1.0	0.27	ug/L			10/26/23 11:11	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/26/23 11:11	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/26/23 11:11	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/26/23 11:11	1
Carbon disulfide	**1.1**	**I**	2.0	0.43	ug/L			10/26/23 11:11	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/26/23 11:11	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/26/23 11:11	1
Chloroethane	4.6	U J3	5.0	4.6	ug/L			10/26/23 11:11	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/26/23 11:11	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/26/23 11:11	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/26/23 11:11	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/26/23 11:11	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/26/23 11:11	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/26/23 11:11	1
Dichlorodifluoromethane	0.36	U J3	1.0	0.36	ug/L			10/26/23 11:11	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/26/23 11:11	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/26/23 11:11	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/26/23 11:11	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/26/23 11:11	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/26/23 11:11	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/26/23 11:11	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/26/23 11:11	1
Styrene	0.27	U	1.0	0.27	ug/L			10/26/23 11:11	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/26/23 11:11	1
Toluene	0.25	U	1.0	0.25	ug/L			10/26/23 11:11	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/26/23 11:11	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/26/23 11:11	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/26/23 11:11	1
Trichlorofluoromethane	0.33	U J3	1.0	0.33	ug/L			10/26/23 11:11	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/26/23 11:11	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/26/23 11:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 124*		*10/26/23 11:11*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*10/26/23 11:11*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*10/26/23 11:11*	*1*
Toluene-d8 (Surr)	*94*		*70 - 130*		*10/26/23 11:11*	*1*

Client Sample ID: LC34-DPT-1005- 025.0-20231019

Lab Sample ID: 670-29049-9

Date Collected: 10/19/23 16:30

Matrix: Water

Date Received: 10/21/23 09:13

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2.1	U	10	2.1	ug/L			10/26/23 12:26	10
1,1,2,2-Tetrachloroethane	4.0	U	10	4.0	ug/L			10/26/23 12:26	10
1,1,2-Trichloro-1,2,2-trifluoroethane	2.3	U	10	2.3	ug/L			10/26/23 12:26	10

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-29049-1

Client Sample ID: LC34-DPT-1005- 025.0-20231019
Date Collected: 10/19/23 16:30
Date Received: 10/21/23 09:13

Lab Sample ID: 670-29049-9
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	3.2	U	10	3.2	ug/L			10/26/23 12:26	10
1,1-Dichloroethane	3.3	U	10	3.3	ug/L			10/26/23 12:26	10
1,1-Dichloroethene	3.3	U	10	3.3	ug/L			10/26/23 12:26	10
1,2,4-Trichlorobenzene	5.3	U	50	5.3	ug/L			10/26/23 12:26	10
1,2-Dibromo-3-Chloropropane	18	U	50	18	ug/L			10/26/23 12:26	10
1,2-Dibromoethane (EDB)	3.3	U	10	3.3	ug/L			10/26/23 12:26	10
1,2-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/26/23 12:26	10
1,2-Dichloroethane	2.5	U	10	2.5	ug/L			10/26/23 12:26	10
1,2-Dichloropropane	2.2	U	10	2.2	ug/L			10/26/23 12:26	10
1,3-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/26/23 12:26	10
1,4-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/26/23 12:26	10
2-Butanone (MEK)	64	U	100	64	ug/L			10/26/23 12:26	10
2-Hexanone	32	U	100	32	ug/L			10/26/23 12:26	10
4-Methyl-2-pentanone	27	U	100	27	ug/L			10/26/23 12:26	10
Acetone	37	U	100	37	ug/L			10/26/23 12:26	10
Benzene	2.7	U	10	2.7	ug/L			10/26/23 12:26	10
Bromodichloromethane	2.5	U	10	2.5	ug/L			10/26/23 12:26	10
Bromoform	5.9	U	10	5.9	ug/L			10/26/23 12:26	10
Bromomethane	37	U	50	37	ug/L			10/26/23 12:26	10
Carbon disulfide	4.3	U	20	4.3	ug/L			10/26/23 12:26	10
Carbon tetrachloride	3.0	U	10	3.0	ug/L			10/26/23 12:26	10
Chlorobenzene	1.5	U	10	1.5	ug/L			10/26/23 12:26	10
Chloroethane	46	U J3	50	46	ug/L			10/26/23 12:26	10
Chloroform	2.7	U	10	2.7	ug/L			10/26/23 12:26	10
Chloromethane	5.4	U	10	5.4	ug/L			10/26/23 12:26	10
cis-1,2-Dichloroethene	**1400**		10	2.5	ug/L			10/26/23 12:26	10
cis-1,3-Dichloropropene	2.6	U	10	2.6	ug/L			10/26/23 12:26	10
Cyclohexane	2.8	U	10	2.8	ug/L			10/26/23 12:26	10
Dibromochloromethane	3.9	U	10	3.9	ug/L			10/26/23 12:26	10
Dichlorodifluoromethane	3.6	U J3	10	3.6	ug/L			10/26/23 12:26	10
Ethylbenzene	2.0	U	10	2.0	ug/L			10/26/23 12:26	10
Isopropylbenzene	2.6	U	10	2.6	ug/L			10/26/23 12:26	10
m,p-Xylenes	4.9	U	10	4.9	ug/L			10/26/23 12:26	10
Methyl acetate	32	U	50	32	ug/L			10/26/23 12:26	10
Methyl tert-butyl ether	8.1	U	50	8.1	ug/L			10/26/23 12:26	10
Methylene Chloride	32	U	50	32	ug/L			10/26/23 12:26	10
o-Xylene	2.6	U	10	2.6	ug/L			10/26/23 12:26	10
Styrene	2.7	U	10	2.7	ug/L			10/26/23 12:26	10
Tetrachloroethene	3.5	U	10	3.5	ug/L			10/26/23 12:26	10
Toluene	2.5	U	10	2.5	ug/L			10/26/23 12:26	10
trans-1,2-Dichloroethene	**23**		10	3.4	ug/L			10/26/23 12:26	10
trans-1,3-Dichloropropene	2.3	U	10	2.3	ug/L			10/26/23 12:26	10
Trichloroethene	2.0	U	10	2.0	ug/L			10/26/23 12:26	10
Trichlorofluoromethane	3.3	U J3	10	3.3	ug/L			10/26/23 12:26	10
Vinyl chloride	**480**		10	4.0	ug/L			10/26/23 12:26	10
Xylenes, Total	2.3	U	10	2.3	ug/L			10/26/23 12:26	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 124*		*10/26/23 12:26*	*10*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*10/26/23 12:26*	*10*

Client Sample ID: LC34-DPT-1005- 025.0-20231019

Lab Sample ID: 670-29049-9

Date Collected: 10/19/23 16:30

Matrix: Water

Date Received: 10/21/23 09:13

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*10/26/23 12:26*	*10*
Toluene-d8 (Surr)	*99*		*70 - 130*		*10/26/23 12:26*	*10*

Client Sample ID: LC34-DPT-1005-018.0-20231019

Lab Sample ID: 670-29049-10

Date Collected: 10/19/23 16:45

Matrix: Water

Date Received: 10/21/23 09:13

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/26/23 11:30	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/26/23 11:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/26/23 11:30	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/26/23 11:30	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/26/23 11:30	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/26/23 11:30	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/26/23 11:30	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/26/23 11:30	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/26/23 11:30	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/26/23 11:30	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/26/23 11:30	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/26/23 11:30	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/26/23 11:30	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/26/23 11:30	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/26/23 11:30	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/26/23 11:30	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/26/23 11:30	1
Acetone	3.7	U	10	3.7	ug/L			10/26/23 11:30	1
Benzene	0.27	U	1.0	0.27	ug/L			10/26/23 11:30	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/26/23 11:30	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/26/23 11:30	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/26/23 11:30	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/26/23 11:30	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/26/23 11:30	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/26/23 11:30	1
Chloroethane	4.6	U J3	5.0	4.6	ug/L			10/26/23 11:30	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/26/23 11:30	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/26/23 11:30	1
cis-1,2-Dichloroethene	**110**		1.0	0.25	ug/L			10/26/23 11:30	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/26/23 11:30	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/26/23 11:30	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/26/23 11:30	1
Dichlorodifluoromethane	0.36	U J3	1.0	0.36	ug/L			10/26/23 11:30	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/26/23 11:30	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/26/23 11:30	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/26/23 11:30	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/26/23 11:30	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/26/23 11:30	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/26/23 11:30	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/26/23 11:30	1

Client Sample ID: LC34-DPT-1005-018.0-20231019

Lab Sample ID: 670-29049-10

Date Collected: 10/19/23 16:45

Matrix: Water

Date Received: 10/21/23 09:13

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.27	U	1.0	0.27	ug/L			10/26/23 11:30	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/26/23 11:30	1
Toluene	0.25	U	1.0	0.25	ug/L			10/26/23 11:30	1
trans-1,2-Dichloroethene	**1.1**		1.0	0.34	ug/L			10/26/23 11:30	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/26/23 11:30	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/26/23 11:30	1
Trichlorofluoromethane	0.33	U J3	1.0	0.33	ug/L			10/26/23 11:30	1
Vinyl chloride	**140**		1.0	0.40	ug/L			10/26/23 11:30	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/26/23 11:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 124*		*10/26/23 11:30*	*1*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*10/26/23 11:30*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*10/26/23 11:30*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*10/26/23 11:30*	*1*

Client Sample ID: LC34-DPT-1005- 013.0-20231019

Lab Sample ID: 670-29049-11

Date Collected: 10/19/23 17:00

Matrix: Water

Date Received: 10/21/23 09:13

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/26/23 11:49	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/26/23 11:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/26/23 11:49	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/26/23 11:49	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/26/23 11:49	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/26/23 11:49	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/26/23 11:49	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/26/23 11:49	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/26/23 11:49	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/26/23 11:49	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/26/23 11:49	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/26/23 11:49	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/26/23 11:49	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/26/23 11:49	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/26/23 11:49	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/26/23 11:49	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/26/23 11:49	1
Acetone	3.7	U	10	3.7	ug/L			10/26/23 11:49	1
Benzene	0.27	U	1.0	0.27	ug/L			10/26/23 11:49	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/26/23 11:49	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/26/23 11:49	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/26/23 11:49	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/26/23 11:49	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/26/23 11:49	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/26/23 11:49	1
Chloroethane	4.6	U J3	5.0	4.6	ug/L			10/26/23 11:49	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/26/23 11:49	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/26/23 11:49	1

Client Sample ID: LC34-DPT-1005- 013.0-20231019

Lab Sample ID: 670-29049-11

Date Collected: 10/19/23 17:00

Matrix: Water

Date Received: 10/21/23 09:13

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**9.9**		1.0	0.25	ug/L			10/26/23 11:49	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/26/23 11:49	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/26/23 11:49	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/26/23 11:49	1
Dichlorodifluoromethane	0.36	U J3	1.0	0.36	ug/L			10/26/23 11:49	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/26/23 11:49	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/26/23 11:49	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/26/23 11:49	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/26/23 11:49	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/26/23 11:49	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/26/23 11:49	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/26/23 11:49	1
Styrene	0.27	U	1.0	0.27	ug/L			10/26/23 11:49	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/26/23 11:49	1
Toluene	0.25	U	1.0	0.25	ug/L			10/26/23 11:49	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/26/23 11:49	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/26/23 11:49	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/26/23 11:49	1
Trichlorofluoromethane	0.33	U J3	1.0	0.33	ug/L			10/26/23 11:49	1
Vinyl chloride	**6.1**		1.0	0.40	ug/L			10/26/23 11:49	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/26/23 11:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 124*		*10/26/23 11:49*	*1*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*10/26/23 11:49*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*10/26/23 11:49*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*10/26/23 11:49*	*1*

Client Sample ID: LC34-DPT-1005-008.0-20231019

Lab Sample ID: 670-29049-12

Date Collected: 10/19/23 17:15

Matrix: Water

Date Received: 10/21/23 09:13

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/26/23 12:07	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/26/23 12:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/26/23 12:07	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/26/23 12:07	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/26/23 12:07	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/26/23 12:07	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/26/23 12:07	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/26/23 12:07	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/26/23 12:07	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/26/23 12:07	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/26/23 12:07	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/26/23 12:07	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/26/23 12:07	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/26/23 12:07	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/26/23 12:07	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/26/23 12:07	1

Client Sample ID: LC34-DPT-1005-008.0-20231019

Lab Sample ID: 670-29049-12

Date Collected: 10/19/23 17:15

Matrix: Water

Date Received: 10/21/23 09:13

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/26/23 12:07	1
Acetone	3.7	U	10	3.7	ug/L			10/26/23 12:07	1
Benzene	0.27	U	1.0	0.27	ug/L			10/26/23 12:07	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/26/23 12:07	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/26/23 12:07	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/26/23 12:07	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/26/23 12:07	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/26/23 12:07	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/26/23 12:07	1
Chloroethane	4.6	U J3	5.0	4.6	ug/L			10/26/23 12:07	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/26/23 12:07	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/26/23 12:07	1
cis-1,2-Dichloroethene	**6.2**		1.0	0.25	ug/L			10/26/23 12:07	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/26/23 12:07	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/26/23 12:07	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/26/23 12:07	1
Dichlorodifluoromethane	0.36	U J3	1.0	0.36	ug/L			10/26/23 12:07	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/26/23 12:07	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/26/23 12:07	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/26/23 12:07	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/26/23 12:07	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/26/23 12:07	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/26/23 12:07	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/26/23 12:07	1
Styrene	0.27	U	1.0	0.27	ug/L			10/26/23 12:07	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/26/23 12:07	1
Toluene	0.25	U	1.0	0.25	ug/L			10/26/23 12:07	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/26/23 12:07	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/26/23 12:07	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/26/23 12:07	1
Trichlorofluoromethane	0.33	U J3	1.0	0.33	ug/L			10/26/23 12:07	1
Vinyl chloride	**3.0**		1.0	0.40	ug/L			10/26/23 12:07	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/26/23 12:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 124*		*10/26/23 12:07*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*10/26/23 12:07*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*10/26/23 12:07*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*10/26/23 12:07*	*1*

Client Sample ID: LC34-DPT-1006-038.0-20231020

Lab Sample ID: 670-29049-13

Date Collected: 10/20/23 08:05

Matrix: Water

Date Received: 10/21/23 09:13

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/26/23 21:58	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/26/23 21:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/26/23 21:58	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/26/23 21:58	1

Client Sample ID: LC34-DPT-1006-038.0-20231020
Date Collected: 10/20/23 08:05
Date Received: 10/21/23 09:13

Lab Sample ID: 670-29049-13
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/26/23 21:58	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/26/23 21:58	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/26/23 21:58	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/26/23 21:58	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/26/23 21:58	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/26/23 21:58	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/26/23 21:58	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/26/23 21:58	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/26/23 21:58	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/26/23 21:58	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/26/23 21:58	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/26/23 21:58	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/26/23 21:58	1
Acetone	3.7	U	10	3.7	ug/L			10/26/23 21:58	1
Benzene	0.27	U	1.0	0.27	ug/L			10/26/23 21:58	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/26/23 21:58	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/26/23 21:58	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/26/23 21:58	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/26/23 21:58	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/26/23 21:58	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/26/23 21:58	1
Chloroethane	4.6	U J3	5.0	4.6	ug/L			10/26/23 21:58	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/26/23 21:58	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/26/23 21:58	1
cis-1,2-Dichloroethene	**0.76**	**I**	1.0	0.25	ug/L			10/26/23 21:58	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/26/23 21:58	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/26/23 21:58	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/26/23 21:58	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/26/23 21:58	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/26/23 21:58	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/26/23 21:58	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/26/23 21:58	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/26/23 21:58	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/26/23 21:58	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/26/23 21:58	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/26/23 21:58	1
Styrene	0.27	U	1.0	0.27	ug/L			10/26/23 21:58	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/26/23 21:58	1
Toluene	0.25	U	1.0	0.25	ug/L			10/26/23 21:58	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/26/23 21:58	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/26/23 21:58	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/26/23 21:58	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/26/23 21:58	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/26/23 21:58	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/26/23 21:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*60 - 124*		*10/26/23 21:58*	*1*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*10/26/23 21:58*	*1*
Dibromofluoromethane (Surr)	*95*		*70 - 130*		*10/26/23 21:58*	*1*

Client Sample ID: LC34-DPT-1006-038.0-20231020

Lab Sample ID: 670-29049-13

Date Collected: 10/20/23 08:05

Matrix: Water

Date Received: 10/21/23 09:13

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*70 - 130*		*10/26/23 21:58*	*1*

Client Sample ID: LC34-DPT-1006- 032.0-20231020

Lab Sample ID: 670-29049-14

Date Collected: 10/20/23 08:20

Matrix: Water

Date Received: 10/21/23 09:13

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/26/23 22:19	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/26/23 22:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/26/23 22:19	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/26/23 22:19	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/26/23 22:19	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/26/23 22:19	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/26/23 22:19	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/26/23 22:19	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/26/23 22:19	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/26/23 22:19	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/26/23 22:19	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/26/23 22:19	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/26/23 22:19	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/26/23 22:19	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/26/23 22:19	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/26/23 22:19	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/26/23 22:19	1
Acetone	3.7	U	10	3.7	ug/L			10/26/23 22:19	1
Benzene	0.27	U	1.0	0.27	ug/L			10/26/23 22:19	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/26/23 22:19	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/26/23 22:19	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/26/23 22:19	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/26/23 22:19	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/26/23 22:19	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/26/23 22:19	1
Chloroethane	4.6	U J3	5.0	4.6	ug/L			10/26/23 22:19	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/26/23 22:19	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/26/23 22:19	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/26/23 22:19	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/26/23 22:19	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/26/23 22:19	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/26/23 22:19	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/26/23 22:19	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/26/23 22:19	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/26/23 22:19	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/26/23 22:19	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/26/23 22:19	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/26/23 22:19	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/26/23 22:19	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/26/23 22:19	1
Styrene	0.27	U	1.0	0.27	ug/L			10/26/23 22:19	1

Client Sample ID: LC34-DPT-1006- 032.0-20231020

Lab Sample ID: 670-29049-14

Date Collected: 10/20/23 08:20
Matrix: Water
Date Received: 10/21/23 09:13

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/26/23 22:19	1
Toluene	0.25	U	1.0	0.25	ug/L			10/26/23 22:19	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/26/23 22:19	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/26/23 22:19	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/26/23 22:19	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/26/23 22:19	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/26/23 22:19	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/26/23 22:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*60 - 124*		*10/26/23 22:19*	*1*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*		*10/26/23 22:19*	*1*
Dibromofluoromethane (Surr)	*94*		*70 - 130*		*10/26/23 22:19*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*10/26/23 22:19*	*1*

Client Sample ID: LC34-DPT-1006- 025.0-20231020

Lab Sample ID: 670-29049-15

Date Collected: 10/20/23 08:35
Matrix: Water
Date Received: 10/21/23 09:13

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2.1	U	10	2.1	ug/L			10/27/23 04:04	10
1,1,2,2-Tetrachloroethane	4.0	U	10	4.0	ug/L			10/27/23 04:04	10
1,1,2-Trichloro-1,2,2-trifluoroethane	2.3	U	10	2.3	ug/L			10/27/23 04:04	10
1,1,2-Trichloroethane	3.2	U	10	3.2	ug/L			10/27/23 04:04	10
1,1-Dichloroethane	3.3	U	10	3.3	ug/L			10/27/23 04:04	10
1,1-Dichloroethene	3.3	U	10	3.3	ug/L			10/27/23 04:04	10
1,2,4-Trichlorobenzene	5.3	U	50	5.3	ug/L			10/27/23 04:04	10
1,2-Dibromo-3-Chloropropane	18	U	50	18	ug/L			10/27/23 04:04	10
1,2-Dibromoethane (EDB)	3.3	U	10	3.3	ug/L			10/27/23 04:04	10
1,2-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/27/23 04:04	10
1,2-Dichloroethane	2.5	U	10	2.5	ug/L			10/27/23 04:04	10
1,2-Dichloropropane	2.2	U	10	2.2	ug/L			10/27/23 04:04	10
1,3-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/27/23 04:04	10
1,4-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/27/23 04:04	10
2-Butanone (MEK)	64	U	100	64	ug/L			10/27/23 04:04	10
2-Hexanone	32	U	100	32	ug/L			10/27/23 04:04	10
4-Methyl-2-pentanone	27	U	100	27	ug/L			10/27/23 04:04	10
Acetone	37	U	100	37	ug/L			10/27/23 04:04	10
Benzene	2.7	U	10	2.7	ug/L			10/27/23 04:04	10
Bromodichloromethane	2.5	U	10	2.5	ug/L			10/27/23 04:04	10
Bromoform	5.9	U	10	5.9	ug/L			10/27/23 04:04	10
Bromomethane	37	U	50	37	ug/L			10/27/23 04:04	10
Carbon disulfide	4.3	U	20	4.3	ug/L			10/27/23 04:04	10
Carbon tetrachloride	3.0	U	10	3.0	ug/L			10/27/23 04:04	10
Chlorobenzene	1.5	U	10	1.5	ug/L			10/27/23 04:04	10
Chloroethane	46	U J3	50	46	ug/L			10/27/23 04:04	10
Chloroform	2.7	U	10	2.7	ug/L			10/27/23 04:04	10
Chloromethane	5.4	U	10	5.4	ug/L			10/27/23 04:04	10
cis-1,2-Dichloroethene	**1300**		10	2.5	ug/L			10/27/23 04:04	10

Client Sample ID: LC34-DPT-1006- 025.0-20231020

Lab Sample ID: 670-29049-15

Date Collected: 10/20/23 08:35

Matrix: Water

Date Received: 10/21/23 09:13

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	2.6	U	10	2.6	ug/L			10/27/23 04:04	10
Cyclohexane	2.8	U	10	2.8	ug/L			10/27/23 04:04	10
Dibromochloromethane	3.9	U	10	3.9	ug/L			10/27/23 04:04	10
Dichlorodifluoromethane	3.6	U	10	3.6	ug/L			10/27/23 04:04	10
Ethylbenzene	2.0	U	10	2.0	ug/L			10/27/23 04:04	10
Isopropylbenzene	2.6	U	10	2.6	ug/L			10/27/23 04:04	10
m,p-Xylenes	4.9	U	10	4.9	ug/L			10/27/23 04:04	10
Methyl acetate	32	U	50	32	ug/L			10/27/23 04:04	10
Methyl tert-butyl ether	8.1	U	50	8.1	ug/L			10/27/23 04:04	10
Methylene Chloride	32	U	50	32	ug/L			10/27/23 04:04	10
o-Xylene	2.6	U	10	2.6	ug/L			10/27/23 04:04	10
Styrene	2.7	U	10	2.7	ug/L			10/27/23 04:04	10
Tetrachloroethene	3.5	U	10	3.5	ug/L			10/27/23 04:04	10
Toluene	**5.4**	**I**	10	2.5	ug/L			10/27/23 04:04	10
trans-1,2-Dichloroethene	**20**		10	3.4	ug/L			10/27/23 04:04	10
trans-1,3-Dichloropropene	2.3	U	10	2.3	ug/L			10/27/23 04:04	10
Trichloroethene	2.0	U	10	2.0	ug/L			10/27/23 04:04	10
Trichlorofluoromethane	3.3	U	10	3.3	ug/L			10/27/23 04:04	10
Vinyl chloride	**460**		10	4.0	ug/L			10/27/23 04:04	10
Xylenes, Total	2.3	U	10	2.3	ug/L			10/27/23 04:04	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*		*10/27/23 04:04*	*10*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*		*10/27/23 04:04*	*10*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*10/27/23 04:04*	*10*
Toluene-d8 (Surr)	*97*		*70 - 130*		*10/27/23 04:04*	*10*

Client Sample ID: LC34-DPT-1006-018.0-20231020

Lab Sample ID: 670-29049-16

Date Collected: 10/20/23 08:50

Matrix: Water

Date Received: 10/21/23 09:13

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.42	U	2.0	0.42	ug/L			10/27/23 03:00	2
1,1,2,2-Tetrachloroethane	0.80	U	2.0	0.80	ug/L			10/27/23 03:00	2
1,1,2-Trichloro-1,2,2-trifluoroethane	0.46	U	2.0	0.46	ug/L			10/27/23 03:00	2
1,1,2-Trichloroethane	0.64	U	2.0	0.64	ug/L			10/27/23 03:00	2
1,1-Dichloroethane	0.66	U	2.0	0.66	ug/L			10/27/23 03:00	2
1,1-Dichloroethene	0.66	U	2.0	0.66	ug/L			10/27/23 03:00	2
1,2,4-Trichlorobenzene	1.1	U	10	1.1	ug/L			10/27/23 03:00	2
1,2-Dibromo-3-Chloropropane	3.6	U	10	3.6	ug/L			10/27/23 03:00	2
1,2-Dibromoethane (EDB)	0.66	U	2.0	0.66	ug/L			10/27/23 03:00	2
1,2-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/27/23 03:00	2
1,2-Dichloroethane	0.50	U	2.0	0.50	ug/L			10/27/23 03:00	2
1,2-Dichloropropane	0.44	U	2.0	0.44	ug/L			10/27/23 03:00	2
1,3-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/27/23 03:00	2
1,4-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/27/23 03:00	2
2-Butanone (MEK)	13	U	20	13	ug/L			10/27/23 03:00	2
2-Hexanone	6.4	U	20	6.4	ug/L			10/27/23 03:00	2
4-Methyl-2-pentanone	5.4	U	20	5.4	ug/L			10/27/23 03:00	2

Client Sample ID: LC34-DPT-1006-018.0-20231020

Lab Sample ID: 670-29049-16

Date Collected: 10/20/23 08:50

Matrix: Water

Date Received: 10/21/23 09:13

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	7.4	U	20	7.4	ug/L			10/27/23 03:00	2
Benzene	0.54	U	2.0	0.54	ug/L			10/27/23 03:00	2
Bromodichloromethane	0.50	U	2.0	0.50	ug/L			10/27/23 03:00	2
Bromoform	1.2	U	2.0	1.2	ug/L			10/27/23 03:00	2
Bromomethane	7.4	U	10	7.4	ug/L			10/27/23 03:00	2
Carbon disulfide	0.86	U	4.0	0.86	ug/L			10/27/23 03:00	2
Carbon tetrachloride	0.60	U	2.0	0.60	ug/L			10/27/23 03:00	2
Chlorobenzene	0.30	U	2.0	0.30	ug/L			10/27/23 03:00	2
Chloroethane	9.2	U J3	10	9.2	ug/L			10/27/23 03:00	2
Chloroform	0.54	U	2.0	0.54	ug/L			10/27/23 03:00	2
Chloromethane	1.1	U	2.0	1.1	ug/L			10/27/23 03:00	2
cis-1,2-Dichloroethene	**230**		2.0	0.50	ug/L			10/27/23 03:00	2
cis-1,3-Dichloropropene	0.52	U	2.0	0.52	ug/L			10/27/23 03:00	2
Cyclohexane	0.56	U	2.0	0.56	ug/L			10/27/23 03:00	2
Dibromochloromethane	0.78	U	2.0	0.78	ug/L			10/27/23 03:00	2
Dichlorodifluoromethane	0.72	U	2.0	0.72	ug/L			10/27/23 03:00	2
Ethylbenzene	0.40	U	2.0	0.40	ug/L			10/27/23 03:00	2
Isopropylbenzene	0.52	U	2.0	0.52	ug/L			10/27/23 03:00	2
m,p-Xylenes	0.98	U	2.0	0.98	ug/L			10/27/23 03:00	2
Methyl acetate	6.4	U	10	6.4	ug/L			10/27/23 03:00	2
Methyl tert-butyl ether	1.6	U	10	1.6	ug/L			10/27/23 03:00	2
Methylene Chloride	6.4	U	10	6.4	ug/L			10/27/23 03:00	2
o-Xylene	0.52	U	2.0	0.52	ug/L			10/27/23 03:00	2
Styrene	0.54	U	2.0	0.54	ug/L			10/27/23 03:00	2
Tetrachloroethene	0.70	U	2.0	0.70	ug/L			10/27/23 03:00	2
Toluene	0.50	U	2.0	0.50	ug/L			10/27/23 03:00	2
trans-1,2-Dichloroethene	**0.96**	**I**	2.0	0.68	ug/L			10/27/23 03:00	2
trans-1,3-Dichloropropene	0.46	U	2.0	0.46	ug/L			10/27/23 03:00	2
Trichloroethene	0.40	U	2.0	0.40	ug/L			10/27/23 03:00	2
Trichlorofluoromethane	0.66	U	2.0	0.66	ug/L			10/27/23 03:00	2
Vinyl chloride	**260**		2.0	0.80	ug/L			10/27/23 03:00	2
Xylenes, Total	0.46	U	2.0	0.46	ug/L			10/27/23 03:00	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*		*10/27/23 03:00*	*2*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*10/27/23 03:00*	*2*
Dibromofluoromethane (Surr)	*95*		*70 - 130*		*10/27/23 03:00*	*2*
Toluene-d8 (Surr)	*97*		*70 - 130*		*10/27/23 03:00*	*2*

Client Sample ID: LC34-DPT-1006-013.0-20231020

Lab Sample ID: 670-29049-17

Date Collected: 10/20/23 09:05

Matrix: Water

Date Received: 10/21/23 09:13

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/26/23 22:41	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/26/23 22:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/26/23 22:41	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/26/23 22:41	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/26/23 22:41	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-29049-1

Client Sample ID: LC34-DPT-1006-013.0-20231020
Date Collected: 10/20/23 09:05
Date Received: 10/21/23 09:13

Lab Sample ID: 670-29049-17
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/26/23 22:41	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/26/23 22:41	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/26/23 22:41	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/26/23 22:41	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/26/23 22:41	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/26/23 22:41	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/26/23 22:41	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/26/23 22:41	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/26/23 22:41	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/26/23 22:41	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/26/23 22:41	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/26/23 22:41	1
Acetone	3.7	U	10	3.7	ug/L			10/26/23 22:41	1
Benzene	0.27	U	1.0	0.27	ug/L			10/26/23 22:41	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/26/23 22:41	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/26/23 22:41	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/26/23 22:41	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/26/23 22:41	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/26/23 22:41	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/26/23 22:41	1
Chloroethane	4.6	U J3	5.0	4.6	ug/L			10/26/23 22:41	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/26/23 22:41	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/26/23 22:41	1
cis-1,2-Dichloroethene	**17**		1.0	0.25	ug/L			10/26/23 22:41	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/26/23 22:41	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/26/23 22:41	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/26/23 22:41	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/26/23 22:41	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/26/23 22:41	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/26/23 22:41	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/26/23 22:41	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/26/23 22:41	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/26/23 22:41	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/26/23 22:41	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/26/23 22:41	1
Styrene	0.27	U	1.0	0.27	ug/L			10/26/23 22:41	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/26/23 22:41	1
Toluene	0.25	U	1.0	0.25	ug/L			10/26/23 22:41	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/26/23 22:41	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/26/23 22:41	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/26/23 22:41	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/26/23 22:41	1
Vinyl chloride	**18**		1.0	0.40	ug/L			10/26/23 22:41	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/26/23 22:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*		*10/26/23 22:41*	*1*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*10/26/23 22:41*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*10/26/23 22:41*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*10/26/23 22:41*	*1*

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-29049-1

Client Sample ID: LC34-DPT-1006-008.0-20231020
Date Collected: 10/20/23 09:20
Date Received: 10/21/23 09:13

Lab Sample ID: 670-29049-18
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/26/23 23:03	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/26/23 23:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/26/23 23:03	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/26/23 23:03	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/26/23 23:03	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/26/23 23:03	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/26/23 23:03	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/26/23 23:03	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/26/23 23:03	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/26/23 23:03	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/26/23 23:03	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/26/23 23:03	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/26/23 23:03	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/26/23 23:03	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/26/23 23:03	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/26/23 23:03	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/26/23 23:03	1
Acetone	3.7	U	10	3.7	ug/L			10/26/23 23:03	1
Benzene	0.27	U	1.0	0.27	ug/L			10/26/23 23:03	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/26/23 23:03	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/26/23 23:03	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/26/23 23:03	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/26/23 23:03	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/26/23 23:03	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/26/23 23:03	1
Chloroethane	4.6	U J3	5.0	4.6	ug/L			10/26/23 23:03	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/26/23 23:03	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/26/23 23:03	1
cis-1,2-Dichloroethene	**7.7**		1.0	0.25	ug/L			10/26/23 23:03	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/26/23 23:03	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/26/23 23:03	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/26/23 23:03	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/26/23 23:03	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/26/23 23:03	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/26/23 23:03	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/26/23 23:03	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/26/23 23:03	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/26/23 23:03	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/26/23 23:03	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/26/23 23:03	1
Styrene	0.27	U	1.0	0.27	ug/L			10/26/23 23:03	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/26/23 23:03	1
Toluene	0.25	U	1.0	0.25	ug/L			10/26/23 23:03	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/26/23 23:03	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/26/23 23:03	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/26/23 23:03	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/26/23 23:03	1
Vinyl chloride	**7.4**		1.0	0.40	ug/L			10/26/23 23:03	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/26/23 23:03	1

Client Sample ID: LC34-DPT-1006-008.0-20231020

Lab Sample ID: 670-29049-18

Date Collected: 10/20/23 09:20
Matrix: Water
Date Received: 10/21/23 09:13

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		60 - 124		10/26/23 23:03	1
4-Bromofluorobenzene (Surr)	92		70 - 130		10/26/23 23:03	1
Dibromofluoromethane (Surr)	96		70 - 130		10/26/23 23:03	1
Toluene-d8 (Surr)	98		70 - 130		10/26/23 23:03	1

Client Sample ID: LC34-DPT-1007-038.0-20231020

Lab Sample ID: 670-29049-19

Date Collected: 10/20/23 10:00
Matrix: Water
Date Received: 10/21/23 09:13

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/26/23 23:24	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/26/23 23:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/26/23 23:24	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/26/23 23:24	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/26/23 23:24	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/26/23 23:24	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/26/23 23:24	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/26/23 23:24	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/26/23 23:24	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/26/23 23:24	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/26/23 23:24	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/26/23 23:24	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/26/23 23:24	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/26/23 23:24	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/26/23 23:24	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/26/23 23:24	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/26/23 23:24	1
Acetone	3.7	U	10	3.7	ug/L			10/26/23 23:24	1
Benzene	0.27	U	1.0	0.27	ug/L			10/26/23 23:24	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/26/23 23:24	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/26/23 23:24	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/26/23 23:24	1
Carbon disulfide	**0.71**	**I**	2.0	0.43	ug/L			10/26/23 23:24	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/26/23 23:24	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/26/23 23:24	1
Chloroethane	4.6	U J3	5.0	4.6	ug/L			10/26/23 23:24	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/26/23 23:24	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/26/23 23:24	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/26/23 23:24	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/26/23 23:24	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/26/23 23:24	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/26/23 23:24	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/26/23 23:24	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/26/23 23:24	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/26/23 23:24	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/26/23 23:24	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/26/23 23:24	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/26/23 23:24	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/26/23 23:24	1

Client Sample ID: LC34-DPT-1007-038.0-20231020

Lab Sample ID: 670-29049-19

Date Collected: 10/20/23 10:00

Matrix: Water

Date Received: 10/21/23 09:13

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	0.26	U	1.0	0.26	ug/L			10/26/23 23:24	1
Styrene	0.27	U	1.0	0.27	ug/L			10/26/23 23:24	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/26/23 23:24	1
Toluene	0.25	U	1.0	0.25	ug/L			10/26/23 23:24	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/26/23 23:24	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/26/23 23:24	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/26/23 23:24	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/26/23 23:24	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/26/23 23:24	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/26/23 23:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*		*10/26/23 23:24*	*1*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*		*10/26/23 23:24*	*1*
Dibromofluoromethane (Surr)	*94*		*70 - 130*		*10/26/23 23:24*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*10/26/23 23:24*	*1*

Client Sample ID: LC34-DPT-1007-032.0-20231020

Lab Sample ID: 670-29049-20

Date Collected: 10/20/23 10:15

Matrix: Water

Date Received: 10/21/23 09:13

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/26/23 23:46	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/26/23 23:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/26/23 23:46	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/26/23 23:46	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/26/23 23:46	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/26/23 23:46	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/26/23 23:46	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/26/23 23:46	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/26/23 23:46	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/26/23 23:46	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/26/23 23:46	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/26/23 23:46	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/26/23 23:46	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/26/23 23:46	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/26/23 23:46	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/26/23 23:46	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/26/23 23:46	1
Acetone	3.7	U	10	3.7	ug/L			10/26/23 23:46	1
Benzene	0.27	U	1.0	0.27	ug/L			10/26/23 23:46	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/26/23 23:46	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/26/23 23:46	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/26/23 23:46	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/26/23 23:46	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/26/23 23:46	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/26/23 23:46	1
Chloroethane	4.6	U J3	5.0	4.6	ug/L			10/26/23 23:46	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/26/23 23:46	1

Client Sample ID: LC34-DPT-1007-032.0-20231020
Lab Sample ID: 670-29049-20

Date Collected: 10/20/23 10:15
Matrix: Water
Date Received: 10/21/23 09:13

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	0.54	U	1.0	0.54	ug/L			10/26/23 23:46	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/26/23 23:46	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/26/23 23:46	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/26/23 23:46	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/26/23 23:46	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/26/23 23:46	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/26/23 23:46	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/26/23 23:46	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/26/23 23:46	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/26/23 23:46	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/26/23 23:46	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/26/23 23:46	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/26/23 23:46	1
Styrene	0.27	U	1.0	0.27	ug/L			10/26/23 23:46	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/26/23 23:46	1
Toluene	0.25	U	1.0	0.25	ug/L			10/26/23 23:46	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/26/23 23:46	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/26/23 23:46	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/26/23 23:46	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/26/23 23:46	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/26/23 23:46	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/26/23 23:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*60 - 124*		*10/26/23 23:46*	*1*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*		*10/26/23 23:46*	*1*
Dibromofluoromethane (Surr)	*95*		*70 - 130*		*10/26/23 23:46*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*10/26/23 23:46*	*1*

Client Sample ID: LC34-DPT-1007-025.0-20231020
Lab Sample ID: 670-29049-21

Date Collected: 10/20/23 10:30
Matrix: Water
Date Received: 10/21/23 09:13

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/30/23 19:06	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/30/23 19:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/30/23 19:06	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/30/23 19:06	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/30/23 19:06	1
1,1-Dichloroethene	**0.41**	**I**	1.0	0.33	ug/L			10/30/23 19:06	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/30/23 19:06	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/30/23 19:06	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/30/23 19:06	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/30/23 19:06	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/30/23 19:06	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/30/23 19:06	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/30/23 19:06	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/30/23 19:06	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/30/23 19:06	1

Client Sample ID: LC34-DPT-1007-025.0-20231020

Lab Sample ID: 670-29049-21

Date Collected: 10/20/23 10:30
Matrix: Water
Date Received: 10/21/23 09:13

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	3.2	U	10	3.2	ug/L			10/30/23 19:06	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/30/23 19:06	1
Acetone	3.7	U	10	3.7	ug/L			10/30/23 19:06	1
Benzene	0.27	U	1.0	0.27	ug/L			10/30/23 19:06	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/30/23 19:06	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/30/23 19:06	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/30/23 19:06	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/30/23 19:06	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/30/23 19:06	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/30/23 19:06	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/30/23 19:06	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/30/23 19:06	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/30/23 19:06	1
cis-1,2-Dichloroethene	**860**	**L**	1.0	0.25	ug/L			10/30/23 19:06	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/30/23 19:06	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/30/23 19:06	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/30/23 19:06	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/30/23 19:06	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/30/23 19:06	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/30/23 19:06	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/30/23 19:06	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/30/23 19:06	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/30/23 19:06	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/30/23 19:06	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/30/23 19:06	1
Styrene	0.27	U	1.0	0.27	ug/L			10/30/23 19:06	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/30/23 19:06	1
Toluene	0.25	U	1.0	0.25	ug/L			10/30/23 19:06	1
trans-1,2-Dichloroethene	**34**		1.0	0.34	ug/L			10/30/23 19:06	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/30/23 19:06	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/30/23 19:06	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/30/23 19:06	1
Vinyl chloride	**270**	**L**	1.0	0.40	ug/L			10/30/23 19:06	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/30/23 19:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*60 - 124*		*10/30/23 19:06*	*1*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*		*10/30/23 19:06*	*1*
Dibromofluoromethane (Surr)	*95*		*70 - 130*		*10/30/23 19:06*	*1*
Toluene-d8 (Surr)	*113*		*70 - 130*		*10/30/23 19:06*	*1*

Client Sample ID: LC34-DPT-1007- 018.0-20231020

Lab Sample ID: 670-29049-22

Date Collected: 10/20/23 10:45
Matrix: Water
Date Received: 10/21/23 09:13

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.42	U	2.0	0.42	ug/L			10/27/23 03:21	2
1,1,2,2-Tetrachloroethane	0.80	U	2.0	0.80	ug/L			10/27/23 03:21	2
1,1,2-Trichloro-1,2,2-trifluoroethane	0.46	U	2.0	0.46	ug/L			10/27/23 03:21	2

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-29049-1

Client Sample ID: LC34-DPT-1007- 018.0-20231020
Date Collected: 10/20/23 10:45
Date Received: 10/21/23 09:13

Lab Sample ID: 670-29049-22
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	0.64	U	2.0	0.64	ug/L			10/27/23 03:21	2
1,1-Dichloroethane	0.66	U	2.0	0.66	ug/L			10/27/23 03:21	2
1,1-Dichloroethene	0.66	U	2.0	0.66	ug/L			10/27/23 03:21	2
1,2,4-Trichlorobenzene	1.1	U	10	1.1	ug/L			10/27/23 03:21	2
1,2-Dibromo-3-Chloropropane	3.6	U	10	3.6	ug/L			10/27/23 03:21	2
1,2-Dibromoethane (EDB)	0.66	U	2.0	0.66	ug/L			10/27/23 03:21	2
1,2-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/27/23 03:21	2
1,2-Dichloroethane	0.50	U	2.0	0.50	ug/L			10/27/23 03:21	2
1,2-Dichloropropane	0.44	U	2.0	0.44	ug/L			10/27/23 03:21	2
1,3-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/27/23 03:21	2
1,4-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/27/23 03:21	2
2-Butanone (MEK)	13	U	20	13	ug/L			10/27/23 03:21	2
2-Hexanone	6.4	U	20	6.4	ug/L			10/27/23 03:21	2
4-Methyl-2-pentanone	5.4	U	20	5.4	ug/L			10/27/23 03:21	2
Acetone	7.4	U	20	7.4	ug/L			10/27/23 03:21	2
Benzene	0.54	U	2.0	0.54	ug/L			10/27/23 03:21	2
Bromodichloromethane	0.50	U	2.0	0.50	ug/L			10/27/23 03:21	2
Bromoform	1.2	U	2.0	1.2	ug/L			10/27/23 03:21	2
Bromomethane	7.4	U	10	7.4	ug/L			10/27/23 03:21	2
Carbon disulfide	0.86	U	4.0	0.86	ug/L			10/27/23 03:21	2
Carbon tetrachloride	0.60	U	2.0	0.60	ug/L			10/27/23 03:21	2
Chlorobenzene	0.30	U	2.0	0.30	ug/L			10/27/23 03:21	2
Chloroethane	9.2	U J3	10	9.2	ug/L			10/27/23 03:21	2
Chloroform	0.54	U	2.0	0.54	ug/L			10/27/23 03:21	2
Chloromethane	1.1	U	2.0	1.1	ug/L			10/27/23 03:21	2
cis-1,2-Dichloroethene	**160**		2.0	0.50	ug/L			10/27/23 03:21	2
cis-1,3-Dichloropropene	0.52	U	2.0	0.52	ug/L			10/27/23 03:21	2
Cyclohexane	0.56	U	2.0	0.56	ug/L			10/27/23 03:21	2
Dibromochloromethane	0.78	U	2.0	0.78	ug/L			10/27/23 03:21	2
Dichlorodifluoromethane	0.72	U	2.0	0.72	ug/L			10/27/23 03:21	2
Ethylbenzene	0.40	U	2.0	0.40	ug/L			10/27/23 03:21	2
Isopropylbenzene	0.52	U	2.0	0.52	ug/L			10/27/23 03:21	2
m,p-Xylenes	0.98	U	2.0	0.98	ug/L			10/27/23 03:21	2
Methyl acetate	6.4	U	10	6.4	ug/L			10/27/23 03:21	2
Methyl tert-butyl ether	1.6	U	10	1.6	ug/L			10/27/23 03:21	2
Methylene Chloride	6.4	U	10	6.4	ug/L			10/27/23 03:21	2
o-Xylene	0.52	U	2.0	0.52	ug/L			10/27/23 03:21	2
Styrene	0.54	U	2.0	0.54	ug/L			10/27/23 03:21	2
Tetrachloroethene	0.70	U	2.0	0.70	ug/L			10/27/23 03:21	2
Toluene	0.50	U	2.0	0.50	ug/L			10/27/23 03:21	2
trans-1,2-Dichloroethene	0.68	U	2.0	0.68	ug/L			10/27/23 03:21	2
trans-1,3-Dichloropropene	0.46	U	2.0	0.46	ug/L			10/27/23 03:21	2
Trichloroethene	0.40	U	2.0	0.40	ug/L			10/27/23 03:21	2
Trichlorofluoromethane	0.66	U	2.0	0.66	ug/L			10/27/23 03:21	2
Vinyl chloride	**270**		2.0	0.80	ug/L			10/27/23 03:21	2
Xylenes, Total	0.46	U	2.0	0.46	ug/L			10/27/23 03:21	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*		*10/27/23 03:21*	*2*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*10/27/23 03:21*	*2*

Client Sample ID: LC34-DPT-1007- 018.0-20231020

Lab Sample ID: 670-29049-22

Date Collected: 10/20/23 10:45
Matrix: Water
Date Received: 10/21/23 09:13

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*10/27/23 03:21*	*2*
Toluene-d8 (Surr)	*98*		*70 - 130*		*10/27/23 03:21*	*2*

Client Sample ID: LC34-DPT-1007-013.0-20231020

Lab Sample ID: 670-29049-23

Date Collected: 10/20/23 11:00
Matrix: Water
Date Received: 10/21/23 09:13

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/27/23 00:07	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/27/23 00:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/27/23 00:07	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/27/23 00:07	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/27/23 00:07	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/27/23 00:07	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/27/23 00:07	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/27/23 00:07	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/27/23 00:07	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/27/23 00:07	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/27/23 00:07	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/27/23 00:07	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/27/23 00:07	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/27/23 00:07	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/27/23 00:07	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/27/23 00:07	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/27/23 00:07	1
Acetone	3.7	U	10	3.7	ug/L			10/27/23 00:07	1
Benzene	0.27	U	1.0	0.27	ug/L			10/27/23 00:07	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/27/23 00:07	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/27/23 00:07	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/27/23 00:07	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/27/23 00:07	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/27/23 00:07	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/27/23 00:07	1
Chloroethane	4.6	U J3	5.0	4.6	ug/L			10/27/23 00:07	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/27/23 00:07	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/27/23 00:07	1
cis-1,2-Dichloroethene	**13**		1.0	0.25	ug/L			10/27/23 00:07	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/27/23 00:07	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/27/23 00:07	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/27/23 00:07	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/27/23 00:07	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/27/23 00:07	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/27/23 00:07	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/27/23 00:07	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/27/23 00:07	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/27/23 00:07	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/27/23 00:07	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/27/23 00:07	1

Client Sample ID: LC34-DPT-1007-013.0-20231020

Lab Sample ID: 670-29049-23

Date Collected: 10/20/23 11:00

Matrix: Water

Date Received: 10/21/23 09:13

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.27	U	1.0	0.27	ug/L			10/27/23 00:07	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/27/23 00:07	1
Toluene	0.25	U	1.0	0.25	ug/L			10/27/23 00:07	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/27/23 00:07	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/27/23 00:07	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/27/23 00:07	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/27/23 00:07	1
Vinyl chloride	11		1.0	0.40	ug/L			10/27/23 00:07	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/27/23 00:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*60 - 124*		*10/27/23 00:07*	*1*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*		*10/27/23 00:07*	*1*
Dibromofluoromethane (Surr)	*95*		*70 - 130*		*10/27/23 00:07*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*10/27/23 00:07*	*1*

Client Sample ID: LC34-DPT-1007-008.0 -20231020

Lab Sample ID: 670-29049-24

Date Collected: 10/20/23 11:15

Matrix: Water

Date Received: 10/21/23 09:13

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/27/23 00:50	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/27/23 00:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/27/23 00:50	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/27/23 00:50	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/27/23 00:50	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/27/23 00:50	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/27/23 00:50	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/27/23 00:50	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/27/23 00:50	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/27/23 00:50	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/27/23 00:50	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/27/23 00:50	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/27/23 00:50	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/27/23 00:50	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/27/23 00:50	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/27/23 00:50	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/27/23 00:50	1
Acetone	3.7	U	10	3.7	ug/L			10/27/23 00:50	1
Benzene	0.27	U	1.0	0.27	ug/L			10/27/23 00:50	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/27/23 00:50	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/27/23 00:50	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/27/23 00:50	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/27/23 00:50	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/27/23 00:50	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/27/23 00:50	1
Chloroethane	4.6	U J3	5.0	4.6	ug/L			10/27/23 00:50	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/27/23 00:50	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/27/23 00:50	1

Client Sample ID: LC34-DPT-1007-008.0 -20231020

Lab Sample ID: 670-29049-24
Date Collected: 10/20/23 11:15
Matrix: Water
Date Received: 10/21/23 09:13

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**6.4**		1.0	0.25	ug/L			10/27/23 00:50	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/27/23 00:50	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/27/23 00:50	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/27/23 00:50	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/27/23 00:50	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/27/23 00:50	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/27/23 00:50	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/27/23 00:50	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/27/23 00:50	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/27/23 00:50	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/27/23 00:50	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/27/23 00:50	1
Styrene	0.27	U	1.0	0.27	ug/L			10/27/23 00:50	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/27/23 00:50	1
Toluene	0.25	U	1.0	0.25	ug/L			10/27/23 00:50	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/27/23 00:50	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/27/23 00:50	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/27/23 00:50	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/27/23 00:50	1
Vinyl chloride	**5.2**		1.0	0.40	ug/L			10/27/23 00:50	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/27/23 00:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*		*10/27/23 00:50*	*1*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*		*10/27/23 00:50*	*1*
Dibromofluoromethane (Surr)	*94*		*70 - 130*		*10/27/23 00:50*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*10/27/23 00:50*	*1*

Client Sample ID: LC34-DPT-1008-038.0-20231020

Lab Sample ID: 670-29049-25
Date Collected: 10/20/23 11:55
Matrix: Water
Date Received: 10/21/23 09:13

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/27/23 00:29	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/27/23 00:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/27/23 00:29	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/27/23 00:29	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/27/23 00:29	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/27/23 00:29	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/27/23 00:29	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/27/23 00:29	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/27/23 00:29	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/27/23 00:29	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/27/23 00:29	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/27/23 00:29	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/27/23 00:29	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/27/23 00:29	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/27/23 00:29	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/27/23 00:29	1

Client Sample ID: LC34-DPT-1008-038.0-20231020

Lab Sample ID: 670-29049-25

Date Collected: 10/20/23 11:55

Matrix: Water

Date Received: 10/21/23 09:13

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/27/23 00:29	1
Acetone	3.7	U	10	3.7	ug/L			10/27/23 00:29	1
Benzene	0.27	U	1.0	0.27	ug/L			10/27/23 00:29	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/27/23 00:29	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/27/23 00:29	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/27/23 00:29	1
Carbon disulfide	**1.0**	**I**	2.0	0.43	ug/L			10/27/23 00:29	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/27/23 00:29	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/27/23 00:29	1
Chloroethane	4.6	U J3	5.0	4.6	ug/L			10/27/23 00:29	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/27/23 00:29	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/27/23 00:29	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/27/23 00:29	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/27/23 00:29	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/27/23 00:29	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/27/23 00:29	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/27/23 00:29	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/27/23 00:29	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/27/23 00:29	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/27/23 00:29	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/27/23 00:29	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/27/23 00:29	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/27/23 00:29	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/27/23 00:29	1
Styrene	0.27	U	1.0	0.27	ug/L			10/27/23 00:29	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/27/23 00:29	1
Toluene	0.25	U	1.0	0.25	ug/L			10/27/23 00:29	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/27/23 00:29	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/27/23 00:29	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/27/23 00:29	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/27/23 00:29	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/27/23 00:29	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/27/23 00:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*		*10/27/23 00:29*	*1*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*10/27/23 00:29*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*10/27/23 00:29*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*10/27/23 00:29*	*1*

Client Sample ID: LC34-DPT-1008-032.0-20231020

Lab Sample ID: 670-29049-26

Date Collected: 10/20/23 12:10

Matrix: Water

Date Received: 10/21/23 09:13

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/27/23 01:12	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/27/23 01:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/27/23 01:12	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/27/23 01:12	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-29049-1

Client Sample ID: LC34-DPT-1008-032.0-20231020
Date Collected: 10/20/23 12:10
Date Received: 10/21/23 09:13

Lab Sample ID: 670-29049-26
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/27/23 01:12	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/27/23 01:12	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/27/23 01:12	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/27/23 01:12	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/27/23 01:12	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/27/23 01:12	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/27/23 01:12	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/27/23 01:12	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/27/23 01:12	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/27/23 01:12	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/27/23 01:12	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/27/23 01:12	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/27/23 01:12	1
Acetone	3.7	U	10	3.7	ug/L			10/27/23 01:12	1
Benzene	0.27	U	1.0	0.27	ug/L			10/27/23 01:12	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/27/23 01:12	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/27/23 01:12	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/27/23 01:12	1
Carbon disulfide	**0.72**	**I**	2.0	0.43	ug/L			10/27/23 01:12	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/27/23 01:12	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/27/23 01:12	1
Chloroethane	4.6	U J3	5.0	4.6	ug/L			10/27/23 01:12	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/27/23 01:12	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/27/23 01:12	1
cis-1,2-Dichloroethene	**84**		1.0	0.25	ug/L			10/27/23 01:12	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/27/23 01:12	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/27/23 01:12	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/27/23 01:12	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/27/23 01:12	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/27/23 01:12	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/27/23 01:12	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/27/23 01:12	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/27/23 01:12	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/27/23 01:12	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/27/23 01:12	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/27/23 01:12	1
Styrene	0.27	U	1.0	0.27	ug/L			10/27/23 01:12	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/27/23 01:12	1
Toluene	0.25	U	1.0	0.25	ug/L			10/27/23 01:12	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/27/23 01:12	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/27/23 01:12	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/27/23 01:12	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/27/23 01:12	1
Vinyl chloride	**44**		1.0	0.40	ug/L			10/27/23 01:12	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/27/23 01:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*		*10/27/23 01:12*	*1*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*		*10/27/23 01:12*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*10/27/23 01:12*	*1*

Client Sample ID: LC34-DPT-1008-032.0-20231020

Lab Sample ID: 670-29049-26

Date Collected: 10/20/23 12:10

Matrix: Water

Date Received: 10/21/23 09:13

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		70 - 130		10/27/23 01:12	1

Client Sample ID: LC34-DPT-1008-025.0-20231020

Lab Sample ID: 670-29049-27

Date Collected: 10/20/23 12:25

Matrix: Water

Date Received: 10/21/23 09:13

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	4.2	U	20	4.2	ug/L			10/27/23 04:47	20
1,1,2,2-Tetrachloroethane	8.0	U	20	8.0	ug/L			10/27/23 04:47	20
1,1,2-Trichloro-1,2,2-trifluoroethane	4.6	U	20	4.6	ug/L			10/27/23 04:47	20
1,1,2-Trichloroethane	6.4	U	20	6.4	ug/L			10/27/23 04:47	20
1,1-Dichloroethane	6.6	U	20	6.6	ug/L			10/27/23 04:47	20
1,1-Dichloroethene	6.6	U	20	6.6	ug/L			10/27/23 04:47	20
1,2,4-Trichlorobenzene	11	U	100	11	ug/L			10/27/23 04:47	20
1,2-Dibromo-3-Chloropropane	36	U	100	36	ug/L			10/27/23 04:47	20
1,2-Dibromoethane (EDB)	6.6	U	20	6.6	ug/L			10/27/23 04:47	20
1,2-Dichlorobenzene	6.2	U	20	6.2	ug/L			10/27/23 04:47	20
1,2-Dichloroethane	5.0	U	20	5.0	ug/L			10/27/23 04:47	20
1,2-Dichloropropane	4.4	U	20	4.4	ug/L			10/27/23 04:47	20
1,3-Dichlorobenzene	6.2	U	20	6.2	ug/L			10/27/23 04:47	20
1,4-Dichlorobenzene	6.2	U	20	6.2	ug/L			10/27/23 04:47	20
2-Butanone (MEK)	130	U	200	130	ug/L			10/27/23 04:47	20
2-Hexanone	64	U	200	64	ug/L			10/27/23 04:47	20
4-Methyl-2-pentanone	54	U	200	54	ug/L			10/27/23 04:47	20
Acetone	74	U	200	74	ug/L			10/27/23 04:47	20
Benzene	5.4	U	20	5.4	ug/L			10/27/23 04:47	20
Bromodichloromethane	5.0	U	20	5.0	ug/L			10/27/23 04:47	20
Bromoform	12	U	20	12	ug/L			10/27/23 04:47	20
Bromomethane	74	U	100	74	ug/L			10/27/23 04:47	20
Carbon disulfide	8.6	U	40	8.6	ug/L			10/27/23 04:47	20
Carbon tetrachloride	6.0	U	20	6.0	ug/L			10/27/23 04:47	20
Chlorobenzene	3.0	U	20	3.0	ug/L			10/27/23 04:47	20
Chloroethane	92	U J3	100	92	ug/L			10/27/23 04:47	20
Chloroform	5.4	U	20	5.4	ug/L			10/27/23 04:47	20
Chloromethane	11	U	20	11	ug/L			10/27/23 04:47	20
cis-1,2-Dichloroethene	**2000**		20	5.0	ug/L			10/27/23 04:47	20
cis-1,3-Dichloropropene	5.2	U	20	5.2	ug/L			10/27/23 04:47	20
Cyclohexane	5.6	U	20	5.6	ug/L			10/27/23 04:47	20
Dibromochloromethane	7.8	U	20	7.8	ug/L			10/27/23 04:47	20
Dichlorodifluoromethane	7.2	U	20	7.2	ug/L			10/27/23 04:47	20
Ethylbenzene	4.0	U	20	4.0	ug/L			10/27/23 04:47	20
Isopropylbenzene	5.2	U	20	5.2	ug/L			10/27/23 04:47	20
m,p-Xylenes	9.8	U	20	9.8	ug/L			10/27/23 04:47	20
Methyl acetate	64	U	100	64	ug/L			10/27/23 04:47	20
Methyl tert-butyl ether	16	U	100	16	ug/L			10/27/23 04:47	20
Methylene Chloride	64	U	100	64	ug/L			10/27/23 04:47	20
o-Xylene	5.2	U	20	5.2	ug/L			10/27/23 04:47	20
Styrene	5.4	U	20	5.4	ug/L			10/27/23 04:47	20

Client Sample ID: LC34-DPT-1008-025.0-20231020

Lab Sample ID: 670-29049-27

Date Collected: 10/20/23 12:25

Matrix: Water

Date Received: 10/21/23 09:13

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	7.0	U	20	7.0	ug/L			10/27/23 04:47	20
Toluene	5.0	U	20	5.0	ug/L			10/27/23 04:47	20
trans-1,2-Dichloroethene	**16**	**I**	20	6.8	ug/L			10/27/23 04:47	20
trans-1,3-Dichloropropene	4.6	U	20	4.6	ug/L			10/27/23 04:47	20
Trichloroethene	4.0	U	20	4.0	ug/L			10/27/23 04:47	20
Trichlorofluoromethane	6.6	U	20	6.6	ug/L			10/27/23 04:47	20
Vinyl chloride	**1100**		20	8.0	ug/L			10/27/23 04:47	20
Xylenes, Total	4.6	U	20	4.6	ug/L			10/27/23 04:47	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*		*10/27/23 04:47*	*20*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*		*10/27/23 04:47*	*20*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*10/27/23 04:47*	*20*
Toluene-d8 (Surr)	*99*		*70 - 130*		*10/27/23 04:47*	*20*

Client Sample ID: LC34-DPT-1008-018.0-20231020

Lab Sample ID: 670-29049-28

Date Collected: 10/20/23 12:40

Matrix: Water

Date Received: 10/21/23 09:13

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.42	U	2.0	0.42	ug/L			10/27/23 03:43	2
1,1,2,2-Tetrachloroethane	0.80	U	2.0	0.80	ug/L			10/27/23 03:43	2
1,1,2-Trichloro-1,2,2-trifluoroethane	0.46	U	2.0	0.46	ug/L			10/27/23 03:43	2
1,1,2-Trichloroethane	0.64	U	2.0	0.64	ug/L			10/27/23 03:43	2
1,1-Dichloroethane	0.66	U	2.0	0.66	ug/L			10/27/23 03:43	2
1,1-Dichloroethene	0.66	U	2.0	0.66	ug/L			10/27/23 03:43	2
1,2,4-Trichlorobenzene	1.1	U	10	1.1	ug/L			10/27/23 03:43	2
1,2-Dibromo-3-Chloropropane	3.6	U	10	3.6	ug/L			10/27/23 03:43	2
1,2-Dibromoethane (EDB)	0.66	U	2.0	0.66	ug/L			10/27/23 03:43	2
1,2-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/27/23 03:43	2
1,2-Dichloroethane	0.50	U	2.0	0.50	ug/L			10/27/23 03:43	2
1,2-Dichloropropane	0.44	U	2.0	0.44	ug/L			10/27/23 03:43	2
1,3-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/27/23 03:43	2
1,4-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/27/23 03:43	2
2-Butanone (MEK)	13	U	20	13	ug/L			10/27/23 03:43	2
2-Hexanone	6.4	U	20	6.4	ug/L			10/27/23 03:43	2
4-Methyl-2-pentanone	5.4	U	20	5.4	ug/L			10/27/23 03:43	2
Acetone	7.4	U	20	7.4	ug/L			10/27/23 03:43	2
Benzene	0.54	U	2.0	0.54	ug/L			10/27/23 03:43	2
Bromodichloromethane	0.50	U	2.0	0.50	ug/L			10/27/23 03:43	2
Bromoform	1.2	U	2.0	1.2	ug/L			10/27/23 03:43	2
Bromomethane	7.4	U	10	7.4	ug/L			10/27/23 03:43	2
Carbon disulfide	0.86	U	4.0	0.86	ug/L			10/27/23 03:43	2
Carbon tetrachloride	0.60	U	2.0	0.60	ug/L			10/27/23 03:43	2
Chlorobenzene	0.30	U	2.0	0.30	ug/L			10/27/23 03:43	2
Chloroethane	9.2	U J3	10	9.2	ug/L			10/27/23 03:43	2
Chloroform	0.54	U	2.0	0.54	ug/L			10/27/23 03:43	2
Chloromethane	1.1	U	2.0	1.1	ug/L			10/27/23 03:43	2
cis-1,2-Dichloroethene	**58**		2.0	0.50	ug/L			10/27/23 03:43	2

Client Sample ID: LC34-DPT-1008-018.0-20231020

Lab Sample ID: 670-29049-28

Date Collected: 10/20/23 12:40

Matrix: Water

Date Received: 10/21/23 09:13

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	0.52	U	2.0	0.52	ug/L			10/27/23 03:43	2
Cyclohexane	0.56	U	2.0	0.56	ug/L			10/27/23 03:43	2
Dibromochloromethane	0.78	U	2.0	0.78	ug/L			10/27/23 03:43	2
Dichlorodifluoromethane	0.72	U	2.0	0.72	ug/L			10/27/23 03:43	2
Ethylbenzene	0.40	U	2.0	0.40	ug/L			10/27/23 03:43	2
Isopropylbenzene	0.52	U	2.0	0.52	ug/L			10/27/23 03:43	2
m,p-Xylenes	0.98	U	2.0	0.98	ug/L			10/27/23 03:43	2
Methyl acetate	6.4	U	10	6.4	ug/L			10/27/23 03:43	2
Methyl tert-butyl ether	1.6	U	10	1.6	ug/L			10/27/23 03:43	2
Methylene Chloride	6.4	U	10	6.4	ug/L			10/27/23 03:43	2
o-Xylene	0.52	U	2.0	0.52	ug/L			10/27/23 03:43	2
Styrene	0.54	U	2.0	0.54	ug/L			10/27/23 03:43	2
Tetrachloroethene	0.70	U	2.0	0.70	ug/L			10/27/23 03:43	2
Toluene	0.50	U	2.0	0.50	ug/L			10/27/23 03:43	2
trans-1,2-Dichloroethene	0.68	U	2.0	0.68	ug/L			10/27/23 03:43	2
trans-1,3-Dichloropropene	0.46	U	2.0	0.46	ug/L			10/27/23 03:43	2
Trichloroethene	0.40	U	2.0	0.40	ug/L			10/27/23 03:43	2
Trichlorofluoromethane	0.66	U	2.0	0.66	ug/L			10/27/23 03:43	2
Vinyl chloride	**180**		2.0	0.80	ug/L			10/27/23 03:43	2
Xylenes, Total	0.46	U	2.0	0.46	ug/L			10/27/23 03:43	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*		*10/27/23 03:43*	*2*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*		*10/27/23 03:43*	*2*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*10/27/23 03:43*	*2*
Toluene-d8 (Surr)	*98*		*70 - 130*		*10/27/23 03:43*	*2*

Client Sample ID: LC34-DPT-1008-013.0-20231020

Lab Sample ID: 670-29049-29

Date Collected: 10/20/23 12:55

Matrix: Water

Date Received: 10/21/23 09:13

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/27/23 01:33	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/27/23 01:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/27/23 01:33	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/27/23 01:33	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/27/23 01:33	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/27/23 01:33	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/27/23 01:33	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/27/23 01:33	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/27/23 01:33	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/27/23 01:33	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/27/23 01:33	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/27/23 01:33	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/27/23 01:33	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/27/23 01:33	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/27/23 01:33	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/27/23 01:33	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/27/23 01:33	1

Client Sample ID: LC34-DPT-1008-013.0-20231020

Lab Sample ID: 670-29049-29

Date Collected: 10/20/23 12:55

Matrix: Water

Date Received: 10/21/23 09:13

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	3.7	U	10	3.7	ug/L			10/27/23 01:33	1
Benzene	0.27	U	1.0	0.27	ug/L			10/27/23 01:33	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/27/23 01:33	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/27/23 01:33	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/27/23 01:33	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/27/23 01:33	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/27/23 01:33	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/27/23 01:33	1
Chloroethane	4.6	U J3	5.0	4.6	ug/L			10/27/23 01:33	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/27/23 01:33	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/27/23 01:33	1
cis-1,2-Dichloroethene	**14**		1.0	0.25	ug/L			10/27/23 01:33	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/27/23 01:33	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/27/23 01:33	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/27/23 01:33	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/27/23 01:33	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/27/23 01:33	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/27/23 01:33	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/27/23 01:33	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/27/23 01:33	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/27/23 01:33	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/27/23 01:33	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/27/23 01:33	1
Styrene	0.27	U	1.0	0.27	ug/L			10/27/23 01:33	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/27/23 01:33	1
Toluene	0.25	U	1.0	0.25	ug/L			10/27/23 01:33	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/27/23 01:33	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/27/23 01:33	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/27/23 01:33	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/27/23 01:33	1
Vinyl chloride	**15**		1.0	0.40	ug/L			10/27/23 01:33	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/27/23 01:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*		*10/27/23 01:33*	*1*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*10/27/23 01:33*	*1*
Dibromofluoromethane (Surr)	*95*		*70 - 130*		*10/27/23 01:33*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*10/27/23 01:33*	*1*

Client Sample ID: LC34-DPT-1008-008.0-20231020

Lab Sample ID: 670-29049-30

Date Collected: 10/20/23 13:10

Matrix: Water

Date Received: 10/21/23 09:13

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/27/23 01:55	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/27/23 01:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/27/23 01:55	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/27/23 01:55	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/27/23 01:55	1

Client Sample ID: LC34-DPT-1008-008.0-20231020
Date Collected: 10/20/23 13:10
Date Received: 10/21/23 09:13

Lab Sample ID: 670-29049-30
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/27/23 01:55	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/27/23 01:55	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/27/23 01:55	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/27/23 01:55	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/27/23 01:55	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/27/23 01:55	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/27/23 01:55	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/27/23 01:55	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/27/23 01:55	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/27/23 01:55	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/27/23 01:55	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/27/23 01:55	1
Acetone	3.7	U	10	3.7	ug/L			10/27/23 01:55	1
Benzene	0.27	U	1.0	0.27	ug/L			10/27/23 01:55	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/27/23 01:55	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/27/23 01:55	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/27/23 01:55	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/27/23 01:55	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/27/23 01:55	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/27/23 01:55	1
Chloroethane	4.6	U J3	5.0	4.6	ug/L			10/27/23 01:55	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/27/23 01:55	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/27/23 01:55	1
cis-1,2-Dichloroethene	**9.2**		1.0	0.25	ug/L			10/27/23 01:55	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/27/23 01:55	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/27/23 01:55	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/27/23 01:55	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/27/23 01:55	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/27/23 01:55	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/27/23 01:55	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/27/23 01:55	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/27/23 01:55	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/27/23 01:55	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/27/23 01:55	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/27/23 01:55	1
Styrene	0.27	U	1.0	0.27	ug/L			10/27/23 01:55	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/27/23 01:55	1
Toluene	0.25	U	1.0	0.25	ug/L			10/27/23 01:55	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/27/23 01:55	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/27/23 01:55	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/27/23 01:55	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/27/23 01:55	1
Vinyl chloride	**7.3**		1.0	0.40	ug/L			10/27/23 01:55	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/27/23 01:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*		*10/27/23 01:55*	*1*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*10/27/23 01:55*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*10/27/23 01:55*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*10/27/23 01:55*	*1*

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-29049-1

Client Sample ID: LC34-DPT-1009-008.0-20231020
Date Collected: 10/20/23 13:55
Date Received: 10/21/23 09:13

Lab Sample ID: 670-29049-31
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/27/23 02:17	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/27/23 02:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/27/23 02:17	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/27/23 02:17	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/27/23 02:17	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/27/23 02:17	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/27/23 02:17	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/27/23 02:17	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/27/23 02:17	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/27/23 02:17	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/27/23 02:17	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/27/23 02:17	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/27/23 02:17	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/27/23 02:17	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/27/23 02:17	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/27/23 02:17	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/27/23 02:17	1
Acetone	3.7	U	10	3.7	ug/L			10/27/23 02:17	1
Benzene	0.27	U	1.0	0.27	ug/L			10/27/23 02:17	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/27/23 02:17	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/27/23 02:17	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/27/23 02:17	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/27/23 02:17	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/27/23 02:17	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/27/23 02:17	1
Chloroethane	4.6	U J3	5.0	4.6	ug/L			10/27/23 02:17	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/27/23 02:17	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/27/23 02:17	1
cis-1,2-Dichloroethene	**2.5**		1.0	0.25	ug/L			10/27/23 02:17	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/27/23 02:17	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/27/23 02:17	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/27/23 02:17	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/27/23 02:17	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/27/23 02:17	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/27/23 02:17	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/27/23 02:17	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/27/23 02:17	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/27/23 02:17	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/27/23 02:17	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/27/23 02:17	1
Styrene	0.27	U	1.0	0.27	ug/L			10/27/23 02:17	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/27/23 02:17	1
Toluene	0.25	U	1.0	0.25	ug/L			10/27/23 02:17	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/27/23 02:17	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/27/23 02:17	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/27/23 02:17	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/27/23 02:17	1
Vinyl chloride	**14**		1.0	0.40	ug/L			10/27/23 02:17	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/27/23 02:17	1

Client Sample ID: LC34-DPT-1009-008.0-20231020

Lab Sample ID: 670-29049-31

Date Collected: 10/20/23 13:55

Matrix: Water

Date Received: 10/21/23 09:13

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*		*10/27/23 02:17*	*1*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*10/27/23 02:17*	*1*
Dibromofluoromethane (Surr)	*94*		*70 - 130*		*10/27/23 02:17*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*10/27/23 02:17*	*1*

Client Sample ID: LC34-DPT-1009-013.0-20231020

Lab Sample ID: 670-29049-32

Date Collected: 10/20/23 14:05

Matrix: Water

Date Received: 10/21/23 09:13

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/27/23 02:38	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/27/23 02:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/27/23 02:38	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/27/23 02:38	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/27/23 02:38	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/27/23 02:38	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/27/23 02:38	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/27/23 02:38	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/27/23 02:38	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/27/23 02:38	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/27/23 02:38	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/27/23 02:38	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/27/23 02:38	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/27/23 02:38	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/27/23 02:38	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/27/23 02:38	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/27/23 02:38	1
Acetone	3.7	U	10	3.7	ug/L			10/27/23 02:38	1
Benzene	0.27	U	1.0	0.27	ug/L			10/27/23 02:38	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/27/23 02:38	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/27/23 02:38	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/27/23 02:38	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/27/23 02:38	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/27/23 02:38	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/27/23 02:38	1
Chloroethane	4.6	U J3	5.0	4.6	ug/L			10/27/23 02:38	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/27/23 02:38	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/27/23 02:38	1
cis-1,2-Dichloroethene	**5.2**		1.0	0.25	ug/L			10/27/23 02:38	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/27/23 02:38	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/27/23 02:38	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/27/23 02:38	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/27/23 02:38	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/27/23 02:38	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/27/23 02:38	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/27/23 02:38	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/27/23 02:38	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/27/23 02:38	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/27/23 02:38	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-29049-1

Client Sample ID: LC34-DPT-1009-013.0-20231020

Lab Sample ID: 670-29049-32
Matrix: Water
Date Collected: 10/20/23 14:05
Date Received: 10/21/23 09:13

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	0.26	U	1.0	0.26	ug/L			10/27/23 02:38	1
Styrene	0.27	U	1.0	0.27	ug/L			10/27/23 02:38	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/27/23 02:38	1
Toluene	0.25	U	1.0	0.25	ug/L			10/27/23 02:38	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/27/23 02:38	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/27/23 02:38	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/27/23 02:38	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/27/23 02:38	1
Vinyl chloride	**43**		1.0	0.40	ug/L			10/27/23 02:38	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/27/23 02:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*		*10/27/23 02:38*	*1*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*		*10/27/23 02:38*	*1*
Dibromofluoromethane (Surr)	*95*		*70 - 130*		*10/27/23 02:38*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*10/27/23 02:38*	*1*

Client Sample ID: LC34-DPT-1009-018.0-20231020

Lab Sample ID: 670-29049-33
Matrix: Water
Date Collected: 10/20/23 14:15
Date Received: 10/21/23 09:13

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	5.0	1.1	ug/L			10/27/23 16:02	5
1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	ug/L			10/27/23 16:02	5
1,1,2-Trichloro-1,2,2-trifluoroethane	1.2	U	5.0	1.2	ug/L			10/27/23 16:02	5
1,1,2-Trichloroethane	1.6	U	5.0	1.6	ug/L			10/27/23 16:02	5
1,1-Dichloroethane	1.7	U	5.0	1.7	ug/L			10/27/23 16:02	5
1,1-Dichloroethene	1.7	U	5.0	1.7	ug/L			10/27/23 16:02	5
1,2,4-Trichlorobenzene	2.7	U	25	2.7	ug/L			10/27/23 16:02	5
1,2-Dibromo-3-Chloropropane	9.0	U	25	9.0	ug/L			10/27/23 16:02	5
1,2-Dibromoethane (EDB)	1.7	U	5.0	1.7	ug/L			10/27/23 16:02	5
1,2-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/27/23 16:02	5
1,2-Dichloroethane	1.3	U	5.0	1.3	ug/L			10/27/23 16:02	5
1,2-Dichloropropane	1.1	U	5.0	1.1	ug/L			10/27/23 16:02	5
1,3-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/27/23 16:02	5
1,4-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/27/23 16:02	5
2-Butanone (MEK)	32	U	50	32	ug/L			10/27/23 16:02	5
2-Hexanone	16	U	50	16	ug/L			10/27/23 16:02	5
4-Methyl-2-pentanone	14	U	50	14	ug/L			10/27/23 16:02	5
Acetone	19	U	50	19	ug/L			10/27/23 16:02	5
Benzene	1.4	U	5.0	1.4	ug/L			10/27/23 16:02	5
Bromodichloromethane	1.3	U	5.0	1.3	ug/L			10/27/23 16:02	5
Bromoform	3.0	U	5.0	3.0	ug/L			10/27/23 16:02	5
Bromomethane	19	U	25	19	ug/L			10/27/23 16:02	5
Carbon disulfide	2.2	U	10	2.2	ug/L			10/27/23 16:02	5
Carbon tetrachloride	1.5	U	5.0	1.5	ug/L			10/27/23 16:02	5
Chlorobenzene	0.75	U	5.0	0.75	ug/L			10/27/23 16:02	5
Chloroethane	23	U J3	25	23	ug/L			10/27/23 16:02	5
Chloroform	1.4	U	5.0	1.4	ug/L			10/27/23 16:02	5

Client Sample ID: LC34-DPT-1009-018.0-20231020
Lab Sample ID: 670-29049-33
Date Collected: 10/20/23 14:15
Matrix: Water
Date Received: 10/21/23 09:13

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	2.7	U	5.0	2.7	ug/L			10/27/23 16:02	5
cis-1,2-Dichloroethene	**210**		5.0	1.3	ug/L			10/27/23 16:02	5
cis-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			10/27/23 16:02	5
Cyclohexane	1.4	U	5.0	1.4	ug/L			10/27/23 16:02	5
Dibromochloromethane	2.0	U	5.0	2.0	ug/L			10/27/23 16:02	5
Dichlorodifluoromethane	1.8	U	5.0	1.8	ug/L			10/27/23 16:02	5
Ethylbenzene	**1.6**	**I**	5.0	1.0	ug/L			10/27/23 16:02	5
Isopropylbenzene	1.3	U	5.0	1.3	ug/L			10/27/23 16:02	5
m,p-Xylenes	**7.8**		5.0	2.5	ug/L			10/27/23 16:02	5
Methyl acetate	16	U	25	16	ug/L			10/27/23 16:02	5
Methyl tert-butyl ether	4.1	U	25	4.1	ug/L			10/27/23 16:02	5
Methylene Chloride	16	U	25	16	ug/L			10/27/23 16:02	5
o-Xylene	**4.0**	**I**	5.0	1.3	ug/L			10/27/23 16:02	5
Styrene	1.4	U	5.0	1.4	ug/L			10/27/23 16:02	5
Tetrachloroethene	1.8	U	5.0	1.8	ug/L			10/27/23 16:02	5
Toluene	**7.5**		5.0	1.3	ug/L			10/27/23 16:02	5
trans-1,2-Dichloroethene	1.7	U	5.0	1.7	ug/L			10/27/23 16:02	5
trans-1,3-Dichloropropene	1.2	U	5.0	1.2	ug/L			10/27/23 16:02	5
Trichloroethene	1.0	U	5.0	1.0	ug/L			10/27/23 16:02	5
Trichlorofluoromethane	1.7	U	5.0	1.7	ug/L			10/27/23 16:02	5
Vinyl chloride	**610**		5.0	2.0	ug/L			10/27/23 16:02	5
Xylenes, Total	**12**		5.0	1.2	ug/L			10/27/23 16:02	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*60 - 124*		*10/27/23 16:02*	*5*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*		*10/27/23 16:02*	*5*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*10/27/23 16:02*	*5*
Toluene-d8 (Surr)	*99*		*70 - 130*		*10/27/23 16:02*	*5*

Client Sample ID: LC34-DPT-1009-025.0-20231020
Lab Sample ID: 670-29049-34
Date Collected: 10/20/23 14:30
Matrix: Water
Date Received: 10/21/23 09:13

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	5.0	1.1	ug/L			10/27/23 16:24	5
1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	ug/L			10/27/23 16:24	5
1,1,2-Trichloro-1,2,2-trifluoroethane	1.2	U	5.0	1.2	ug/L			10/27/23 16:24	5
1,1,2-Trichloroethane	1.6	U	5.0	1.6	ug/L			10/27/23 16:24	5
1,1-Dichloroethane	1.7	U	5.0	1.7	ug/L			10/27/23 16:24	5
1,1-Dichloroethene	1.7	U	5.0	1.7	ug/L			10/27/23 16:24	5
1,2,4-Trichlorobenzene	2.7	U	25	2.7	ug/L			10/27/23 16:24	5
1,2-Dibromo-3-Chloropropane	9.0	U	25	9.0	ug/L			10/27/23 16:24	5
1,2-Dibromoethane (EDB)	1.7	U	5.0	1.7	ug/L			10/27/23 16:24	5
1,2-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/27/23 16:24	5
1,2-Dichloroethane	1.3	U	5.0	1.3	ug/L			10/27/23 16:24	5
1,2-Dichloropropane	1.1	U	5.0	1.1	ug/L			10/27/23 16:24	5
1,3-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/27/23 16:24	5
1,4-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/27/23 16:24	5
2-Butanone (MEK)	32	U	50	32	ug/L			10/27/23 16:24	5

Client Sample ID: LC34-DPT-1009-025.0-20231020
Date Collected: 10/20/23 14:30
Date Received: 10/21/23 09:13

Lab Sample ID: 670-29049-34
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	16	U	50	16	ug/L			10/27/23 16:24	5
4-Methyl-2-pentanone	14	U	50	14	ug/L			10/27/23 16:24	5
Acetone	19	U	50	19	ug/L			10/27/23 16:24	5
Benzene	1.4	U	5.0	1.4	ug/L			10/27/23 16:24	5
Bromodichloromethane	1.3	U	5.0	1.3	ug/L			10/27/23 16:24	5
Bromoform	3.0	U	5.0	3.0	ug/L			10/27/23 16:24	5
Bromomethane	19	U	25	19	ug/L			10/27/23 16:24	5
Carbon disulfide	2.2	U	10	2.2	ug/L			10/27/23 16:24	5
Carbon tetrachloride	1.5	U	5.0	1.5	ug/L			10/27/23 16:24	5
Chlorobenzene	0.75	U	5.0	0.75	ug/L			10/27/23 16:24	5
Chloroethane	23	U J3	25	23	ug/L			10/27/23 16:24	5
Chloroform	1.4	U	5.0	1.4	ug/L			10/27/23 16:24	5
Chloromethane	2.7	U	5.0	2.7	ug/L			10/27/23 16:24	5
cis-1,2-Dichloroethene	**170**		5.0	1.3	ug/L			10/27/23 16:24	5
cis-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			10/27/23 16:24	5
Cyclohexane	1.4	U	5.0	1.4	ug/L			10/27/23 16:24	5
Dibromochloromethane	2.0	U	5.0	2.0	ug/L			10/27/23 16:24	5
Dichlorodifluoromethane	1.8	U	5.0	1.8	ug/L			10/27/23 16:24	5
Ethylbenzene	1.0	U	5.0	1.0	ug/L			10/27/23 16:24	5
Isopropylbenzene	1.3	U	5.0	1.3	ug/L			10/27/23 16:24	5
m,p-Xylenes	2.5	U	5.0	2.5	ug/L			10/27/23 16:24	5
Methyl acetate	16	U	25	16	ug/L			10/27/23 16:24	5
Methyl tert-butyl ether	4.1	U	25	4.1	ug/L			10/27/23 16:24	5
Methylene Chloride	16	U	25	16	ug/L			10/27/23 16:24	5
o-Xylene	1.3	U	5.0	1.3	ug/L			10/27/23 16:24	5
Styrene	1.4	U	5.0	1.4	ug/L			10/27/23 16:24	5
Tetrachloroethene	1.8	U	5.0	1.8	ug/L			10/27/23 16:24	5
Toluene	1.3	U	5.0	1.3	ug/L			10/27/23 16:24	5
trans-1,2-Dichloroethene	1.7	U	5.0	1.7	ug/L			10/27/23 16:24	5
trans-1,3-Dichloropropene	1.2	U	5.0	1.2	ug/L			10/27/23 16:24	5
Trichloroethene	1.0	U	5.0	1.0	ug/L			10/27/23 16:24	5
Trichlorofluoromethane	1.7	U	5.0	1.7	ug/L			10/27/23 16:24	5
Xylenes, Total	1.2	U	5.0	1.2	ug/L			10/27/23 16:24	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*		*10/27/23 16:24*	*5*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*		*10/27/23 16:24*	*5*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*10/27/23 16:24*	*5*
Toluene-d8 (Surr)	*99*		*70 - 130*		*10/27/23 16:24*	*5*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	**730**		10	4.0	ug/L			10/27/23 17:28	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*60 - 124*		*10/27/23 17:28*	*10*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*10/27/23 17:28*	*10*
Dibromofluoromethane (Surr)	*95*		*70 - 130*		*10/27/23 17:28*	*10*
Toluene-d8 (Surr)	*98*		*70 - 130*		*10/27/23 17:28*	*10*

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-29049-1

Client Sample ID: LC34-DPT-1009-034.0-20231020
Date Collected: 10/20/23 14:45
Date Received: 10/21/23 09:13

Lab Sample ID: 670-29049-35
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.3	U	25	5.3	ug/L			10/27/23 15:19	25
1,1,2,2-Tetrachloroethane	10	U	25	10	ug/L			10/27/23 15:19	25
1,1,2-Trichloro-1,2,2-trifluoroethane	5.8	U	25	5.8	ug/L			10/27/23 15:19	25
1,1,2-Trichloroethane	8.0	U	25	8.0	ug/L			10/27/23 15:19	25
1,1-Dichloroethane	8.3	U	25	8.3	ug/L			10/27/23 15:19	25
1,1-Dichloroethene	8.3	U	25	8.3	ug/L			10/27/23 15:19	25
1,2,4-Trichlorobenzene	13	U	130	13	ug/L			10/27/23 15:19	25
1,2-Dibromo-3-Chloropropane	45	U	130	45	ug/L			10/27/23 15:19	25
1,2-Dibromoethane (EDB)	8.3	U	25	8.3	ug/L			10/27/23 15:19	25
1,2-Dichlorobenzene	7.8	U	25	7.8	ug/L			10/27/23 15:19	25
1,2-Dichloroethane	6.3	U	25	6.3	ug/L			10/27/23 15:19	25
1,2-Dichloropropane	5.5	U	25	5.5	ug/L			10/27/23 15:19	25
1,3-Dichlorobenzene	7.8	U	25	7.8	ug/L			10/27/23 15:19	25
1,4-Dichlorobenzene	7.8	U	25	7.8	ug/L			10/27/23 15:19	25
2-Butanone (MEK)	160	U	250	160	ug/L			10/27/23 15:19	25
2-Hexanone	80	U	250	80	ug/L			10/27/23 15:19	25
4-Methyl-2-pentanone	68	U	250	68	ug/L			10/27/23 15:19	25
Acetone	93	U	250	93	ug/L			10/27/23 15:19	25
Benzene	**19**	**I**	25	6.8	ug/L			10/27/23 15:19	25
Bromodichloromethane	6.3	U	25	6.3	ug/L			10/27/23 15:19	25
Bromoform	15	U	25	15	ug/L			10/27/23 15:19	25
Bromomethane	93	U	130	93	ug/L			10/27/23 15:19	25
Carbon disulfide	11	U	50	11	ug/L			10/27/23 15:19	25
Carbon tetrachloride	7.5	U	25	7.5	ug/L			10/27/23 15:19	25
Chlorobenzene	3.8	U	25	3.8	ug/L			10/27/23 15:19	25
Chloroethane	120	U J3	130	120	ug/L			10/27/23 15:19	25
Chloroform	6.8	U	25	6.8	ug/L			10/27/23 15:19	25
Chloromethane	14	U	25	14	ug/L			10/27/23 15:19	25
cis-1,2-Dichloroethene	**1900**		25	6.3	ug/L			10/27/23 15:19	25
cis-1,3-Dichloropropene	6.5	U	25	6.5	ug/L			10/27/23 15:19	25
Cyclohexane	7.0	U	25	7.0	ug/L			10/27/23 15:19	25
Dibromochloromethane	9.8	U	25	9.8	ug/L			10/27/23 15:19	25
Dichlorodifluoromethane	9.0	U	25	9.0	ug/L			10/27/23 15:19	25
Ethylbenzene	**23**	**I**	25	5.0	ug/L			10/27/23 15:19	25
Isopropylbenzene	6.5	U	25	6.5	ug/L			10/27/23 15:19	25
m,p-Xylenes	**68**		25	12	ug/L			10/27/23 15:19	25
Methyl acetate	80	U	130	80	ug/L			10/27/23 15:19	25
Methyl tert-butyl ether	20	U	130	20	ug/L			10/27/23 15:19	25
Methylene Chloride	80	U	130	80	ug/L			10/27/23 15:19	25
o-Xylene	**17**	**I**	25	6.5	ug/L			10/27/23 15:19	25
Styrene	6.8	U	25	6.8	ug/L			10/27/23 15:19	25
Tetrachloroethene	8.8	U	25	8.8	ug/L			10/27/23 15:19	25
Toluene	**39**		25	6.3	ug/L			10/27/23 15:19	25
trans-1,2-Dichloroethene	**97**		25	8.5	ug/L			10/27/23 15:19	25
trans-1,3-Dichloropropene	5.8	U	25	5.8	ug/L			10/27/23 15:19	25
Trichloroethene	5.0	U	25	5.0	ug/L			10/27/23 15:19	25
Trichlorofluoromethane	8.3	U	25	8.3	ug/L			10/27/23 15:19	25
Vinyl chloride	**3300**		25	10	ug/L			10/27/23 15:19	25
Xylenes, Total	**85**		25	5.8	ug/L			10/27/23 15:19	25

Client Sample ID: LC34-DPT-1009-034.0-20231020

Lab Sample ID: 670-29049-35

Date Collected: 10/20/23 14:45
Matrix: Water
Date Received: 10/21/23 09:13

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*60 - 124*		*10/27/23 15:19*	*25*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*10/27/23 15:19*	*25*
Dibromofluoromethane (Surr)	*95*		*70 - 130*		*10/27/23 15:19*	*25*
Toluene-d8 (Surr)	*98*		*70 - 130*		*10/27/23 15:19*	*25*

Client Sample ID: LC34-DPT-1009-038.0-20231020

Lab Sample ID: 670-29049-36

Date Collected: 10/20/23 15:00
Matrix: Water
Date Received: 10/21/23 09:13

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	42	U	200	42	ug/L			10/27/23 14:57	200
1,1,2,2-Tetrachloroethane	80	U	200	80	ug/L			10/27/23 14:57	200
1,1,2-Trichloro-1,2,2-trifluoroethane	46	U	200	46	ug/L			10/27/23 14:57	200
1,1,2-Trichloroethane	64	U	200	64	ug/L			10/27/23 14:57	200
1,1-Dichloroethane	66	U	200	66	ug/L			10/27/23 14:57	200
1,1-Dichloroethene	66	U	200	66	ug/L			10/27/23 14:57	200
1,2,4-Trichlorobenzene	110	U	1000	110	ug/L			10/27/23 14:57	200
1,2-Dibromo-3-Chloropropane	360	U	1000	360	ug/L			10/27/23 14:57	200
1,2-Dibromoethane (EDB)	66	U	200	66	ug/L			10/27/23 14:57	200
1,2-Dichlorobenzene	62	U	200	62	ug/L			10/27/23 14:57	200
1,2-Dichloroethane	50	U	200	50	ug/L			10/27/23 14:57	200
1,2-Dichloropropane	44	U	200	44	ug/L			10/27/23 14:57	200
1,3-Dichlorobenzene	62	U	200	62	ug/L			10/27/23 14:57	200
1,4-Dichlorobenzene	62	U	200	62	ug/L			10/27/23 14:57	200
2-Butanone (MEK)	1300	U	2000	1300	ug/L			10/27/23 14:57	200
2-Hexanone	640	U	2000	640	ug/L			10/27/23 14:57	200
4-Methyl-2-pentanone	540	U	2000	540	ug/L			10/27/23 14:57	200
Acetone	740	U	2000	740	ug/L			10/27/23 14:57	200
Benzene	**140**	**I**	200	54	ug/L			10/27/23 14:57	200
Bromodichloromethane	50	U	200	50	ug/L			10/27/23 14:57	200
Bromoform	120	U	200	120	ug/L			10/27/23 14:57	200
Bromomethane	740	U	1000	740	ug/L			10/27/23 14:57	200
Carbon disulfide	86	U	400	86	ug/L			10/27/23 14:57	200
Carbon tetrachloride	60	U	200	60	ug/L			10/27/23 14:57	200
Chlorobenzene	30	U	200	30	ug/L			10/27/23 14:57	200
Chloroethane	920	U J3	1000	920	ug/L			10/27/23 14:57	200
Chloroform	54	U	200	54	ug/L			10/27/23 14:57	200
Chloromethane	110	U	200	110	ug/L			10/27/23 14:57	200
cis-1,2-Dichloroethene	**33000**		200	50	ug/L			10/27/23 14:57	200
cis-1,3-Dichloropropene	52	U	200	52	ug/L			10/27/23 14:57	200
Cyclohexane	56	U	200	56	ug/L			10/27/23 14:57	200
Dibromochloromethane	78	U	200	78	ug/L			10/27/23 14:57	200
Dichlorodifluoromethane	72	U	200	72	ug/L			10/27/23 14:57	200
Ethylbenzene	40	U	200	40	ug/L			10/27/23 14:57	200
Isopropylbenzene	52	U	200	52	ug/L			10/27/23 14:57	200
m,p-Xylenes	98	U	200	98	ug/L			10/27/23 14:57	200
Methyl acetate	640	U	1000	640	ug/L			10/27/23 14:57	200
Methyl tert-butyl ether	160	U	1000	160	ug/L			10/27/23 14:57	200
Methylene Chloride	640	U	1000	640	ug/L			10/27/23 14:57	200

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-29049-1

Client Sample ID: LC34-DPT-1009-038.0-20231020
Date Collected: 10/20/23 15:00
Date Received: 10/21/23 09:13

Lab Sample ID: 670-29049-36
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	52	U	200	52	ug/L			10/27/23 14:57	200
Styrene	54	U	200	54	ug/L			10/27/23 14:57	200
Tetrachloroethene	70	U	200	70	ug/L			10/27/23 14:57	200
Toluene	50	U	200	50	ug/L			10/27/23 14:57	200
trans-1,2-Dichloroethene	**560**		200	68	ug/L			10/27/23 14:57	200
trans-1,3-Dichloropropene	46	U	200	46	ug/L			10/27/23 14:57	200
Trichloroethene	40	U	200	40	ug/L			10/27/23 14:57	200
Trichlorofluoromethane	66	U	200	66	ug/L			10/27/23 14:57	200
Vinyl chloride	**8000**		200	80	ug/L			10/27/23 14:57	200
Xylenes, Total	46	U	200	46	ug/L			10/27/23 14:57	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*60 - 124*		*10/27/23 14:57*	*200*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*		*10/27/23 14:57*	*200*
Dibromofluoromethane (Surr)	*95*		*70 - 130*		*10/27/23 14:57*	*200*
Toluene-d8 (Surr)	*98*		*70 - 130*		*10/27/23 14:57*	*200*

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-29049-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(60-124)	(70-130)	(70-130)	(70-130)
670-29049-1	LC34-DPT-1004-038.0-20231019	77	106	104	105
670-29049-2	LC34-DPT-1004-032.0-20231019	82	103	105	106
670-29049-3	LC34-DPT-1004-025.0-20231019	81	98	105	107
670-29049-4	LC34-DPT-1004-018.0-20231019	83	102	101	107
670-29049-4 - DL	LC34-DPT-1004-018.0-20231019	86	98	110	94
670-29049-5	LC34-DPT-1004-013.0-20231019	81	102	106	107
670-29049-6	LC34-DPT-1004-008.0-20231019	81	104	107	106
670-29049-7	LC34-DPT-1005-038.0-20231019	98	97	105	96
670-29049-8	LC34-DPT-1005-032.0-20231019	98	98	98	94
670-29049-9	LC34-DPT-1005-025.0-20231019	97	104	97	99
670-29049-10	LC34-DPT-1005-018.0-20231019	100	105	100	95
670-29049-11	LC34-DPT-1005-013.0-20231019	97	97	97	96
670-29049-12	LC34-DPT-1005-008.0-20231019	98	100	98	98
670-29049-13	LC34-DPT-1006-038.0-20231020	93	92	95	98
670-29049-14	LC34-DPT-1006-032.0-20231020	93	90	94	98
670-29049-15	LC34-DPT-1006-025.0-20231020	94	91	96	97
670-29049-16	LC34-DPT-1006-018.0-20231020	95	93	95	97
670-29049-17	LC34-DPT-1006-013.0-20231020	95	92	97	97
670-29049-18	LC34-DPT-1006-008.0-20231020	94	92	96	98
670-29049-19	LC34-DPT-1007-038.0-20231020	95	90	94	97
670-29049-20	LC34-DPT-1007-032.0-20231020	93	91	95	98
670-29049-21	LC34-DPT-1007-025.0-20231020	89	106	95	113
670-29049-22	LC34-DPT-1007-018.0-20231020	94	93	97	98
670-29049-23	LC34-DPT-1007-013.0-20231020	93	90	95	98
670-29049-24	LC34-DPT-1007-008.0-20231020	94	91	94	98
670-29049-25	LC34-DPT-1008-038.0-20231020	95	92	96	99
670-29049-26	LC34-DPT-1008-032.0-20231020	94	91	97	99
670-29049-27	LC34-DPT-1008-025.0-20231020	95	91	96	99

Surrogate Summary

Client: Tetra Tech, Inc.
Job ID: 670-29049-1
Project/Site: NASA KSC LC34 DPT

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Matrix: Water
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(60-124)	(70-130)	(70-130)	(70-130)
670-29049-28	LC34-DPT-1008-018.0-2023102	95	91	97	98
670-29049-29	LC34-DPT-1008-013.0-202310 20	95	93	95	99
670-29049-30	LC34-DPT-1008-008.0-202310 20	94	92	96	98
670-29049-31	LC34-DPT-1009-008.0-202310 20	95	93	94	97
670-29049-32	LC34-DPT-1009-013.0-202310 20	94	90	95	98
670-29049-33	LC34-DPT-1009-018.0-202310 20	96	90	96	99
670-29049-34	LC34-DPT-1009-025.0-202310 20	94	91	97	99
670-29049-34 - DL	LC34-DPT-1009-025.0-202310 20	92	92	95	98
670-29049-35	LC34-DPT-1009-034.0-202310 20	93	93	95	98
670-29049-36	LC34-DPT-1009-038.0-202310 20	93	91	95	98
680-242028-B-24 MS	Matrix Spike	71	60 J1	74	78
680-242028-C-24 MSD	Matrix Spike Duplicate	91	78	94	98
LCS 680-804679/4	Lab Control Sample	118	94	112	109
LCS 680-804696/3	Lab Control Sample	99	94	106	106
LCS 680-804880/7	Lab Control Sample	108	90	109	113
LCS 680-805008/4	Lab Control Sample	108	89	110	113
LCS 680-805311/6	Lab Control Sample	94	106	98	103
LCSD 680-804679/5	Lab Control Sample Dup	113	96	113	108
LCSD 680-804696/4	Lab Control Sample Dup	104	94	108	108
LCSD 680-804880/8	Lab Control Sample Dup	108	88	109	112
LCSD 680-805008/5	Lab Control Sample Dup	108	89	111	111
LCSD 680-805311/7	Lab Control Sample Dup	95	104	100	97
MB 680-804679/8	Method Blank	98	103	103	98
MB 680-804696/7	Method Blank	80	105	107	109
MB 680-804880/5	Method Blank	93	93	93	96
MB 680-805008/8	Method Blank	94	91	95	98
MB 680-805311/11	Method Blank	83	119	96	109

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-29049-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 680-804679/8
Matrix: Water
Analysis Batch: 804679

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/26/23 10:30	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/26/23 10:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/26/23 10:30	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/26/23 10:30	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/26/23 10:30	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/26/23 10:30	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/26/23 10:30	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/26/23 10:30	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/26/23 10:30	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/26/23 10:30	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/26/23 10:30	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/26/23 10:30	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/26/23 10:30	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/26/23 10:30	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/26/23 10:30	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/26/23 10:30	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/26/23 10:30	1
Acetone	3.7	U	10	3.7	ug/L			10/26/23 10:30	1
Benzene	0.27	U	1.0	0.27	ug/L			10/26/23 10:30	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/26/23 10:30	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/26/23 10:30	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/26/23 10:30	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/26/23 10:30	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/26/23 10:30	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/26/23 10:30	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/26/23 10:30	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/26/23 10:30	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/26/23 10:30	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/26/23 10:30	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/26/23 10:30	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/26/23 10:30	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/26/23 10:30	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/26/23 10:30	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/26/23 10:30	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/26/23 10:30	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/26/23 10:30	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/26/23 10:30	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/26/23 10:30	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/26/23 10:30	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/26/23 10:30	1
Styrene	0.27	U	1.0	0.27	ug/L			10/26/23 10:30	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/26/23 10:30	1
Toluene	0.25	U	1.0	0.25	ug/L			10/26/23 10:30	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/26/23 10:30	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/26/23 10:30	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/26/23 10:30	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/26/23 10:30	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/26/23 10:30	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-804679/8
Matrix: Water
Analysis Batch: 804679

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/26/23 10:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 124*		*10/26/23 10:30*	*1*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*10/26/23 10:30*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*10/26/23 10:30*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*10/26/23 10:30*	*1*

Lab Sample ID: LCS 680-804679/4
Matrix: Water
Analysis Batch: 804679

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	54.4		ug/L		109	70 - 130
1,1,2,2-Tetrachloroethane	50.0	46.5		ug/L		93	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	43.5		ug/L		87	63 - 141
1,1,2-Trichloroethane	50.0	54.9		ug/L		110	70 - 130
1,1-Dichloroethane	50.0	53.7		ug/L		107	70 - 130
1,1-Dichloroethene	50.0	46.1		ug/L		92	70 - 130
1,2,4-Trichlorobenzene	50.0	43.2		ug/L		86	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	37.0		ug/L		74	70 - 130
1,2-Dibromoethane (EDB)	50.0	56.4		ug/L		113	70 - 130
1,2-Dichlorobenzene	50.0	45.2		ug/L		90	70 - 130
1,2-Dichloroethane	50.0	54.5		ug/L		109	70 - 130
1,2-Dichloropropane	50.0	53.3		ug/L		107	70 - 130
1,3-Dichlorobenzene	50.0	45.3		ug/L		91	70 - 130
1,4-Dichlorobenzene	50.0	45.9		ug/L		92	70 - 130
2-Butanone (MEK)	250	185		ug/L		74	69 - 120
2-Hexanone	250	266		ug/L		106	70 - 130
4-Methyl-2-pentanone	250	232		ug/L		93	68 - 120
Acetone	250	216		ug/L		87	67 - 120
Benzene	50.0	52.8		ug/L		106	70 - 130
Bromodichloromethane	50.0	55.8		ug/L		112	70 - 130
Bromoform	50.0	38.6		ug/L		77	69 - 129
Bromomethane	50.0	80.8		ug/L		162	28 - 192
Carbon disulfide	50.0	48.7		ug/L		97	70 - 130
Carbon tetrachloride	50.0	51.3		ug/L		103	70 - 130
Chlorobenzene	50.0	47.4		ug/L		95	70 - 130
Chloroethane	50.0	102		ug/L		203	31 - 213
Chloroform	50.0	54.8		ug/L		110	70 - 130
Chloromethane	50.0	50.0		ug/L		100	59 - 127
cis-1,2-Dichloroethene	50.0	53.7		ug/L		107	70 - 130
cis-1,3-Dichloropropene	50.0	56.1		ug/L		112	70 - 130
Cyclohexane	50.0	50.2		ug/L		100	23 - 175
Dibromochloromethane	50.0	50.5		ug/L		101	70 - 130
Dichlorodifluoromethane	50.0	66.7	J3	ug/L		133	70 - 130
Ethylbenzene	50.0	46.8		ug/L		94	70 - 130
Isopropylbenzene	50.0	47.5		ug/L		95	70 - 130

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-804679/4
Matrix: Water
Analysis Batch: 804679

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
m,p-Xylenes	50.0	48.1		ug/L		96	70 - 130
Methyl acetate	100	94.2		ug/L		94	67 - 120
Methyl tert-butyl ether	50.0	48.0		ug/L		96	70 - 130
Methylene Chloride	50.0	51.7		ug/L		103	70 - 130
o-Xylene	50.0	47.4		ug/L		95	70 - 130
Styrene	50.0	47.7		ug/L		95	70 - 130
Tetrachloroethene	50.0	52.3		ug/L		105	70 - 130
Toluene	50.0	54.1		ug/L		108	70 - 130
trans-1,2-Dichloroethene	50.0	53.3		ug/L		107	70 - 130
trans-1,3-Dichloropropene	50.0	51.5		ug/L		103	70 - 130
Trichloroethene	50.0	52.9		ug/L		106	70 - 130
Trichlorofluoromethane	50.0	97.3	J3	ug/L		195	63 - 142
Vinyl chloride	50.0	53.2		ug/L		106	66 - 129
Xylenes, Total	100	95.5		ug/L		96	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*118*		*60 - 124*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
Dibromofluoromethane (Surr)	*112*		*70 - 130*
Toluene-d8 (Surr)	*109*		*70 - 130*

Lab Sample ID: LCSD 680-804679/5
Matrix: Water
Analysis Batch: 804679

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	50.0	55.2		ug/L		110	70 - 130	1	30
1,1,2,2-Tetrachloroethane	50.0	45.1		ug/L		90	70 - 130	3	30
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	47.9		ug/L		96	63 - 141	10	30
1,1,2-Trichloroethane	50.0	54.1		ug/L		108	70 - 130	2	30
1,1-Dichloroethane	50.0	54.9		ug/L		110	70 - 130	2	30
1,1-Dichloroethene	50.0	56.2		ug/L		112	70 - 130	20	20
1,2,4-Trichlorobenzene	50.0	43.1		ug/L		86	70 - 130	0	30
1,2-Dibromo-3-Chloropropane	50.0	36.5		ug/L		73	70 - 130	1	30
1,2-Dibromoethane (EDB)	50.0	56.0		ug/L		112	70 - 130	1	30
1,2-Dichlorobenzene	50.0	45.7		ug/L		91	70 - 130	1	30
1,2-Dichloroethane	50.0	55.6		ug/L		111	70 - 130	2	50
1,2-Dichloropropane	50.0	53.3		ug/L		107	70 - 130	0	20
1,3-Dichlorobenzene	50.0	46.2		ug/L		92	70 - 130	2	30
1,4-Dichlorobenzene	50.0	46.4		ug/L		93	70 - 130	1	30
2-Butanone (MEK)	250	191		ug/L		76	69 - 120	3	30
2-Hexanone	250	256		ug/L		102	70 - 130	4	20
4-Methyl-2-pentanone	250	222		ug/L		89	68 - 120	4	30
Acetone	250	238		ug/L		95	67 - 120	10	30
Benzene	50.0	53.3		ug/L		107	70 - 130	1	30
Bromodichloromethane	50.0	55.8		ug/L		112	70 - 130	0	30
Bromoform	50.0	37.5		ug/L		75	69 - 129	3	30
Bromomethane	50.0	80.0		ug/L		160	28 - 192	1	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-804679/5
Matrix: Water
Analysis Batch: 804679

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon disulfide			50.0	50.1		ug/L		100	70 - 130	3	30
Carbon tetrachloride			50.0	52.5		ug/L		105	70 - 130	2	30
Chlorobenzene			50.0	48.0		ug/L		96	70 - 130	1	30
Chloroethane			50.0	68.3	J3	ug/L		137	31 - 213	39	30
Chloroform			50.0	55.8		ug/L		112	70 - 130	2	30
Chloromethane			50.0	51.5		ug/L		103	59 - 127	3	30
cis-1,2-Dichloroethene			50.0	55.4		ug/L		111	70 - 130	3	30
cis-1,3-Dichloropropene			50.0	55.8		ug/L		112	70 - 130	1	20
Cyclohexane			50.0	51.4		ug/L		103	23 - 175	2	30
Dibromochloromethane			50.0	48.4		ug/L		97	70 - 130	4	30
Dichlorodifluoromethane			50.0	67.2	J3	ug/L		134	70 - 130	1	40
Ethylbenzene			50.0	47.5		ug/L		95	70 - 130	2	20
Isopropylbenzene			50.0	48.2		ug/L		96	70 - 130	1	30
m,p-Xylenes			50.0	49.0		ug/L		98	70 - 130	2	30
Methyl acetate			100	95.6		ug/L		96	67 - 120	1	30
Methyl tert-butyl ether			50.0	46.1		ug/L		92	70 - 130	4	30
Methylene Chloride			50.0	53.8		ug/L		108	70 - 130	4	30
o-Xylene			50.0	47.9		ug/L		96	70 - 130	1	30
Styrene			50.0	48.5		ug/L		97	70 - 130	2	30
Tetrachloroethene			50.0	52.0		ug/L		104	70 - 130	1	30
Toluene			50.0	54.0		ug/L		108	70 - 130	0	30
trans-1,2-Dichloroethene			50.0	54.9		ug/L		110	70 - 130	3	30
trans-1,3-Dichloropropene			50.0	51.2		ug/L		102	70 - 130	1	30
Trichloroethene			50.0	53.7		ug/L		107	70 - 130	1	30
Trichlorofluoromethane			50.0	98.0	J3	ug/L		196	63 - 142	1	30
Vinyl chloride			50.0	54.5		ug/L		109	66 - 129	2	30
Xylenes, Total			100	96.9		ug/L		97	70 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*113*		*60 - 124*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
Dibromofluoromethane (Surr)	*113*		*70 - 130*
Toluene-d8 (Surr)	*108*		*70 - 130*

Lab Sample ID: MB 680-804696/7
Matrix: Water
Analysis Batch: 804696

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/26/23 10:12	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/26/23 10:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/26/23 10:12	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/26/23 10:12	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/26/23 10:12	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/26/23 10:12	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/26/23 10:12	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/26/23 10:12	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/26/23 10:12	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-804696/7
Matrix: Water
Analysis Batch: 804696

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/26/23 10:12	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/26/23 10:12	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/26/23 10:12	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/26/23 10:12	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/26/23 10:12	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/26/23 10:12	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/26/23 10:12	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/26/23 10:12	1
Acetone	3.7	U	10	3.7	ug/L			10/26/23 10:12	1
Benzene	0.27	U	1.0	0.27	ug/L			10/26/23 10:12	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/26/23 10:12	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/26/23 10:12	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/26/23 10:12	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/26/23 10:12	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/26/23 10:12	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/26/23 10:12	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/26/23 10:12	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/26/23 10:12	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/26/23 10:12	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/26/23 10:12	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/26/23 10:12	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/26/23 10:12	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/26/23 10:12	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/26/23 10:12	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/26/23 10:12	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/26/23 10:12	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/26/23 10:12	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/26/23 10:12	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/26/23 10:12	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/26/23 10:12	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/26/23 10:12	1
Styrene	0.27	U	1.0	0.27	ug/L			10/26/23 10:12	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/26/23 10:12	1
Toluene	0.25	U	1.0	0.25	ug/L			10/26/23 10:12	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/26/23 10:12	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/26/23 10:12	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/26/23 10:12	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/26/23 10:12	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/26/23 10:12	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/26/23 10:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*80*		*60 - 124*		*10/26/23 10:12*	*1*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*10/26/23 10:12*	*1*
Dibromofluoromethane (Surr)	*107*		*70 - 130*		*10/26/23 10:12*	*1*
Toluene-d8 (Surr)	*109*		*70 - 130*		*10/26/23 10:12*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-804696/3
Matrix: Water
Analysis Batch: 804696

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	46.6		ug/L		93	70 - 130
1,1,2,2-Tetrachloroethane	50.0	48.8		ug/L		98	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	54.2		ug/L		108	63 - 141
1,1,2-Trichloroethane	50.0	48.7		ug/L		97	70 - 130
1,1-Dichloroethane	50.0	47.3		ug/L		95	70 - 130
1,1-Dichloroethene	50.0	53.0		ug/L		106	70 - 130
1,2,4-Trichlorobenzene	50.0	53.5		ug/L		107	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	49.1		ug/L		98	70 - 130
1,2-Dibromoethane (EDB)	50.0	46.6		ug/L		93	70 - 130
1,2-Dichlorobenzene	50.0	49.7		ug/L		99	70 - 130
1,2-Dichloroethane	50.0	46.0		ug/L		92	70 - 130
1,2-Dichloropropane	50.0	45.1		ug/L		90	70 - 130
1,3-Dichlorobenzene	50.0	48.9		ug/L		98	70 - 130
1,4-Dichlorobenzene	50.0	49.1		ug/L		98	70 - 130
2-Butanone (MEK)	250	182		ug/L		73	69 - 120
2-Hexanone	250	224		ug/L		90	70 - 130
4-Methyl-2-pentanone	250	216		ug/L		87	68 - 120
Acetone	250	236		ug/L		94	67 - 120
Benzene	50.0	47.9		ug/L		96	70 - 130
Bromodichloromethane	50.0	47.0		ug/L		94	70 - 130
Bromoform	50.0	47.4		ug/L		95	69 - 129
Bromomethane	50.0	71.5		ug/L		143	28 - 192
Carbon disulfide	50.0	42.2		ug/L		84	70 - 130
Carbon tetrachloride	50.0	49.3		ug/L		99	70 - 130
Chlorobenzene	50.0	50.7		ug/L		101	70 - 130
Chloroethane	50.0	79.8		ug/L		160	31 - 213
Chloroform	50.0	51.6		ug/L		103	70 - 130
Chloromethane	50.0	71.5	J3	ug/L		143	59 - 127
cis-1,2-Dichloroethene	50.0	50.0		ug/L		100	70 - 130
cis-1,3-Dichloropropene	50.0	45.9		ug/L		92	70 - 130
Cyclohexane	50.0	42.4		ug/L		85	23 - 175
Dibromochloromethane	50.0	48.6		ug/L		97	70 - 130
Dichlorodifluoromethane	50.0	57.0		ug/L		114	70 - 130
Ethylbenzene	50.0	50.6		ug/L		101	70 - 130
Isopropylbenzene	50.0	52.7		ug/L		105	70 - 130
m,p-Xylenes	50.0	52.1		ug/L		104	70 - 130
Methyl acetate	100	69.1		ug/L		69	67 - 120
Methyl tert-butyl ether	50.0	45.2		ug/L		90	70 - 130
Methylene Chloride	50.0	53.1		ug/L		106	70 - 130
o-Xylene	50.0	50.6		ug/L		101	70 - 130
Styrene	50.0	52.0		ug/L		104	70 - 130
Tetrachloroethene	50.0	51.3		ug/L		103	70 - 130
Toluene	50.0	49.9		ug/L		100	70 - 130
trans-1,2-Dichloroethene	50.0	53.9		ug/L		108	70 - 130
trans-1,3-Dichloropropene	50.0	49.7		ug/L		99	70 - 130
Trichloroethene	50.0	49.9		ug/L		100	70 - 130
Trichlorofluoromethane	50.0	52.3		ug/L		105	63 - 142
Vinyl chloride	50.0	49.8		ug/L		100	66 - 129

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-804696/3
Matrix: Water
Analysis Batch: 804696

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Xylenes, Total			100	103		ug/L		103	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 124*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
Dibromofluoromethane (Surr)	*106*		*70 - 130*
Toluene-d8 (Surr)	*106*		*70 - 130*

Lab Sample ID: LCSD 680-804696/4
Matrix: Water
Analysis Batch: 804696

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane			50.0	48.4		ug/L		97	70 - 130	4	30
1,1,2,2-Tetrachloroethane			50.0	49.6		ug/L		99	70 - 130	2	30
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	48.1		ug/L		96	63 - 141	12	30
1,1,2-Trichloroethane			50.0	48.4		ug/L		97	70 - 130	1	30
1,1-Dichloroethane			50.0	48.9		ug/L		98	70 - 130	3	30
1,1-Dichloroethene			50.0	40.8	J3	ug/L		82	70 - 130	26	20
1,2,4-Trichlorobenzene			50.0	52.6		ug/L		105	70 - 130	2	30
1,2-Dibromo-3-Chloropropane			50.0	49.8		ug/L		100	70 - 130	1	30
1,2-Dibromoethane (EDB)			50.0	48.5		ug/L		97	70 - 130	4	30
1,2-Dichlorobenzene			50.0	49.5		ug/L		99	70 - 130	0	30
1,2-Dichloroethane			50.0	49.1		ug/L		98	70 - 130	7	50
1,2-Dichloropropane			50.0	47.0		ug/L		94	70 - 130	4	20
1,3-Dichlorobenzene			50.0	49.7		ug/L		99	70 - 130	2	30
1,4-Dichlorobenzene			50.0	49.4		ug/L		99	70 - 130	1	30
2-Butanone (MEK)			250	203		ug/L		81	69 - 120	11	30
2-Hexanone			250	233		ug/L		93	70 - 130	4	20
4-Methyl-2-pentanone			250	225		ug/L		90	68 - 120	4	30
Acetone			250	224		ug/L		90	67 - 120	5	30
Benzene			50.0	48.4		ug/L		97	70 - 130	1	30
Bromodichloromethane			50.0	48.4		ug/L		97	70 - 130	3	30
Bromoform			50.0	46.7		ug/L		93	69 - 129	2	30
Bromomethane			50.0	60.4		ug/L		121	28 - 192	17	30
Carbon disulfide			50.0	38.7		ug/L		77	70 - 130	9	30
Carbon tetrachloride			50.0	50.7		ug/L		101	70 - 130	3	30
Chlorobenzene			50.0	51.6		ug/L		103	70 - 130	2	30
Chloroethane			50.0	57.4	J3	ug/L		115	31 - 213	33	30
Chloroform			50.0	52.3		ug/L		105	70 - 130	1	30
Chloromethane			50.0	64.0	J3	ug/L		128	59 - 127	11	30
cis-1,2-Dichloroethene			50.0	53.2		ug/L		106	70 - 130	6	30
cis-1,3-Dichloropropene			50.0	47.2		ug/L		94	70 - 130	3	20
Cyclohexane			50.0	43.4		ug/L		87	23 - 175	2	30
Dibromochloromethane			50.0	47.6		ug/L		95	70 - 130	2	30
Dichlorodifluoromethane			50.0	48.6		ug/L		97	70 - 130	16	40
Ethylbenzene			50.0	51.1		ug/L		102	70 - 130	1	20
Isopropylbenzene			50.0	51.8		ug/L		104	70 - 130	2	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-804696/4
Matrix: Water
Analysis Batch: 804696

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m,p-Xylenes			50.0	51.6		ug/L		103	70 - 130	1	30
Methyl acetate			100	82.2		ug/L		82	67 - 120	17	30
Methyl tert-butyl ether			50.0	43.6		ug/L		87	70 - 130	4	30
Methylene Chloride			50.0	49.2		ug/L		98	70 - 130	8	30
o-Xylene			50.0	50.3		ug/L		101	70 - 130	1	30
Styrene			50.0	52.8		ug/L		106	70 - 130	2	30
Tetrachloroethene			50.0	50.5		ug/L		101	70 - 130	2	30
Toluene			50.0	49.9		ug/L		100	70 - 130	0	30
trans-1,2-Dichloroethene			50.0	50.1		ug/L		100	70 - 130	7	30
trans-1,3-Dichloropropene			50.0	51.3		ug/L		103	70 - 130	3	30
Trichloroethene			50.0	50.0		ug/L		100	70 - 130	0	30
Trichlorofluoromethane			50.0	54.2		ug/L		108	63 - 142	4	30
Vinyl chloride			50.0	43.2		ug/L		86	66 - 129	14	30
Xylenes, Total			100	102		ug/L		102	70 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 124*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
Dibromofluoromethane (Surr)	*108*		*70 - 130*
Toluene-d8 (Surr)	*108*		*70 - 130*

Lab Sample ID: MB 680-804880/5
Matrix: Water
Analysis Batch: 804880

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/26/23 19:46	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/26/23 19:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/26/23 19:46	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/26/23 19:46	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/26/23 19:46	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/26/23 19:46	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/26/23 19:46	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/26/23 19:46	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/26/23 19:46	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/26/23 19:46	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/26/23 19:46	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/26/23 19:46	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/26/23 19:46	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/26/23 19:46	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/26/23 19:46	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/26/23 19:46	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/26/23 19:46	1
Acetone	3.7	U	10	3.7	ug/L			10/26/23 19:46	1
Benzene	0.27	U	1.0	0.27	ug/L			10/26/23 19:46	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/26/23 19:46	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/26/23 19:46	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/26/23 19:46	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-804880/5
Matrix: Water
Analysis Batch: 804880

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/26/23 19:46	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/26/23 19:46	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/26/23 19:46	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/26/23 19:46	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/26/23 19:46	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/26/23 19:46	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/26/23 19:46	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/26/23 19:46	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/26/23 19:46	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/26/23 19:46	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/26/23 19:46	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/26/23 19:46	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/26/23 19:46	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/26/23 19:46	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/26/23 19:46	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/26/23 19:46	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/26/23 19:46	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/26/23 19:46	1
Styrene	0.27	U	1.0	0.27	ug/L			10/26/23 19:46	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/26/23 19:46	1
Toluene	0.25	U	1.0	0.25	ug/L			10/26/23 19:46	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/26/23 19:46	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/26/23 19:46	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/26/23 19:46	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/26/23 19:46	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/26/23 19:46	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/26/23 19:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*60 - 124*		*10/26/23 19:46*	*1*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*10/26/23 19:46*	*1*
Dibromofluoromethane (Surr)	*93*		*70 - 130*		*10/26/23 19:46*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*10/26/23 19:46*	*1*

Lab Sample ID: LCS 680-804880/7
Matrix: Water
Analysis Batch: 804880

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	52.0		ug/L		104	70 - 130
1,1,2,2-Tetrachloroethane	50.0	45.0		ug/L		90	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	55.3		ug/L		111	63 - 141
1,1,2-Trichloroethane	50.0	54.0		ug/L		108	70 - 130
1,1-Dichloroethane	50.0	55.3		ug/L		111	70 - 130
1,1-Dichloroethene	50.0	52.4		ug/L		105	70 - 130
1,2,4-Trichlorobenzene	50.0	43.9		ug/L		88	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	37.7		ug/L		75	70 - 130
1,2-Dibromoethane (EDB)	50.0	53.7		ug/L		107	70 - 130

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-804880/7
Matrix: Water
Analysis Batch: 804880

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichlorobenzene	50.0	46.8		ug/L		94	70 - 130
1,2-Dichloroethane	50.0	54.6		ug/L		109	70 - 130
1,2-Dichloropropane	50.0	55.2		ug/L		110	70 - 130
1,3-Dichlorobenzene	50.0	46.8		ug/L		94	70 - 130
1,4-Dichlorobenzene	50.0	46.4		ug/L		93	70 - 130
2-Butanone (MEK)	250	208		ug/L		83	69 - 120
2-Hexanone	250	247		ug/L		99	70 - 130
4-Methyl-2-pentanone	250	255		ug/L		102	68 - 120
Acetone	250	245		ug/L		98	67 - 120
Benzene	50.0	55.2		ug/L		110	70 - 130
Bromodichloromethane	50.0	51.2		ug/L		102	70 - 130
Bromoform	50.0	37.7		ug/L		75	69 - 129
Bromomethane	50.0	46.4		ug/L		93	28 - 192
Carbon disulfide	50.0	47.1		ug/L		94	70 - 130
Carbon tetrachloride	50.0	47.9		ug/L		96	70 - 130
Chlorobenzene	50.0	48.4		ug/L		97	70 - 130
Chloroethane	50.0	120	J3	ug/L		241	31 - 213
Chloroform	50.0	53.2		ug/L		106	70 - 130
Chloromethane	50.0	56.8		ug/L		114	59 - 127
cis-1,2-Dichloroethene	50.0	53.5		ug/L		107	70 - 130
cis-1,3-Dichloropropene	50.0	52.2		ug/L		104	70 - 130
Cyclohexane	50.0	52.5		ug/L		105	23 - 175
Dibromochloromethane	50.0	48.8		ug/L		98	70 - 130
Dichlorodifluoromethane	50.0	59.3		ug/L		119	70 - 130
Ethylbenzene	50.0	47.9		ug/L		96	70 - 130
Isopropylbenzene	50.0	47.5		ug/L		95	70 - 130
m,p-Xylenes	50.0	47.0		ug/L		94	70 - 130
Methyl acetate	100	96.5		ug/L		96	67 - 120
Methyl tert-butyl ether	50.0	52.9		ug/L		106	70 - 130
Methylene Chloride	50.0	55.1		ug/L		110	70 - 130
o-Xylene	50.0	47.2		ug/L		94	70 - 130
Styrene	50.0	46.8		ug/L		94	70 - 130
Tetrachloroethene	50.0	54.3		ug/L		109	70 - 130
Toluene	50.0	54.8		ug/L		110	70 - 130
trans-1,2-Dichloroethene	50.0	53.6		ug/L		107	70 - 130
trans-1,3-Dichloropropene	50.0	50.8		ug/L		102	70 - 130
Trichloroethene	50.0	54.9		ug/L		110	70 - 130
Trichlorofluoromethane	50.0	60.6		ug/L		121	63 - 142
Vinyl chloride	50.0	59.3		ug/L		119	66 - 129
Xylenes, Total	100	94.2		ug/L		94	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*108*		*60 - 124*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*
Dibromofluoromethane (Surr)	*109*		*70 - 130*
Toluene-d8 (Surr)	*113*		*70 - 130*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-804880/8
Matrix: Water
Analysis Batch: 804880

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane			50.0	50.8		ug/L		102	70 - 130	2	30
1,1,2,2-Tetrachloroethane			50.0	47.2		ug/L		94	70 - 130	5	30
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	55.4		ug/L		111	63 - 141	0	30
1,1,2-Trichloroethane			50.0	54.0		ug/L		108	70 - 130	0	30
1,1-Dichloroethane			50.0	54.9		ug/L		110	70 - 130	1	30
1,1-Dichloroethene			50.0	51.8		ug/L		104	70 - 130	1	20
1,2,4-Trichlorobenzene			50.0	44.9		ug/L		90	70 - 130	2	30
1,2-Dibromo-3-Chloropropane			50.0	41.2		ug/L		82	70 - 130	9	30
1,2-Dibromoethane (EDB)			50.0	53.7		ug/L		107	70 - 130	0	30
1,2-Dichlorobenzene			50.0	46.7		ug/L		93	70 - 130	0	30
1,2-Dichloroethane			50.0	53.6		ug/L		107	70 - 130	2	50
1,2-Dichloropropane			50.0	54.2		ug/L		108	70 - 130	2	20
1,3-Dichlorobenzene			50.0	46.2		ug/L		92	70 - 130	1	30
1,4-Dichlorobenzene			50.0	46.1		ug/L		92	70 - 130	1	30
2-Butanone (MEK)			250	230		ug/L		92	69 - 120	10	30
2-Hexanone			250	270		ug/L		108	70 - 130	9	20
4-Methyl-2-pentanone			250	274		ug/L		110	68 - 120	7	30
Acetone			250	261		ug/L		104	67 - 120	6	30
Benzene			50.0	54.5		ug/L		109	70 - 130	1	30
Bromodichloromethane			50.0	50.8		ug/L		102	70 - 130	1	30
Bromoform			50.0	39.1		ug/L		78	69 - 129	3	30
Bromomethane			50.0	49.5		ug/L		99	28 - 192	6	30
Carbon disulfide			50.0	46.4		ug/L		93	70 - 130	1	30
Carbon tetrachloride			50.0	48.9		ug/L		98	70 - 130	2	30
Chlorobenzene			50.0	48.3		ug/L		97	70 - 130	0	30
Chloroethane			50.0	95.3		ug/L		191	31 - 213	23	30
Chloroform			50.0	51.6		ug/L		103	70 - 130	3	30
Chloromethane			50.0	56.4		ug/L		113	59 - 127	1	30
cis-1,2-Dichloroethene			50.0	53.1		ug/L		106	70 - 130	1	30
cis-1,3-Dichloropropene			50.0	51.5		ug/L		103	70 - 130	1	20
Cyclohexane			50.0	51.6		ug/L		103	23 - 175	2	30
Dibromochloromethane			50.0	48.9		ug/L		98	70 - 130	0	30
Dichlorodifluoromethane			50.0	57.0		ug/L		114	70 - 130	4	40
Ethylbenzene			50.0	47.9		ug/L		96	70 - 130	0	20
Isopropylbenzene			50.0	48.1		ug/L		96	70 - 130	1	30
m,p-Xylenes			50.0	47.6		ug/L		95	70 - 130	1	30
Methyl acetate			100	103		ug/L		103	67 - 120	6	30
Methyl tert-butyl ether			50.0	53.3		ug/L		107	70 - 130	1	30
Methylene Chloride			50.0	52.8		ug/L		106	70 - 130	4	30
o-Xylene			50.0	47.2		ug/L		94	70 - 130	0	30
Styrene			50.0	46.9		ug/L		94	70 - 130	0	30
Tetrachloroethene			50.0	53.7		ug/L		107	70 - 130	1	30
Toluene			50.0	54.6		ug/L		109	70 - 130	0	30
trans-1,2-Dichloroethene			50.0	52.5		ug/L		105	70 - 130	2	30
trans-1,3-Dichloropropene			50.0	50.2		ug/L		100	70 - 130	1	30
Trichloroethene			50.0	54.1		ug/L		108	70 - 130	1	30
Trichlorofluoromethane			50.0	58.8		ug/L		118	63 - 142	3	30
Vinyl chloride			50.0	57.7		ug/L		115	66 - 129	3	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-804880/8
Matrix: Water
Analysis Batch: 804880

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Xylenes, Total			100	94.8		ug/L		95	70 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*108*		*60 - 124*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*
Dibromofluoromethane (Surr)	*109*		*70 - 130*
Toluene-d8 (Surr)	*112*		*70 - 130*

Lab Sample ID: MB 680-805008/8
Matrix: Water
Analysis Batch: 805008

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/27/23 14:14	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/27/23 14:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/27/23 14:14	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/27/23 14:14	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/27/23 14:14	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/27/23 14:14	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/27/23 14:14	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/27/23 14:14	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/27/23 14:14	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/27/23 14:14	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/27/23 14:14	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/27/23 14:14	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/27/23 14:14	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/27/23 14:14	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/27/23 14:14	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/27/23 14:14	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/27/23 14:14	1
Acetone	3.7	U	10	3.7	ug/L			10/27/23 14:14	1
Benzene	0.27	U	1.0	0.27	ug/L			10/27/23 14:14	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/27/23 14:14	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/27/23 14:14	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/27/23 14:14	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/27/23 14:14	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/27/23 14:14	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/27/23 14:14	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/27/23 14:14	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/27/23 14:14	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/27/23 14:14	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/27/23 14:14	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/27/23 14:14	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/27/23 14:14	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/27/23 14:14	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/27/23 14:14	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/27/23 14:14	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/27/23 14:14	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-805008/8
Matrix: Water
Analysis Batch: 805008

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/27/23 14:14	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/27/23 14:14	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/27/23 14:14	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/27/23 14:14	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/27/23 14:14	1
Styrene	0.27	U	1.0	0.27	ug/L			10/27/23 14:14	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/27/23 14:14	1
Toluene	0.25	U	1.0	0.25	ug/L			10/27/23 14:14	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/27/23 14:14	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/27/23 14:14	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/27/23 14:14	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/27/23 14:14	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/27/23 14:14	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/27/23 14:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*		*10/27/23 14:14*	*1*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*		*10/27/23 14:14*	*1*
Dibromofluoromethane (Surr)	*95*		*70 - 130*		*10/27/23 14:14*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*10/27/23 14:14*	*1*

Lab Sample ID: LCS 680-805008/4
Matrix: Water
Analysis Batch: 805008

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	51.2		ug/L		102	70 - 130
1,1,2,2-Tetrachloroethane	50.0	49.0		ug/L		98	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	55.4		ug/L		111	63 - 141
1,1,2-Trichloroethane	50.0	55.4		ug/L		111	70 - 130
1,1-Dichloroethane	50.0	54.8		ug/L		110	70 - 130
1,1-Dichloroethene	50.0	51.5		ug/L		103	70 - 130
1,2,4-Trichlorobenzene	50.0	44.9		ug/L		90	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	41.0		ug/L		82	70 - 130
1,2-Dibromoethane (EDB)	50.0	54.9		ug/L		110	70 - 130
1,2-Dichlorobenzene	50.0	46.8		ug/L		94	70 - 130
1,2-Dichloroethane	50.0	55.0		ug/L		110	70 - 130
1,2-Dichloropropane	50.0	55.4		ug/L		111	70 - 130
1,3-Dichlorobenzene	50.0	46.4		ug/L		93	70 - 130
1,4-Dichlorobenzene	50.0	46.5		ug/L		93	70 - 130
2-Butanone (MEK)	250	229		ug/L		92	69 - 120
2-Hexanone	250	275		ug/L		110	70 - 130
4-Methyl-2-pentanone	250	281		ug/L		112	68 - 120
Acetone	250	267		ug/L		107	67 - 120
Benzene	50.0	54.9		ug/L		110	70 - 130
Bromodichloromethane	50.0	52.6		ug/L		105	70 - 130
Bromoform	50.0	42.3		ug/L		85	69 - 129
Bromomethane	50.0	52.2		ug/L		104	28 - 192

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-805008/4
Matrix: Water
Analysis Batch: 805008

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Carbon disulfide	50.0	47.8		ug/L		96	70 - 130
Carbon tetrachloride	50.0	49.0		ug/L		98	70 - 130
Chlorobenzene	50.0	49.0		ug/L		98	70 - 130
Chloroethane	50.0	53.5		ug/L		107	31 - 213
Chloroform	50.0	52.1		ug/L		104	70 - 130
Chloromethane	50.0	56.4		ug/L		113	59 - 127
cis-1,2-Dichloroethene	50.0	53.3		ug/L		107	70 - 130
cis-1,3-Dichloropropene	50.0	53.6		ug/L		107	70 - 130
Cyclohexane	50.0	52.3		ug/L		105	23 - 175
Dibromochloromethane	50.0	51.6		ug/L		103	70 - 130
Dichlorodifluoromethane	50.0	55.0		ug/L		110	70 - 130
Ethylbenzene	50.0	48.6		ug/L		97	70 - 130
Isopropylbenzene	50.0	48.2		ug/L		96	70 - 130
m,p-Xylenes	50.0	47.8		ug/L		96	70 - 130
Methyl acetate	100	101		ug/L		101	67 - 120
Methyl tert-butyl ether	50.0	54.7		ug/L		109	70 - 130
Methylene Chloride	50.0	53.5		ug/L		107	70 - 130
o-Xylene	50.0	48.2		ug/L		96	70 - 130
Styrene	50.0	48.3		ug/L		97	70 - 130
Tetrachloroethene	50.0	54.6		ug/L		109	70 - 130
Toluene	50.0	54.6		ug/L		109	70 - 130
trans-1,2-Dichloroethene	50.0	51.8		ug/L		104	70 - 130
trans-1,3-Dichloropropene	50.0	52.5		ug/L		105	70 - 130
Trichloroethene	50.0	54.8		ug/L		110	70 - 130
Trichlorofluoromethane	50.0	57.7		ug/L		115	63 - 142
Vinyl chloride	50.0	54.7		ug/L		109	66 - 129
Xylenes, Total	100	96.0		ug/L		96	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*108*		*60 - 124*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*
Dibromofluoromethane (Surr)	*110*		*70 - 130*
Toluene-d8 (Surr)	*113*		*70 - 130*

Lab Sample ID: LCSD 680-805008/5
Matrix: Water
Analysis Batch: 805008

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	50.0	49.6		ug/L		99	70 - 130	3	30
1,1,2,2-Tetrachloroethane	50.0	49.6		ug/L		99	70 - 130	1	30
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	52.6		ug/L		105	63 - 141	5	30
1,1,2-Trichloroethane	50.0	54.7		ug/L		109	70 - 130	1	30
1,1-Dichloroethane	50.0	53.8		ug/L		108	70 - 130	2	30
1,1-Dichloroethene	50.0	50.5		ug/L		101	70 - 130	2	20
1,2,4-Trichlorobenzene	50.0	45.1		ug/L		90	70 - 130	0	30
1,2-Dibromo-3-Chloropropane	50.0	42.2		ug/L		84	70 - 130	3	30
1,2-Dibromoethane (EDB)	50.0	54.8		ug/L		110	70 - 130	0	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-805008/5
Matrix: Water
Analysis Batch: 805008

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dichlorobenzene			50.0	46.3		ug/L		93	70 - 130	1	30
1,2-Dichloroethane			50.0	53.9		ug/L		108	70 - 130	2	50
1,2-Dichloropropane			50.0	54.2		ug/L		108	70 - 130	2	20
1,3-Dichlorobenzene			50.0	46.3		ug/L		93	70 - 130	0	30
1,4-Dichlorobenzene			50.0	46.3		ug/L		93	70 - 130	0	30
2-Butanone (MEK)			250	239		ug/L		96	69 - 120	4	30
2-Hexanone			250	281		ug/L		112	70 - 130	2	20
4-Methyl-2-pentanone			250	283		ug/L		113	68 - 120	1	30
Acetone			250	273		ug/L		109	67 - 120	3	30
Benzene			50.0	54.0		ug/L		108	70 - 130	2	30
Bromodichloromethane			50.0	51.4		ug/L		103	70 - 130	2	30
Bromoform			50.0	42.3		ug/L		85	69 - 129	0	30
Bromomethane			50.0	43.6		ug/L		87	28 - 192	18	30
Carbon disulfide			50.0	47.0		ug/L		94	70 - 130	2	30
Carbon tetrachloride			50.0	47.6		ug/L		95	70 - 130	3	30
Chlorobenzene			50.0	48.8		ug/L		98	70 - 130	0	30
Chloroethane			50.0	84.3	J3	ug/L		169	31 - 213	45	30
Chloroform			50.0	51.7		ug/L		103	70 - 130	1	30
Chloromethane			50.0	54.9		ug/L		110	59 - 127	3	30
cis-1,2-Dichloroethene			50.0	53.0		ug/L		106	70 - 130	1	30
cis-1,3-Dichloropropene			50.0	52.8		ug/L		106	70 - 130	2	20
Cyclohexane			50.0	50.2		ug/L		100	23 - 175	4	30
Dibromochloromethane			50.0	50.9		ug/L		102	70 - 130	1	30
Dichlorodifluoromethane			50.0	54.6		ug/L		109	70 - 130	1	40
Ethylbenzene			50.0	48.1		ug/L		96	70 - 130	1	20
Isopropylbenzene			50.0	48.1		ug/L		96	70 - 130	0	30
m,p-Xylenes			50.0	47.7		ug/L		95	70 - 130	0	30
Methyl acetate			100	105		ug/L		105	67 - 120	3	30
Methyl tert-butyl ether			50.0	55.6		ug/L		111	70 - 130	2	30
Methylene Chloride			50.0	54.5		ug/L		109	70 - 130	2	30
o-Xylene			50.0	47.8		ug/L		96	70 - 130	1	30
Styrene			50.0	48.0		ug/L		96	70 - 130	1	30
Tetrachloroethene			50.0	52.7		ug/L		105	70 - 130	4	30
Toluene			50.0	53.6		ug/L		107	70 - 130	2	30
trans-1,2-Dichloroethene			50.0	50.8		ug/L		102	70 - 130	2	30
trans-1,3-Dichloropropene			50.0	52.1		ug/L		104	70 - 130	1	30
Trichloroethene			50.0	52.1		ug/L		104	70 - 130	5	30
Trichlorofluoromethane			50.0	56.3		ug/L		113	63 - 142	2	30
Vinyl chloride			50.0	55.9		ug/L		112	66 - 129	2	30
Xylenes, Total			100	95.5		ug/L		96	70 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*108*		*60 - 124*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*
Dibromofluoromethane (Surr)	*111*		*70 - 130*
Toluene-d8 (Surr)	*111*		*70 - 130*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 680-242028-B-24 MS
Matrix: Water
Analysis Batch: 805008

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.21	U J3	50.0	35.6		ug/L		71	70 - 130
1,1,2,2-Tetrachloroethane	0.40	U J3	50.0	32.0	J3	ug/L		64	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	50.0	38.3		ug/L		77	63 - 141
1,1,2-Trichloroethane	0.32	U J3	50.0	36.4		ug/L		73	70 - 130
1,1-Dichloroethane	0.33	U J3	50.0	38.3		ug/L		77	70 - 130
1,1-Dichloroethene	0.33	U J3	50.0	36.1		ug/L		72	70 - 130
1,2,4-Trichlorobenzene	0.53	U J3	50.0	28.7	J3	ug/L		57	70 - 130
1,2-Dibromo-3-Chloropropane	1.8	U J3	50.0	25.9	J3	ug/L		52	70 - 130
1,2-Dibromoethane (EDB)	0.33	U J3	50.0	36.0		ug/L		72	70 - 130
1,2-Dichlorobenzene	0.31	U J3	50.0	30.8	J3	ug/L		62	70 - 130
1,2-Dichloroethane	0.25	U J3	50.0	36.3		ug/L		73	70 - 130
1,2-Dichloropropane	0.22	U J3	50.0	37.8		ug/L		76	70 - 130
1,3-Dichlorobenzene	0.31	U J3	50.0	31.4	J3	ug/L		63	70 - 130
1,4-Dichlorobenzene	0.31	U J3	50.0	31.1	J3	ug/L		62	70 - 130
2-Butanone (MEK)	6.4	U J3	250	135	J3	ug/L		54	69 - 120
2-Hexanone	3.2	U J3	250	181		ug/L		72	70 - 130
4-Methyl-2-pentanone	2.7	U	250	186		ug/L		74	68 - 120
Acetone	3.7	U J3	250	157	J3	ug/L		63	67 - 120
Benzene	0.27	U J3	50.0	38.0		ug/L		76	70 - 130
Bromodichloromethane	0.25	U J3	50.0	34.1	J3	ug/L		68	70 - 130
Bromoform	0.59	U J3	50.0	26.0	J3	ug/L		52	69 - 129
Bromomethane	3.7	U J3	50.0	31.8		ug/L		64	28 - 192
Carbon disulfide	0.43	U J3	50.0	31.4	J3	ug/L		63	70 - 130
Carbon tetrachloride	0.30	U J3	50.0	34.0	J3	ug/L		68	70 - 130
Chlorobenzene	0.15	U J3	50.0	33.5	J3	ug/L		67	70 - 130
Chloroethane	4.6	U J3	50.0	91.3		ug/L		183	31 - 213
Chloroform	0.27	U J3	50.0	35.5		ug/L		71	70 - 130
Chloromethane	0.54	U J3	50.0	46.4		ug/L		93	59 - 127
cis-1,2-Dichloroethene	0.25	U J3	50.0	36.4		ug/L		73	70 - 130
cis-1,3-Dichloropropene	0.26	U J3	50.0	34.1	J3	ug/L		68	70 - 130
Cyclohexane	0.28	U	50.0	37.2		ug/L		74	23 - 175
Dibromochloromethane	0.39	U J3	50.0	32.6	J3	ug/L		65	70 - 130
Dichlorodifluoromethane	0.36	U J3	50.0	50.6		ug/L		101	70 - 130
Ethylbenzene	0.20	U J3	50.0	33.6	J3	ug/L		67	70 - 130
Isopropylbenzene	0.26	U J3	50.0	33.3	J3	ug/L		67	70 - 130
m,p-Xylenes	0.49	U J3	50.0	33.0	J3	ug/L		66	70 - 130
Methyl acetate	3.2	U J3	100	64.8	J3	ug/L		65	67 - 120
Methyl tert-butyl ether	0.81	U	50.0	35.6		ug/L		71	70 - 130
Methylene Chloride	3.2	U J3	50.0	36.4		ug/L		73	70 - 130
o-Xylene	0.26	U J3	50.0	32.5	J3	ug/L		65	70 - 130
Styrene	0.27	U J3	50.0	32.3	J3	ug/L		65	70 - 130
Tetrachloroethene	0.35	U J3	50.0	38.1		ug/L		76	70 - 130
Toluene	0.25	U J3	50.0	38.0		ug/L		76	70 - 130
trans-1,2-Dichloroethene	0.34	U J3	50.0	36.8		ug/L		74	70 - 130
trans-1,3-Dichloropropene	0.23	U J3	50.0	33.3	J3	ug/L		67	70 - 130
Trichloroethene	0.20	U J3	50.0	37.4		ug/L		75	70 - 130
Trichlorofluoromethane	0.33	U J3	50.0	49.0		ug/L		98	63 - 142
Vinyl chloride	0.40	U J3	50.0	50.0		ug/L		100	66 - 129

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 680-242028-B-24 MS
Matrix: Water
Analysis Batch: 805008

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Xylenes, Total	0.23	U J3	100	65.5	J3	ug/L		66	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*71*		*60 - 124*
4-Bromofluorobenzene (Surr)	*60*	*J1*	*70 - 130*
Dibromofluoromethane (Surr)	*74*		*70 - 130*
Toluene-d8 (Surr)	*78*		*70 - 130*

Lab Sample ID: 680-242028-C-24 MSD
Matrix: Water
Analysis Batch: 805008

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	0.21	U J3	50.0	45.3		ug/L		91	70 - 130	24	30
1,1,2,2-Tetrachloroethane	0.40	U J3	50.0	40.5		ug/L		81	70 - 130	23	30
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	50.0	49.9		ug/L		100	63 - 141	26	30
1,1,2-Trichloroethane	0.32	U J3	50.0	45.7		ug/L		91	70 - 130	23	30
1,1-Dichloroethane	0.33	U J3	50.0	48.6		ug/L		97	70 - 130	24	30
1,1-Dichloroethene	0.33	U J3	50.0	45.7	J3	ug/L		91	70 - 130	23	20
1,2,4-Trichlorobenzene	0.53	U J3	50.0	38.4		ug/L		77	70 - 130	29	30
1,2-Dibromo-3-Chloropropane	1.8	U J3	50.0	33.8	J3	ug/L		68	70 - 130	26	30
1,2-Dibromoethane (EDB)	0.33	U J3	50.0	45.2		ug/L		90	70 - 130	23	30
1,2-Dichlorobenzene	0.31	U J3	50.0	40.6		ug/L		81	70 - 130	27	30
1,2-Dichloroethane	0.25	U J3	50.0	45.7		ug/L		91	70 - 130	23	50
1,2-Dichloropropane	0.22	U J3	50.0	47.6	J3	ug/L		95	70 - 130	23	20
1,3-Dichlorobenzene	0.31	U J3	50.0	41.0		ug/L		82	70 - 130	27	30
1,4-Dichlorobenzene	0.31	U J3	50.0	40.5		ug/L		81	70 - 130	26	30
2-Butanone (MEK)	6.4	U J3	250	177		ug/L		71	69 - 120	27	30
2-Hexanone	3.2	U J3	250	223	J3	ug/L		89	70 - 130	21	20
4-Methyl-2-pentanone	2.7	U	250	230		ug/L		92	68 - 120	21	30
Acetone	3.7	U J3	250	197		ug/L		79	67 - 120	23	30
Benzene	0.27	U J3	50.0	49.0		ug/L		98	70 - 130	25	30
Bromodichloromethane	0.25	U J3	50.0	43.8		ug/L		88	70 - 130	25	30
Bromoform	0.59	U J3	50.0	34.1	J3	ug/L		68	69 - 129	27	30
Bromomethane	3.7	U J3	50.0	51.2	J3	ug/L		102	28 - 192	47	30
Carbon disulfide	0.43	U J3	50.0	40.8		ug/L		82	70 - 130	26	30
Carbon tetrachloride	0.30	U J3	50.0	44.2		ug/L		88	70 - 130	26	30
Chlorobenzene	0.15	U J3	50.0	42.6		ug/L		85	70 - 130	24	30
Chloroethane	4.6	U J3	50.0	115	J3	ug/L		230	31 - 213	23	30
Chloroform	0.27	U J3	50.0	45.1		ug/L		90	70 - 130	24	30
Chloromethane	0.54	U J3	50.0	57.5		ug/L		115	59 - 127	21	30
cis-1,2-Dichloroethene	0.25	U J3	50.0	46.5		ug/L		93	70 - 130	24	30
cis-1,3-Dichloropropene	0.26	U J3	50.0	44.4	J3	ug/L		89	70 - 130	26	20
Cyclohexane	0.28	U	50.0	47.3		ug/L		95	23 - 175	24	30
Dibromochloromethane	0.39	U J3	50.0	41.6		ug/L		83	70 - 130	24	30
Dichlorodifluoromethane	0.36	U J3	50.0	63.0		ug/L		126	70 - 130	22	40
Ethylbenzene	0.20	U J3	50.0	42.9	J3	ug/L		86	70 - 130	24	20
Isopropylbenzene	0.26	U J3	50.0	42.6		ug/L		85	70 - 130	25	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 680-242028-C-24 MSD
Matrix: Water
Analysis Batch: 805008

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m,p-Xylenes	0.49	U J3	50.0	42.4		ug/L		85	70 - 130	25	30
Methyl acetate	3.2	U J3	100	80.6		ug/L		81	67 - 120	22	30
Methyl tert-butyl ether	0.81	U	50.0	45.0		ug/L		90	70 - 130	23	30
Methylene Chloride	3.2	U J3	50.0	45.8		ug/L		92	70 - 130	23	30
o-Xylene	0.26	U J3	50.0	41.5		ug/L		83	70 - 130	24	30
Styrene	0.27	U J3	50.0	41.5		ug/L		83	70 - 130	25	30
Tetrachloroethene	0.35	U J3	50.0	48.0		ug/L		96	70 - 130	23	30
Toluene	0.25	U J3	50.0	47.8		ug/L		96	70 - 130	23	30
trans-1,2-Dichloroethene	0.34	U J3	50.0	46.3		ug/L		93	70 - 130	23	30
trans-1,3-Dichloropropene	0.23	U J3	50.0	42.9		ug/L		86	70 - 130	25	30
Trichloroethene	0.20	U J3	50.0	47.7		ug/L		95	70 - 130	24	30
Trichlorofluoromethane	0.33	U J3	50.0	62.8		ug/L		126	63 - 142	25	30
Vinyl chloride	0.40	U J3	50.0	61.3		ug/L		123	66 - 129	20	30
Xylenes, Total	0.23	U J3	100	83.9		ug/L		84	70 - 130	25	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*91*		*60 - 124*
4-Bromofluorobenzene (Surr)	*78*		*70 - 130*
Dibromofluoromethane (Surr)	*94*		*70 - 130*
Toluene-d8 (Surr)	*98*		*70 - 130*

Lab Sample ID: MB 680-805311/11
Matrix: Water
Analysis Batch: 805311

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/30/23 15:38	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/30/23 15:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/30/23 15:38	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/30/23 15:38	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/30/23 15:38	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/30/23 15:38	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/30/23 15:38	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/30/23 15:38	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/30/23 15:38	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/30/23 15:38	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/30/23 15:38	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/30/23 15:38	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/30/23 15:38	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/30/23 15:38	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/30/23 15:38	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/30/23 15:38	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/30/23 15:38	1
Acetone	3.7	U	10	3.7	ug/L			10/30/23 15:38	1
Benzene	0.27	U	1.0	0.27	ug/L			10/30/23 15:38	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/30/23 15:38	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/30/23 15:38	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/30/23 15:38	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-805311/11
Matrix: Water
Analysis Batch: 805311

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/30/23 15:38	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/30/23 15:38	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/30/23 15:38	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/30/23 15:38	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/30/23 15:38	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/30/23 15:38	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/30/23 15:38	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/30/23 15:38	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/30/23 15:38	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/30/23 15:38	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/30/23 15:38	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/30/23 15:38	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/30/23 15:38	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/30/23 15:38	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/30/23 15:38	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/30/23 15:38	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/30/23 15:38	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/30/23 15:38	1
Styrene	0.27	U	1.0	0.27	ug/L			10/30/23 15:38	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/30/23 15:38	1
Toluene	0.25	U	1.0	0.25	ug/L			10/30/23 15:38	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/30/23 15:38	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/30/23 15:38	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/30/23 15:38	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/30/23 15:38	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/30/23 15:38	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/30/23 15:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*83*		*60 - 124*		*10/30/23 15:38*	*1*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*		*10/30/23 15:38*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*10/30/23 15:38*	*1*
Toluene-d8 (Surr)	*109*		*70 - 130*		*10/30/23 15:38*	*1*

Lab Sample ID: LCS 680-805311/6
Matrix: Water
Analysis Batch: 805311

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	46.5		ug/L		93	70 - 130
1,1,2,2-Tetrachloroethane	50.0	56.1		ug/L		112	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	53.8		ug/L		108	63 - 141
1,1,2-Trichloroethane	50.0	47.7		ug/L		95	70 - 130
1,1-Dichloroethane	50.0	53.9		ug/L		108	70 - 130
1,1-Dichloroethene	50.0	45.3		ug/L		91	70 - 130
1,2,4-Trichlorobenzene	50.0	54.4		ug/L		109	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	48.2		ug/L		96	70 - 130
1,2-Dibromoethane (EDB)	50.0	47.0		ug/L		94	70 - 130

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-805311/6
Matrix: Water
Analysis Batch: 805311

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichlorobenzene	50.0	54.2		ug/L		108	70 - 130
1,2-Dichloroethane	50.0	47.8		ug/L		96	70 - 130
1,2-Dichloropropane	50.0	52.1		ug/L		104	70 - 130
1,3-Dichlorobenzene	50.0	54.3		ug/L		109	70 - 130
1,4-Dichlorobenzene	50.0	53.8		ug/L		108	70 - 130
2-Butanone (MEK)	250	253		ug/L		101	69 - 120
2-Hexanone	250	279		ug/L		112	70 - 130
4-Methyl-2-pentanone	250	258		ug/L		103	68 - 120
Acetone	250	246		ug/L		98	67 - 120
Benzene	50.0	54.1		ug/L		108	70 - 130
Bromodichloromethane	50.0	44.6		ug/L		89	70 - 130
Bromoform	50.0	50.0		ug/L		100	69 - 129
Bromomethane	50.0	52.7		ug/L		105	28 - 192
Carbon disulfide	50.0	51.5		ug/L		103	70 - 130
Carbon tetrachloride	50.0	49.3		ug/L		99	70 - 130
Chlorobenzene	50.0	51.0		ug/L		102	70 - 130
Chloroethane	50.0	43.6		ug/L		87	31 - 213
Chloroform	50.0	49.3		ug/L		99	70 - 130
Chloromethane	50.0	50.4		ug/L		101	59 - 127
cis-1,2-Dichloroethene	50.0	50.9		ug/L		102	70 - 130
cis-1,3-Dichloropropene	50.0	49.3		ug/L		99	70 - 130
Cyclohexane	50.0	55.3		ug/L		111	23 - 175
Dibromochloromethane	50.0	46.8		ug/L		94	70 - 130
Dichlorodifluoromethane	50.0	56.6		ug/L		113	70 - 130
Ethylbenzene	50.0	53.2		ug/L		106	70 - 130
Isopropylbenzene	50.0	52.5		ug/L		105	70 - 130
m,p-Xylenes	50.0	52.6		ug/L		105	70 - 130
Methyl acetate	100	88.6		ug/L		89	67 - 120
Methyl tert-butyl ether	50.0	46.8		ug/L		94	70 - 130
Methylene Chloride	50.0	46.4		ug/L		93	70 - 130
o-Xylene	50.0	55.0		ug/L		110	70 - 130
Styrene	50.0	51.4		ug/L		103	70 - 130
Tetrachloroethene	50.0	48.1		ug/L		96	70 - 130
Toluene	50.0	51.8		ug/L		104	70 - 130
trans-1,2-Dichloroethene	50.0	53.6		ug/L		107	70 - 130
trans-1,3-Dichloropropene	50.0	52.7		ug/L		105	70 - 130
Trichloroethene	50.0	45.8		ug/L		92	70 - 130
Trichlorofluoromethane	50.0	42.9		ug/L		86	63 - 142
Vinyl chloride	50.0	45.2		ug/L		90	66 - 129
Xylenes, Total	100	108		ug/L		108	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
Dibromofluoromethane (Surr)	*98*		*70 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-805311/7
Matrix: Water
Analysis Batch: 805311

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane			50.0	47.3		ug/L		95	70 - 130	2	30
1,1,2,2-Tetrachloroethane			50.0	56.6		ug/L		113	70 - 130	1	30
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	55.2		ug/L		110	63 - 141	3	30
1,1,2-Trichloroethane			50.0	46.6		ug/L		93	70 - 130	2	30
1,1-Dichloroethane			50.0	55.1		ug/L		110	70 - 130	2	30
1,1-Dichloroethene			50.0	55.2		ug/L		110	70 - 130	20	20
1,2,4-Trichlorobenzene			50.0	54.7		ug/L		109	70 - 130	1	30
1,2-Dibromo-3-Chloropropane			50.0	49.8		ug/L		100	70 - 130	3	30
1,2-Dibromoethane (EDB)			50.0	48.8		ug/L		98	70 - 130	4	30
1,2-Dichlorobenzene			50.0	54.9		ug/L		110	70 - 130	1	30
1,2-Dichloroethane			50.0	48.8		ug/L		98	70 - 130	2	50
1,2-Dichloropropane			50.0	53.8		ug/L		108	70 - 130	3	20
1,3-Dichlorobenzene			50.0	53.7		ug/L		107	70 - 130	1	30
1,4-Dichlorobenzene			50.0	52.4		ug/L		105	70 - 130	3	30
2-Butanone (MEK)			250	269		ug/L		107	69 - 120	6	30
2-Hexanone			250	282		ug/L		113	70 - 130	1	20
4-Methyl-2-pentanone			250	256		ug/L		102	68 - 120	1	30
Acetone			250	251		ug/L		101	67 - 120	2	30
Benzene			50.0	53.3		ug/L		107	70 - 130	2	30
Bromodichloromethane			50.0	44.3		ug/L		89	70 - 130	1	30
Bromoform			50.0	50.3		ug/L		101	69 - 129	1	30
Bromomethane			50.0	51.0		ug/L		102	28 - 192	3	30
Carbon disulfide			50.0	52.0		ug/L		104	70 - 130	1	30
Carbon tetrachloride			50.0	47.6		ug/L		95	70 - 130	4	30
Chlorobenzene			50.0	50.6		ug/L		101	70 - 130	1	30
Chloroethane			50.0	44.4		ug/L		89	31 - 213	2	30
Chloroform			50.0	49.2		ug/L		98	70 - 130	0	30
Chloromethane			50.0	50.8		ug/L		102	59 - 127	1	30
cis-1,2-Dichloroethene			50.0	49.0		ug/L		98	70 - 130	4	30
cis-1,3-Dichloropropene			50.0	48.4		ug/L		97	70 - 130	2	20
Cyclohexane			50.0	56.5		ug/L		113	23 - 175	2	30
Dibromochloromethane			50.0	47.5		ug/L		95	70 - 130	1	30
Dichlorodifluoromethane			50.0	58.4		ug/L		117	70 - 130	3	40
Ethylbenzene			50.0	51.8		ug/L		104	70 - 130	3	20
Isopropylbenzene			50.0	50.6		ug/L		101	70 - 130	4	30
m,p-Xylenes			50.0	52.9		ug/L		106	70 - 130	1	30
Methyl acetate			100	99.8		ug/L		100	67 - 120	12	30
Methyl tert-butyl ether			50.0	48.3		ug/L		97	70 - 130	3	30
Methylene Chloride			50.0	46.8		ug/L		94	70 - 130	1	30
o-Xylene			50.0	53.6		ug/L		107	70 - 130	3	30
Styrene			50.0	50.9		ug/L		102	70 - 130	1	30
Tetrachloroethene			50.0	46.0		ug/L		92	70 - 130	4	30
Toluene			50.0	48.1		ug/L		96	70 - 130	8	30
trans-1,2-Dichloroethene			50.0	55.9		ug/L		112	70 - 130	4	30
trans-1,3-Dichloropropene			50.0	53.5		ug/L		107	70 - 130	1	30
Trichloroethene			50.0	46.9		ug/L		94	70 - 130	2	30
Trichlorofluoromethane			50.0	42.3		ug/L		85	63 - 142	1	30
Vinyl chloride			50.0	47.4		ug/L		95	66 - 129	5	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-805311/7
Matrix: Water
Analysis Batch: 805311

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Xylenes, Total			100	107		ug/L		107	70 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
Dibromofluoromethane (Surr)	*100*		*70 - 130*
Toluene-d8 (Surr)	*97*		*70 - 130*

GC/MS VOA

Analysis Batch: 804679

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-29049-7	LC34-DPT-1005-038.0-20231019	Total/NA	Water	8260D	
670-29049-8	LC34-DPT-1005-032.0-20231019	Total/NA	Water	8260D	
670-29049-9	LC34-DPT-1005- 025.0-20231019	Total/NA	Water	8260D	
670-29049-10	LC34-DPT-1005-018.0-20231019	Total/NA	Water	8260D	
670-29049-11	LC34-DPT-1005- 013.0-20231019	Total/NA	Water	8260D	
670-29049-12	LC34-DPT-1005-008.0-20231019	Total/NA	Water	8260D	
MB 680-804679/8	Method Blank	Total/NA	Water	8260D	
LCS 680-804679/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-804679/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 804696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-29049-1	LC34-DPT-1004-038.0-20231019	Total/NA	Water	8260D	
670-29049-2	LC34-DPT-1004-032.0-20231019	Total/NA	Water	8260D	
670-29049-3	LC34-DPT-1004-025.0-20231019	Total/NA	Water	8260D	
670-29049-4	LC34-DPT-1004-018.0-20231019	Total/NA	Water	8260D	
670-29049-4 - DL	LC34-DPT-1004-018.0-20231019	Total/NA	Water	8260D	
670-29049-5	LC34-DPT-1004-013.0-20231019	Total/NA	Water	8260D	
670-29049-6	LC34-DPT-1004-008.0-20231019	Total/NA	Water	8260D	
MB 680-804696/7	Method Blank	Total/NA	Water	8260D	
LCS 680-804696/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-804696/4	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 804880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-29049-13	LC34-DPT-1006-038.0-20231020	Total/NA	Water	8260D	
670-29049-14	LC34-DPT-1006- 032.0-20231020	Total/NA	Water	8260D	
670-29049-15	LC34-DPT-1006- 025.0-20231020	Total/NA	Water	8260D	
670-29049-16	LC34-DPT-1006-018.0-20231020	Total/NA	Water	8260D	
670-29049-17	LC34-DPT-1006-013.0-20231020	Total/NA	Water	8260D	
670-29049-18	LC34-DPT-1006-008.0-20231020	Total/NA	Water	8260D	
670-29049-19	LC34-DPT-1007-038.0-20231020	Total/NA	Water	8260D	
670-29049-20	LC34-DPT-1007-032.0-20231020	Total/NA	Water	8260D	
670-29049-22	LC34-DPT-1007- 018.0-20231020	Total/NA	Water	8260D	
670-29049-23	LC34-DPT-1007-013.0-20231020	Total/NA	Water	8260D	
670-29049-24	LC34-DPT-1007-008.0 -20231020	Total/NA	Water	8260D	
670-29049-25	LC34-DPT-1008-038.0-20231020	Total/NA	Water	8260D	
670-29049-26	LC34-DPT-1008-032.0-20231020	Total/NA	Water	8260D	
670-29049-27	LC34-DPT-1008-025.0-20231020	Total/NA	Water	8260D	
670-29049-28	LC34-DPT-1008-018.0-20231020	Total/NA	Water	8260D	
670-29049-29	LC34-DPT-1008-013.0-20231020	Total/NA	Water	8260D	
670-29049-30	LC34-DPT-1008-008.0-20231020	Total/NA	Water	8260D	
670-29049-31	LC34-DPT-1009-008.0-20231020	Total/NA	Water	8260D	
670-29049-32	LC34-DPT-1009-013.0-20231020	Total/NA	Water	8260D	
MB 680-804880/5	Method Blank	Total/NA	Water	8260D	
LCS 680-804880/7	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-804880/8	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 805008

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-29049-33	LC34-DPT-1009-018.0-20231020	Total/NA	Water	8260D	

GC/MS VOA (Continued)

Analysis Batch: 805008 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-29049-34	LC34-DPT-1009-025.0-20231020	Total/NA	Water	8260D	
670-29049-34 - DL	LC34-DPT-1009-025.0-20231020	Total/NA	Water	8260D	
670-29049-35	LC34-DPT-1009-034.0-20231020	Total/NA	Water	8260D	
670-29049-36	LC34-DPT-1009-038.0-20231020	Total/NA	Water	8260D	
MB 680-805008/8	Method Blank	Total/NA	Water	8260D	
LCS 680-805008/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-805008/5	Lab Control Sample Dup	Total/NA	Water	8260D	
680-242028-B-24 MS	Matrix Spike	Total/NA	Water	8260D	
680-242028-C-24 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Analysis Batch: 805311

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-29049-21	LC34-DPT-1007-025.0-20231020	Total/NA	Water	8260D	
MB 680-805311/11	Method Blank	Total/NA	Water	8260D	
LCS 680-805311/6	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-805311/7	Lab Control Sample Dup	Total/NA	Water	8260D	

Lab Chronicle

Client: Tetra Tech, Inc.
Job ID: 670-29049-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT-1004-038.0-20231019
Lab Sample ID: 670-29049-1
Date Collected: 10/19/23 14:05
Matrix: Water
Date Received: 10/21/23 09:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	804696	MLL	EET SAV	10/26/23 11:29

Client Sample ID: LC34-DPT-1004-032.0-20231019
Lab Sample ID: 670-29049-2
Date Collected: 10/19/23 14:20
Matrix: Water
Date Received: 10/21/23 09:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	804696	MLL	EET SAV	10/26/23 11:48

Client Sample ID: LC34-DPT-1004-025.0-20231019
Lab Sample ID: 670-29049-3
Date Collected: 10/19/23 14:35
Matrix: Water
Date Received: 10/21/23 09:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		5	804696	MLL	EET SAV	10/26/23 12:47

Client Sample ID: LC34-DPT-1004-018.0-20231019
Lab Sample ID: 670-29049-4
Date Collected: 10/19/23 14:50
Matrix: Water
Date Received: 10/21/23 09:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		5	804696	MLL	EET SAV	10/26/23 13:08
Total/NA	Analysis	8260D	DL	10	804696	MLL	EET SAV	10/26/23 14:07

Client Sample ID: LC34-DPT-1004-013.0-20231019
Lab Sample ID: 670-29049-5
Date Collected: 10/19/23 15:05
Matrix: Water
Date Received: 10/21/23 09:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	804696	MLL	EET SAV	10/26/23 12:06

Client Sample ID: LC34-DPT-1004-008.0-20231019
Lab Sample ID: 670-29049-6
Date Collected: 10/19/23 15:20
Matrix: Water
Date Received: 10/21/23 09:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	804696	MLL	EET SAV	10/26/23 12:25

Client Sample ID: LC34-DPT-1005-038.0-20231019
Lab Sample ID: 670-29049-7
Date Collected: 10/19/23 16:00
Matrix: Water
Date Received: 10/21/23 09:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	804679	MLL	EET SAV	10/26/23 10:52

Lab Chronicle

Client: Tetra Tech, Inc.
Job ID: 670-29049-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT-1005-032.0-20231019
Lab Sample ID: 670-29049-8
Date Collected: 10/19/23 16:15
Matrix: Water
Date Received: 10/21/23 09:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	804679	MLL	EET SAV	10/26/23 11:11

Client Sample ID: LC34-DPT-1005- 025.0-20231019
Lab Sample ID: 670-29049-9
Date Collected: 10/19/23 16:30
Matrix: Water
Date Received: 10/21/23 09:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		10	804679	MLL	EET SAV	10/26/23 12:26

Client Sample ID: LC34-DPT-1005-018.0-20231019
Lab Sample ID: 670-29049-10
Date Collected: 10/19/23 16:45
Matrix: Water
Date Received: 10/21/23 09:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	804679	MLL	EET SAV	10/26/23 11:30

Client Sample ID: LC34-DPT-1005- 013.0-20231019
Lab Sample ID: 670-29049-11
Date Collected: 10/19/23 17:00
Matrix: Water
Date Received: 10/21/23 09:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	804679	MLL	EET SAV	10/26/23 11:49

Client Sample ID: LC34-DPT-1005-008.0-20231019
Lab Sample ID: 670-29049-12
Date Collected: 10/19/23 17:15
Matrix: Water
Date Received: 10/21/23 09:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	804679	MLL	EET SAV	10/26/23 12:07

Client Sample ID: LC34-DPT-1006-038.0-20231020
Lab Sample ID: 670-29049-13
Date Collected: 10/20/23 08:05
Matrix: Water
Date Received: 10/21/23 09:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	804880	MLL	EET SAV	10/26/23 21:58

Client Sample ID: LC34-DPT-1006- 032.0-20231020
Lab Sample ID: 670-29049-14
Date Collected: 10/20/23 08:20
Matrix: Water
Date Received: 10/21/23 09:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	804880	MLL	EET SAV	10/26/23 22:19

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-29049-1

Client Sample ID: LC34-DPT-1006- 025.0-20231020
Lab Sample ID: 670-29049-15
Date Collected: 10/20/23 08:35
Matrix: Water
Date Received: 10/21/23 09:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		10	804880	MLL	EET SAV	10/27/23 04:04

Client Sample ID: LC34-DPT-1006-018.0-20231020
Lab Sample ID: 670-29049-16
Date Collected: 10/20/23 08:50
Matrix: Water
Date Received: 10/21/23 09:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		2	804880	MLL	EET SAV	10/27/23 03:00

Client Sample ID: LC34-DPT-1006-013.0-20231020
Lab Sample ID: 670-29049-17
Date Collected: 10/20/23 09:05
Matrix: Water
Date Received: 10/21/23 09:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	804880	MLL	EET SAV	10/26/23 22:41

Client Sample ID: LC34-DPT-1006-008.0-20231020
Lab Sample ID: 670-29049-18
Date Collected: 10/20/23 09:20
Matrix: Water
Date Received: 10/21/23 09:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	804880	MLL	EET SAV	10/26/23 23:03

Client Sample ID: LC34-DPT-1007-038.0-20231020
Lab Sample ID: 670-29049-19
Date Collected: 10/20/23 10:00
Matrix: Water
Date Received: 10/21/23 09:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	804880	MLL	EET SAV	10/26/23 23:24

Client Sample ID: LC34-DPT-1007-032.0-20231020
Lab Sample ID: 670-29049-20
Date Collected: 10/20/23 10:15
Matrix: Water
Date Received: 10/21/23 09:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	804880	MLL	EET SAV	10/26/23 23:46

Client Sample ID: LC34-DPT-1007-025.0-20231020
Lab Sample ID: 670-29049-21
Date Collected: 10/20/23 10:30
Matrix: Water
Date Received: 10/21/23 09:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	805311	UI	EET SAV	10/30/23 19:06

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-29049-1

Client Sample ID: LC34-DPT-1007- 018.0-20231020
Lab Sample ID: 670-29049-22
Date Collected: 10/20/23 10:45
Matrix: Water
Date Received: 10/21/23 09:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		2	804880	MLL	EET SAV	10/27/23 03:21

Client Sample ID: LC34-DPT-1007-013.0-20231020
Lab Sample ID: 670-29049-23
Date Collected: 10/20/23 11:00
Matrix: Water
Date Received: 10/21/23 09:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	804880	MLL	EET SAV	10/27/23 00:07

Client Sample ID: LC34-DPT-1007-008.0 -20231020
Lab Sample ID: 670-29049-24
Date Collected: 10/20/23 11:15
Matrix: Water
Date Received: 10/21/23 09:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	804880	MLL	EET SAV	10/27/23 00:50

Client Sample ID: LC34-DPT-1008-038.0-20231020
Lab Sample ID: 670-29049-25
Date Collected: 10/20/23 11:55
Matrix: Water
Date Received: 10/21/23 09:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	804880	MLL	EET SAV	10/27/23 00:29

Client Sample ID: LC34-DPT-1008-032.0-20231020
Lab Sample ID: 670-29049-26
Date Collected: 10/20/23 12:10
Matrix: Water
Date Received: 10/21/23 09:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	804880	MLL	EET SAV	10/27/23 01:12

Client Sample ID: LC34-DPT-1008-025.0-20231020
Lab Sample ID: 670-29049-27
Date Collected: 10/20/23 12:25
Matrix: Water
Date Received: 10/21/23 09:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		20	804880	MLL	EET SAV	10/27/23 04:47

Client Sample ID: LC34-DPT-1008-018.0-20231020
Lab Sample ID: 670-29049-28
Date Collected: 10/20/23 12:40
Matrix: Water
Date Received: 10/21/23 09:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		2	804880	MLL	EET SAV	10/27/23 03:43

Lab Chronicle

Client: Tetra Tech, Inc.
Job ID: 670-29049-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT-1008-013.0-20231020
Lab Sample ID: 670-29049-29
Date Collected: 10/20/23 12:55
Matrix: Water
Date Received: 10/21/23 09:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	804880	MLL	EET SAV	10/27/23 01:33

Client Sample ID: LC34-DPT-1008-008.0-20231020
Lab Sample ID: 670-29049-30
Date Collected: 10/20/23 13:10
Matrix: Water
Date Received: 10/21/23 09:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	804880	MLL	EET SAV	10/27/23 01:55

Client Sample ID: LC34-DPT-1009-008.0-20231020
Lab Sample ID: 670-29049-31
Date Collected: 10/20/23 13:55
Matrix: Water
Date Received: 10/21/23 09:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	804880	MLL	EET SAV	10/27/23 02:17

Client Sample ID: LC34-DPT-1009-013.0-20231020
Lab Sample ID: 670-29049-32
Date Collected: 10/20/23 14:05
Matrix: Water
Date Received: 10/21/23 09:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	804880	MLL	EET SAV	10/27/23 02:38

Client Sample ID: LC34-DPT-1009-018.0-20231020
Lab Sample ID: 670-29049-33
Date Collected: 10/20/23 14:15
Matrix: Water
Date Received: 10/21/23 09:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		5	805008	MLL	EET SAV	10/27/23 16:02

Client Sample ID: LC34-DPT-1009-025.0-20231020
Lab Sample ID: 670-29049-34
Date Collected: 10/20/23 14:30
Matrix: Water
Date Received: 10/21/23 09:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		5	805008	MLL	EET SAV	10/27/23 16:24
Total/NA	Analysis	8260D	DL	10	805008	MLL	EET SAV	10/27/23 17:28

Client Sample ID: LC34-DPT-1009-034.0-20231020
Lab Sample ID: 670-29049-35
Date Collected: 10/20/23 14:45
Matrix: Water
Date Received: 10/21/23 09:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		25	805008	MLL	EET SAV	10/27/23 15:19

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-29049-1

Client Sample ID: LC34-DPT-1009-038.0-20231020

Date Collected: 10/20/23 15:00
Date Received: 10/21/23 09:13

Lab Sample ID: 670-29049-36

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		200	805008	MLL	EET SAV	10/27/23 14:57

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: Tetra Tech, Inc.
Job ID: 670-29049-1
Project/Site: NASA KSC LC34 DPT

Laboratory: Eurofins Savannah

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
	AFCEE	SAVLAB	
Alabama	State	41450	06-30-24
ANAB	Dept. of Defense ELAP	L2463	09-22-24
Arkansas DEQ	State	19-015-0	02-01-24
California	State	2939	06-30-24
Florida	NELAP	E87052	06-30-24
Georgia	State	E87052	06-30-24
Georgia (DW)	State	803	06-30-24
Guam	State	19-007R	04-17-24
Hawaii	State	<cert No.>	06-30-24
Illinois	NELAP	200022	11-30-23
Indiana	State	C-GA-02	06-30-24
Iowa	State	353	07-01-25
Kentucky (UST)	State	NA	06-30-24
Louisiana	NELAP	30690	06-30-24
Louisiana (All)	NELAP	30690	06-30-24
Louisiana (DW)	State	LA009	12-31-23
Maine	State	GA00006	09-25-24
Maryland	State	250	12-31-23
Massachusetts	State	M-GA006	06-30-24
Michigan	State	9925	06-30-24
Mississippi	State	<cert No.>	06-30-24
Nebraska	State	NE-OS-7-04	06-30-24
New Jersey	NELAP	GA769	06-30-24
New Mexico	State	GA00006	06-30-24
North Carolina (DW)	State	13701	07-31-24
North Carolina (WW/SW)	State	269	12-31-23
Pennsylvania	NELAP	68-00474	06-30-24
Puerto Rico	State	GA00006	01-01-24
South Carolina	State	98001	06-24-24
Tennessee	State	TN02961	06-30-24
Texas	NELAP	T1047004185	11-30-23
Texas	TCEQ Water Supply	T104704185	06-30-24
USDA	US Federal Programs	P330-18-00313	09-03-24
Virginia	NELAP	460161	06-14-24
Wyoming	State	8TMS-L	06-30-24

Method Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-29049-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET SAV
5030B	Purge and Trap	SW846	EET SAV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Sample Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-29049-1

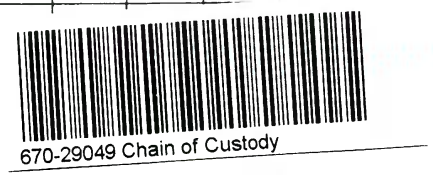
Lab Sample ID	Client Sample ID	Matrix	Collected	Received
670-29049-1	LC34-DPT-1004-038.0-20231019	Water	10/19/23 14:05	10/21/23 09:13
670-29049-2	LC34-DPT-1004-032.0-20231019	Water	10/19/23 14:20	10/21/23 09:13
670-29049-3	LC34-DPT-1004-025.0-20231019	Water	10/19/23 14:35	10/21/23 09:13
670-29049-4	LC34-DPT-1004-018.0-20231019	Water	10/19/23 14:50	10/21/23 09:13
670-29049-5	LC34-DPT-1004-013.0-20231019	Water	10/19/23 15:05	10/21/23 09:13
670-29049-6	LC34-DPT-1004-008.0-20231019	Water	10/19/23 15:20	10/21/23 09:13
670-29049-7	LC34-DPT-1005-038.0-20231019	Water	10/19/23 16:00	10/21/23 09:13
670-29049-8	LC34-DPT-1005-032.0-20231019	Water	10/19/23 16:15	10/21/23 09:13
670-29049-9	LC34-DPT-1005- 025.0-20231019	Water	10/19/23 16:30	10/21/23 09:13
670-29049-10	LC34-DPT-1005-018.0-20231019	Water	10/19/23 16:45	10/21/23 09:13
670-29049-11	LC34-DPT-1005- 013.0-20231019	Water	10/19/23 17:00	10/21/23 09:13
670-29049-12	LC34-DPT-1005-008.0-20231019	Water	10/19/23 17:15	10/21/23 09:13
670-29049-13	LC34-DPT-1006-038.0-20231020	Water	10/20/23 08:05	10/21/23 09:13
670-29049-14	LC34-DPT-1006- 032.0-20231020	Water	10/20/23 08:20	10/21/23 09:13
670-29049-15	LC34-DPT-1006- 025.0-20231020	Water	10/20/23 08:35	10/21/23 09:13
670-29049-16	LC34-DPT-1006-018.0-20231020	Water	10/20/23 08:50	10/21/23 09:13
670-29049-17	LC34-DPT-1006-013.0-20231020	Water	10/20/23 09:05	10/21/23 09:13
670-29049-18	LC34-DPT-1006-008.0-20231020	Water	10/20/23 09:20	10/21/23 09:13
670-29049-19	LC34-DPT-1007-038.0-20231020	Water	10/20/23 10:00	10/21/23 09:13
670-29049-20	LC34-DPT-1007-032.0-20231020	Water	10/20/23 10:15	10/21/23 09:13
670-29049-21	LC34-DPT-1007-025.0-20231020	Water	10/20/23 10:30	10/21/23 09:13
670-29049-22	LC34-DPT-1007- 018.0-20231020	Water	10/20/23 10:45	10/21/23 09:13
670-29049-23	LC34-DPT-1007-013.0-20231020	Water	10/20/23 11:00	10/21/23 09:13
670-29049-24	LC34-DPT-1007-008.0 -20231020	Water	10/20/23 11:15	10/21/23 09:13
670-29049-25	LC34-DPT-1008-038.0-20231020	Water	10/20/23 11:55	10/21/23 09:13
670-29049-26	LC34-DPT-1008-032.0-20231020	Water	10/20/23 12:10	10/21/23 09:13
670-29049-27	LC34-DPT-1008-025.0-20231020	Water	10/20/23 12:25	10/21/23 09:13
670-29049-28	LC34-DPT-1008-018.0-20231020	Water	10/20/23 12:40	10/21/23 09:13
670-29049-29	LC34-DPT-1008-013.0-20231020	Water	10/20/23 12:55	10/21/23 09:13
670-29049-30	LC34-DPT-1008-008.0-20231020	Water	10/20/23 13:10	10/21/23 09:13
670-29049-31	LC34-DPT-1009-008.0-20231020	Water	10/20/23 13:55	10/21/23 09:13
670-29049-32	LC34-DPT-1009-013.0-20231020	Water	10/20/23 14:05	10/21/23 09:13
670-29049-33	LC34-DPT-1009-018.0-20231020	Water	10/20/23 14:15	10/21/23 09:13
670-29049-34	LC34-DPT-1009-025.0-20231020	Water	10/20/23 14:30	10/21/23 09:13
670-29049-35	LC34-DPT-1009-034.0-20231020	Water	10/20/23 14:45	10/21/23 09:13
670-29049-36	LC34-DPT-1009-038.0-20231020	Water	10/20/23 15:00	10/21/23 09:13

Tetra Tech, Inc. CHAIN OF CUSTODY | NUMBER No. 3780 | PAGE 1 OF 3

PROJECT NO: 112G08985	FACILITY: KSC-LC34	PROJECT MANAGER Mark Jonnet	PHONE NUMBER (412) 921-8622	LABORATORY NAME AND CONTACT: Eurofins — Kaitlin Dylnicki
SAMPLERS (SIGNATURE) Chuck Sorden		FIELD OPERATIONS LEADER Chuck Sorden	PHONE NUMBER (321) 591-7580	ADDRESS 481 Newburyport Ave.
		CARRIER/WAYBILL NUMBER		CITY, STATE Altamonte Springs, FL

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE (YEAR 2023)	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)		PRESERVATIVE USED		TYPE OF ANALYSIS	COMMENTS
									G	G	HCl	4°C	8260D-(MOD) NASA LC34 Custom List / 8260D-(MOD) NASA LC34 Custom List	
10/19	1405	LC34-DPT1004-038.0-20231019	142	36	40	GW	G	4	X	X				
	1420	LC34-DPT1004-032.0-20231019		30	34									
	1435	LC34-DPT1004-025.0-20231019		23	27									
	1450	LC34-DPT1004-018.0-20231019		16	20									
	1505	LC34-DPT1004-013.0-20231019		11	15									
	1520	LC34-DPT1004-008.0-20231019	142	6	10									
	1600	LC34-DPT1005-038.0-20231019	141	36	40									
	1615	LC34-DPT1005-032.0-20231019		30	34									
	1630	LC34-DPT1005-~~032.0~~ 025.0-20231019		23	27									
	1645	LC34-DPT1005-018.0-20231019		16	20									
	1700	LC34-DPT1005-013.0-20231019		11	15									
10/19	1715	LC34-DPT1005-008.0-20231019	141	6	10									
10/20	0805	LC34-DPT1006-038.0-20231~~019~~ 020	140	36	40	GW	G	4	X	X				



1. RELINQUISHED BY	DATE 10/20/23	TIME 1415	1. RECEIVED BY MC
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY

DATE	TIME
10/21/23	8:00

COMMENTS 1.0/0.5 1.5/1.0

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY) 4/02R

596

FORM NO. TtNUS-0002 11/6/2023

Tetra Tech, Inc.

CHAIN OF CUSTODY | NUMBER No. 3781 | PAGE 2 OF 3

PROJECT NO: 112G08985	FACILITY: KSC-LC34	PROJECT MANAGER Mark Jonnet	PHONE NUMBER (412) 921-8622	LABORATORY NAME AND CONTACT: Eurofins — Kaitlin Dylnicki
SAMPLERS (SIGNATURE) - Chuck Sorden		FIELD OPERATIONS LEADER Chuck Sorden	PHONE NUMBER (321) 591-7580	ADDRESS 481 Newburyport Ave.
		CARRIER/WAYBILL NUMBER		CITY, STATE Altamonte Springs, FL

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2023	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G): G	G	PRESERVATIVE USED: HCl/4°C	4°C	TYPE OF ANALYSIS: 8260D-(MOD) NASA LC34 Custom List	8260D-(MOD) NASA LC34-Custom List	COMMENTS
10/20	0820	LC34-DPT1006-032.0-20231020	140	30	34	GW	G	4	X	X					
1	0835	LC34-DPT1006-025.0-20231020	↑	23	27	↑	↑	↑	↑	↑					
	0850	LC34-DPT1006-018.0-20231020		16	20										
	0905	LC34-DPT1006-013.0-20231020	↓	11	15										
	0920	LC34-DPT1006-008.0-20231020	140	6	10										
	1000	LC34-DPT1007-038.0-20231020	139	36	40										
	1015	LC34-DPT1007-032-20231020	↑	30	34										
	1030	LC34-DPT1007-025.0-20231020		23	27										
	1045	LC34-DPT1007-018.0-20231020		16	20										
	1100	LC34-DPT1007-013.0-20231020	↓	11	15										
	1115	LC34-DPT1007-008.0-20231020	139	6	10										
↓	1155	LC34-DPT1008-038.0-20231020	138	36	40	↓	↓	↓	↓	↓					
10/20	1210	LC34-DPT1008-032.0-20231020	138	30	34	GW	G	4	X	X					

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	10/20/23	1515	1. RECEIVED BY MC	10/21/23	8:00
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

10/0.5 1.5/1.0

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

Tetra Tech, Inc.

CHAIN OF CUSTODY | NUMBER No. 3789 | PAGE 3 OF 3

PROJECT NO: 112G-08985	FACILITY: KSC-LC34	PROJECT MANAGER Mark Jonnet	PHONE NUMBER (412) 921-8622	LABORATORY NAME AND CONTACT: Eurofins – Kaitlin Dylnicki
SAMPLERS (SIGNATURE) – Chuck Sorden		FIELD OPERATIONS LEADER Chuck Sorden	PHONE NUMBER (321) 591-7580	ADDRESS 481 Newburyport Ave.
		CARRIER/WAYBILL NUMBER		CITY, STATE Altamonte Springs FL

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2023	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G): G	G							
									PRESERVATIVE USED:	HCl/4°C	4°C						
									TYPE OF ANALYSIS: 8260B/8260D-(MCO) NAS4 LC34 Custom List	8260B-(MCO) NAS4 LC34 Custom List							COMMENTS
10/20	1225	LC34-DPT1008-025.0-20231020	138	23	27	GW	G	4	X	X							
1	1240	LC34-DPT1008-018.0-20231020	↑	16	20	1	1	1	1	1							
	1255	LC34-DPT1008-013.0-20231020	↓	11	15												
	1310	LC34-DPT1008-008.0-20231020	138	6	10												
	1355	LC34-DPT1009-008.0-20231020	01	6	10												
	1405	LC34-DPT1009-013.0-20231020	↑	11	15												
	1415	LC34-DPT1009-018.0-20231020		16	20												
	1430	LC34-DPT1009-025.0-20231020		23	27												
↓	1445	LC34-DPT1009-034.0-20231020	↓	32	36	↓	↓	↓	↓	↓							
10/20	1500	LC34-DPT1009-038.0-20231020	01	36	40	GW	G	4	X	X							

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	10/20/23	1515	1. RECEIVED BY MC	10/21/23	8:00
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS 1.065 1.5/1.0 .596

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

Chain of Custody Record

eurofins

Environment Testing

Phone: 407-339-5984 Fax: 407-260-6110

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Dylnicki, Kaitlin	Carrier Tracking No(s):	COC No: 670-17455.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: kaitlin.dylnicki@et.eurofinsus.com	State of Origin: Florida	Page: Page 1 of 4
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP - Florida		Job #: 670-29049-1
Address: 5102 LaRoche Avenue, ,	Due Date Requested: 11/1/2023			
City: Savannah	TAT Requested (days):			
State, Zip: GA, 31404				
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	PO #:			
Email:	WO #:			
Project Name: NASA KSC LC34	Project #: 67001156			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D/5030B (MOD) NASA LC34 Custom	8260D/5030B_UP (MOD) NASA LC34 Custom	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
LC34-DPT-1004-038.0-20231019 (670-29049-1)	10/19/23	14:05 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP. use caution site high in TCE. UNP
LC34-DPT-1004-032.0-20231019 (670-29049-2)	10/19/23	14:20 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP. use caution site high in TCE. UNP
LC34-DPT-1004-025.0-20231019 (670-29049-3)	10/19/23	14:35 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP. use caution site high in TCE. UNP
LC34-DPT-1004-018.0-20231019 (670-29049-4)	10/19/23	14:50 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP. use caution site high in TCE. UNP
LC34-DPT-1004-013.0-20231019 (670-29049-5)	10/19/23	15:05 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP. use caution site high in TCE. UNP
LC34-DPT-1004-008.0-20231019 (670-29049-6)	10/19/23	15:20 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP. use caution site high in TCE. UNP
LC34-DPT-1005-038.0-20231019 (670-29049-7)	10/19/23	16:00 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP. use caution site high in TCE. UNP
LC34-DPT-1005-032.0-20231019 (670-29049-8)	10/19/23	16:15 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP. use caution site high in TCE. UNP
LC34-DPT-1005- 025.0-20231019 (670-29049-9)	10/19/23	16:30 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP. use caution site high in TCE. UNP

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	10/23 1200		TH	10:02	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 10:24.23	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.5-1.8

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 670-29049-1

Login Number: 29049
List Number: 1
Creator: Clerisier, Meline

List Source: Eurofins Orlando

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.		
The cooler's custody seal, if present, is intact.		
Sample custody seals, if present, are intact.		
The cooler or samples do not appear to have been compromised or tampered with.		
Samples were received on ice.		
Cooler Temperature is acceptable.		
Cooler Temperature is recorded.		
COC is present.		
COC is filled out in ink and legible.		
COC is filled out with all pertinent information.		
Is the Field Sampler's name present on COC?		
There are no discrepancies between the containers received and the COC.		
Samples are received within Holding Time (excluding tests with immediate HTs)		
Sample containers have legible labels.		
Containers are not broken or leaking.		
Sample collection date/times are provided.		
Appropriate sample containers are used.		
Sample bottles are completely filled.		
Sample Preservation Verified.		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs		
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").		
Multiphasic samples are not present.		
Samples do not require splitting or compositing.		
Residual Chlorine Checked.		

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 670-29049-1

Login Number: 29049
List Number: 2
Creator: Harley, Tynisha

List Source: Eurofins Savannah
List Creation: 10/24/23 01:28 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Mark Jonnet
Tetra Tech, Inc.
Foster Plaza 7
661 Anderson Drive
Suite 200
Pittsburgh, Pennsylvania 15220-2745

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JOB DESCRIPTION

NASA KSC LC34 DPT

JOB NUMBER

670-29236-1

Eurofins Orlando
481 Newburyport Avenue
Altamonte Springs FL 32701

See page two for job notes and contact information.

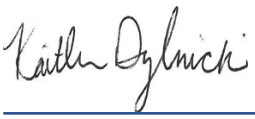
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Job Notes

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The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization



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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	ISTD response or retention time outside acceptable limits
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J1	Estimated value; value may not be accurate. Surrogate recovery outside of criteria.
J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
U	Indicates that the compound was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 670-29236-1

Laboratory: Eurofins Orlando

Narrative

Job Narrative
Client: Tetra Tech
Client PM: Mark Jonnet
Project: NASA KSC LC34
Project Number: 112G08985
670-29236-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 10/25/2023 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.5°C

GC/MS VOA
Method 8260D: Surrogate recovery was outside acceptance limits for the following matrix spike/matrix spike duplicate (MS/MSD) samples: (670-29236-D-6 MS) and (670-29236-D-6 MSD). The parent sample's surrogate recovery was within limits. The MS/MSD sample has been qualified and reported.

Method 8260D: The continuing calibration verification (CCV) associated with batch 680-805207 recovered outside acceptance criteria, low biased, for 1,2,4-Trichlorobenzene, 1,2-Dibromo-3-Chloropropane, 2-Butanone (MEK) and Bromoform. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

Method 8260D: The continuing calibration verification (CCV) associated with batch 680-805207 recovered above the upper control limit for Bromomethane, Chloroethane and Trichlorofluoromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260D: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 680-805207 recovered outside control limits for the following analytes: Trichlorofluoromethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D: The laboratory control sample (LCS) for analytical batch 680-805207 recovered outside control limits for the following analyte(s): 1,2-Dibromo-3-Chloropropane. 1,2-Dibromo-3-Chloropropane have been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260D: The following samples were diluted to bring the concentration of target analytes within the calibration range: LC34-DPT1010-038.0-20231023 (670-29236-6), LC34-DPT0962-038.0-20231023 (670-29236-8) and LC34-DPT0961-038.0-20231023 (670-29236-10). Elevated reporting limits (RLs) are provided.

Method 8260D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 680-805207 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8260D: The continuing calibration verification (CCV) associated with batch 680-805498 recovered outside acceptance criteria, low biased, for 1,2-Dibromo-3-Chloropropane. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the

Job ID: 670-29236-1 (Continued)

Laboratory: Eurofins Orlando (Continued)

associated samples were non-detect for the analyte(s), the data are reported.

Method 8260D: The laboratory control sample duplicate (LCSD) for analytical batch 680-805498 recovered outside control limits for the following analytes: 2-Hexanone, 4-Methyl-2-pentanone, Acetone and Bromoform. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D: The continuing calibration verification (CCV) associated with batch 680-805493 recovered outside control limits for the following analyte(s): Acetone, Bromomethane and Chloroethane . These analytes have been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260D: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for analytical batch 680-805493 recovered outside control limits for the following analyte(s): Acetone. Acetone has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260D: The following sample was diluted to bring the concentration of target analytes within the calibration range: LC34-DPT0969-038.0-20231024 (670-29236-26). Elevated reporting limits (RLs) are provided.

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-805493.

Method 8260D: Surrogate recovery for the following sample was outside control limits: LC34-DPT0969-038.0-20231024 (670-29236-26). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8260D: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 680-805498 recovered outside control limits for the following analytes: 2-Hexanone.

Method 8260D: The laboratory control sample duplicate (LCSD) for analytical batch 680-805498 recovered outside control limits for the following analyte(s): 2-Butanone (MEK). 2-Butanone (MEK) has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260D: The following samples were diluted to bring the concentration of target analytes within the calibration range: LC34-DPT0963-038.0-20231024 (670-29236-18), LC34-DPT0965-038.0-20231024 (670-29236-20), LC34-DPT0966-043.0-20231024 (670-29236-21), LC34-DPT0966-038.0-20231024 (670-29236-22), LC34-DPT0967-038.0-20231024 (670-29236-24), LC34-DPT0970-038.0-20231024 (670-29236-28), LC34-DPT0994-043.-20231024 (670-29236-29) and LC34-DPT0994-038.0-20231024 (670-29236-30). Elevated reporting limits (RLs) are provided.

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-805498.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-29236-1

Client Sample ID: LC34-DPT1010-008.0-20231023 — Lab Sample ID: 670-29236-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.69	I	1.0	0.25	ug/L	1		8260D	Total/NA
Trichloroethene	0.53	I	1.0	0.20	ug/L	1		8260D	Total/NA
Vinyl chloride	0.50	I	1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT1010-013.0-20231023 — Lab Sample ID: 670-29236-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.99	I	1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	2.9		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT1010-018.0-20231023 — Lab Sample ID: 670-29236-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.0		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	3.6		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT1010-025.0-20231023 — Lab Sample ID: 670-29236-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	4.7		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	12		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT1010-034.0-20231023 — Lab Sample ID: 670-29236-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	22		1.0	0.25	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	0.98	I	1.0	0.34	ug/L	1		8260D	Total/NA
Vinyl chloride	87		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT1010-038.0-20231023 — Lab Sample ID: 670-29236-6

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	20000		200	50	ug/L	200		8260D	Total/NA
trans-1,2-Dichloroethene	400		200	68	ug/L	200		8260D	Total/NA
Vinyl chloride	5100		200	80	ug/L	200		8260D	Total/NA

Client Sample ID: LC34-DPT0962-043.0-20231023 — Lab Sample ID: 670-29236-7

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.9		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	52		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0962-038.0-20231023 — Lab Sample ID: 670-29236-8

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	76		5.0	1.3	ug/L	5		8260D	Total/NA
Vinyl chloride	350		5.0	2.0	ug/L	5		8260D	Total/NA

Client Sample ID: LC34-DPT0961-043.0-20231023 — Lab Sample ID: 670-29236-9

No Detections.

Client Sample ID: LC34-DPT0961-038.0-20231023 — Lab Sample ID: 670-29236-10

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	600		5.0	1.3	ug/L	5		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Orlando

Client Sample ID: LC34-DPT0961-038.0-20231023 (Continued) — Lab Sample ID: 670-29236-10

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	7.6		5.0	2.0	ug/L	5		8260D	Total/NA

Client Sample ID: LC34-DPT0960-043.0-20231023 — Lab Sample ID: 670-29236-11

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	36		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	39		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0960-038.0-20231023 — Lab Sample ID: 670-29236-12

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	2300		25	10	ug/L	25		8260D	Total/NA

Client Sample ID: LC34-DPT0959-043.0-20231023 — Lab Sample ID: 670-29236-13

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	7.7		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	0.40	I	1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0959-038.0-20231023 — Lab Sample ID: 670-29236-14

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1200		10	2.5	ug/L	10		8260D	Total/NA
Vinyl chloride	200		10	4.0	ug/L	10		8260D	Total/NA

Client Sample ID: LC34-DPT0958-043.0-20231023 — Lab Sample ID: 670-29236-15

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	44		2.0	0.50	ug/L	2		8260D	Total/NA
Vinyl chloride	120		2.0	0.80	ug/L	2		8260D	Total/NA

Client Sample ID: LC34-DPT0958-038.0-20231023 — Lab Sample ID: 670-29236-16

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	43		10	2.5	ug/L	10		8260D	Total/NA
Vinyl chloride	1400		10	4.0	ug/L	10		8260D	Total/NA

Client Sample ID: LC34-DPT0963-043.0-20231024 — Lab Sample ID: 670-29236-17

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	170		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	1.2		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0963-038.0-20231024 — Lab Sample ID: 670-29236-18

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1700		25	6.3	ug/L	25		8260D	Total/NA
Vinyl chloride	930		25	10	ug/L	25		8260D	Total/NA

Client Sample ID: LC34-DPT0965-043.0-20231024 — Lab Sample ID: 670-29236-19

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	190		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	36		1.0	0.40	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-29236-1

Client Sample ID: LC34-DPT0965-038.0-20231024 — Lab Sample ID: 670-29236-20

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	710		10	2.5	ug/L	10		8260D	Total/NA
Vinyl chloride	1900		10	4.0	ug/L	10		8260D	Total/NA

Client Sample ID: LC34-DPT0966-043.0-20231024 — Lab Sample ID: 670-29236-21

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.4	I	5.0	1.3	ug/L	5		8260D	Total/NA
Vinyl chloride	560		5.0	2.0	ug/L	5		8260D	Total/NA

Client Sample ID: LC34-DPT0966-038.0-20231024 — Lab Sample ID: 670-29236-22

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	3.5	I	10	2.5	ug/L	10		8260D	Total/NA
Vinyl chloride	1500		10	4.0	ug/L	10		8260D	Total/NA

Client Sample ID: LC34-DPT0967-043.0-20231024 — Lab Sample ID: 670-29236-23

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.0		1.0	0.25	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0967-038.0-20231024 — Lab Sample ID: 670-29236-24

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	190		2.0	0.50	ug/L	2		8260D	Total/NA
Trichloroethene	0.68	I	2.0	0.40	ug/L	2		8260D	Total/NA
Vinyl chloride	6.4		2.0	0.80	ug/L	2		8260D	Total/NA

Client Sample ID: LC34-DPT0969-043.0-20231024 — Lab Sample ID: 670-29236-25

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.84	I	1.0	0.25	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0969-038.0-20231024 — Lab Sample ID: 670-29236-26

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	13000		100	25	ug/L	100		8260D	Total/NA
trans-1,2-Dichloroethene	130		100	34	ug/L	100		8260D	Total/NA
Vinyl chloride	2300		100	40	ug/L	100		8260D	Total/NA

Client Sample ID: LC34-DPT0970-043.0-20231024 — Lab Sample ID: 670-29236-27

No Detections.

Client Sample ID: LC34-DPT0970-038.0-20231024 — Lab Sample ID: 670-29236-28

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	59	J3	50	32	ug/L	5		8260D	Total/NA
Carbon tetrachloride	17		5.0	1.5	ug/L	5		8260D	Total/NA
Chloroform	3.3	I	5.0	1.4	ug/L	5		8260D	Total/NA
cis-1,2-Dichloroethene	460		5.0	1.3	ug/L	5		8260D	Total/NA
Vinyl chloride	77		5.0	2.0	ug/L	5		8260D	Total/NA

Client Sample ID: LC34-DPT0994-043.-20231024 — Lab Sample ID: 670-29236-29

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.3	I	5.0	1.3	ug/L	5		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Orlando

Client Sample ID: LC34-DPT0994-043.-20231024 (Continued)
Lab Sample ID: 670-29236-29

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	370		5.0	2.0	ug/L	5		8260D	Total/NA

Client Sample ID: LC34-DPT0994-038.0-20231024
Lab Sample ID: 670-29236-30

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	2700		25	10	ug/L	25		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Tetra Tech, Inc.
Job ID: 670-29236-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT1010-008.0-20231023
Lab Sample ID: 670-29236-1
Date Collected: 10/23/23 09:35
Matrix: Water
Date Received: 10/25/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/29/23 16:36	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/29/23 16:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/29/23 16:36	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/29/23 16:36	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/29/23 16:36	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/29/23 16:36	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/29/23 16:36	1
1,2-Dibromo-3-Chloropropane	1.8	U J3	5.0	1.8	ug/L			10/29/23 16:36	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/29/23 16:36	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/29/23 16:36	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/29/23 16:36	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/29/23 16:36	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/29/23 16:36	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/29/23 16:36	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/29/23 16:36	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/29/23 16:36	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/29/23 16:36	1
Acetone	3.7	U	10	3.7	ug/L			10/29/23 16:36	1
Benzene	0.27	U	1.0	0.27	ug/L			10/29/23 16:36	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/29/23 16:36	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/29/23 16:36	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/29/23 16:36	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/29/23 16:36	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/29/23 16:36	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/29/23 16:36	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/29/23 16:36	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/29/23 16:36	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/29/23 16:36	1
cis-1,2-Dichloroethene	**0.69**	**I**	1.0	0.25	ug/L			10/29/23 16:36	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/29/23 16:36	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/29/23 16:36	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/29/23 16:36	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/29/23 16:36	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/29/23 16:36	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/29/23 16:36	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/29/23 16:36	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/29/23 16:36	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/29/23 16:36	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/29/23 16:36	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/29/23 16:36	1
Styrene	0.27	U	1.0	0.27	ug/L			10/29/23 16:36	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/29/23 16:36	1
Toluene	0.25	U	1.0	0.25	ug/L			10/29/23 16:36	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/29/23 16:36	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/29/23 16:36	1
Trichloroethene	**0.53**	**I**	1.0	0.20	ug/L			10/29/23 16:36	1
Trichlorofluoromethane	0.33	U J3	1.0	0.33	ug/L			10/29/23 16:36	1
Vinyl chloride	**0.50**	**I**	1.0	0.40	ug/L			10/29/23 16:36	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/29/23 16:36	1

Client Sample ID: LC34-DPT1010-008.0-20231023
Lab Sample ID: 670-29236-1

Date Collected: 10/23/23 09:35
Matrix: Water
Date Received: 10/25/23 08:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 124*		*10/29/23 16:36*	*1*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*10/29/23 16:36*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*10/29/23 16:36*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*10/29/23 16:36*	*1*

Client Sample ID: LC34-DPT1010-013.0-20231023
Lab Sample ID: 670-29236-2

Date Collected: 10/23/23 09:50
Matrix: Water
Date Received: 10/25/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/29/23 16:55	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/29/23 16:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/29/23 16:55	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/29/23 16:55	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/29/23 16:55	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/29/23 16:55	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/29/23 16:55	1
1,2-Dibromo-3-Chloropropane	1.8	U J3	5.0	1.8	ug/L			10/29/23 16:55	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/29/23 16:55	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/29/23 16:55	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/29/23 16:55	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/29/23 16:55	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/29/23 16:55	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/29/23 16:55	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/29/23 16:55	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/29/23 16:55	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/29/23 16:55	1
Acetone	3.7	U	10	3.7	ug/L			10/29/23 16:55	1
Benzene	0.27	U	1.0	0.27	ug/L			10/29/23 16:55	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/29/23 16:55	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/29/23 16:55	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/29/23 16:55	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/29/23 16:55	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/29/23 16:55	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/29/23 16:55	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/29/23 16:55	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/29/23 16:55	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/29/23 16:55	1
cis-1,2-Dichloroethene	**0.99**	**I**	1.0	0.25	ug/L			10/29/23 16:55	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/29/23 16:55	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/29/23 16:55	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/29/23 16:55	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/29/23 16:55	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/29/23 16:55	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/29/23 16:55	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/29/23 16:55	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/29/23 16:55	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/29/23 16:55	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/29/23 16:55	1

Client Sample ID: LC34-DPT1010-013.0-20231023
Lab Sample ID: 670-29236-2

Date Collected: 10/23/23 09:50
Matrix: Water
Date Received: 10/25/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	0.26	U	1.0	0.26	ug/L			10/29/23 16:55	1
Styrene	0.27	U	1.0	0.27	ug/L			10/29/23 16:55	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/29/23 16:55	1
Toluene	0.25	U	1.0	0.25	ug/L			10/29/23 16:55	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/29/23 16:55	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/29/23 16:55	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/29/23 16:55	1
Trichlorofluoromethane	0.33	U J3	1.0	0.33	ug/L			10/29/23 16:55	1
Vinyl chloride	**2.9**		1.0	0.40	ug/L			10/29/23 16:55	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/29/23 16:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 124*		*10/29/23 16:55*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*10/29/23 16:55*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*10/29/23 16:55*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*10/29/23 16:55*	*1*

Client Sample ID: LC34-DPT1010-018.0-20231023
Lab Sample ID: 670-29236-3

Date Collected: 10/23/23 10:05
Matrix: Water
Date Received: 10/25/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/29/23 17:14	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/29/23 17:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/29/23 17:14	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/29/23 17:14	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/29/23 17:14	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/29/23 17:14	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/29/23 17:14	1
1,2-Dibromo-3-Chloropropane	1.8	U J3	5.0	1.8	ug/L			10/29/23 17:14	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/29/23 17:14	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/29/23 17:14	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/29/23 17:14	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/29/23 17:14	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/29/23 17:14	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/29/23 17:14	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/29/23 17:14	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/29/23 17:14	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/29/23 17:14	1
Acetone	3.7	U	10	3.7	ug/L			10/29/23 17:14	1
Benzene	0.27	U	1.0	0.27	ug/L			10/29/23 17:14	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/29/23 17:14	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/29/23 17:14	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/29/23 17:14	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/29/23 17:14	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/29/23 17:14	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/29/23 17:14	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/29/23 17:14	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/29/23 17:14	1

Client Sample ID: LC34-DPT1010-018.0-20231023
Lab Sample ID: 670-29236-3

Date Collected: 10/23/23 10:05
Matrix: Water
Date Received: 10/25/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	0.54	U	1.0	0.54	ug/L			10/29/23 17:14	1
cis-1,2-Dichloroethene	**2.0**		1.0	0.25	ug/L			10/29/23 17:14	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/29/23 17:14	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/29/23 17:14	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/29/23 17:14	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/29/23 17:14	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/29/23 17:14	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/29/23 17:14	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/29/23 17:14	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/29/23 17:14	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/29/23 17:14	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/29/23 17:14	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/29/23 17:14	1
Styrene	0.27	U	1.0	0.27	ug/L			10/29/23 17:14	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/29/23 17:14	1
Toluene	0.25	U	1.0	0.25	ug/L			10/29/23 17:14	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/29/23 17:14	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/29/23 17:14	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/29/23 17:14	1
Trichlorofluoromethane	0.33	U J3	1.0	0.33	ug/L			10/29/23 17:14	1
Vinyl chloride	**3.6**		1.0	0.40	ug/L			10/29/23 17:14	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/29/23 17:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 124*		*10/29/23 17:14*	*1*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*		*10/29/23 17:14*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*10/29/23 17:14*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*10/29/23 17:14*	*1*

Client Sample ID: LC34-DPT1010-025.0-20231023
Lab Sample ID: 670-29236-4

Date Collected: 10/23/23 10:20
Matrix: Water
Date Received: 10/25/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/29/23 17:33	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/29/23 17:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/29/23 17:33	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/29/23 17:33	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/29/23 17:33	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/29/23 17:33	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/29/23 17:33	1
1,2-Dibromo-3-Chloropropane	1.8	U J3	5.0	1.8	ug/L			10/29/23 17:33	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/29/23 17:33	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/29/23 17:33	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/29/23 17:33	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/29/23 17:33	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/29/23 17:33	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/29/23 17:33	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/29/23 17:33	1

Client Sample ID: LC34-DPT1010-025.0-20231023
Lab Sample ID: 670-29236-4

Date Collected: 10/23/23 10:20
Matrix: Water
Date Received: 10/25/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	3.2	U	10	3.2	ug/L			10/29/23 17:33	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/29/23 17:33	1
Acetone	3.7	U	10	3.7	ug/L			10/29/23 17:33	1
Benzene	0.27	U	1.0	0.27	ug/L			10/29/23 17:33	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/29/23 17:33	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/29/23 17:33	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/29/23 17:33	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/29/23 17:33	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/29/23 17:33	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/29/23 17:33	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/29/23 17:33	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/29/23 17:33	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/29/23 17:33	1
cis-1,2-Dichloroethene	**4.7**		1.0	0.25	ug/L			10/29/23 17:33	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/29/23 17:33	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/29/23 17:33	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/29/23 17:33	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/29/23 17:33	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/29/23 17:33	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/29/23 17:33	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/29/23 17:33	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/29/23 17:33	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/29/23 17:33	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/29/23 17:33	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/29/23 17:33	1
Styrene	0.27	U	1.0	0.27	ug/L			10/29/23 17:33	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/29/23 17:33	1
Toluene	0.25	U	1.0	0.25	ug/L			10/29/23 17:33	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/29/23 17:33	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/29/23 17:33	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/29/23 17:33	1
Trichlorofluoromethane	0.33	U J3	1.0	0.33	ug/L			10/29/23 17:33	1
Vinyl chloride	**12**		1.0	0.40	ug/L			10/29/23 17:33	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/29/23 17:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 124*		*10/29/23 17:33*	*1*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*10/29/23 17:33*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*10/29/23 17:33*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/29/23 17:33*	*1*

Client Sample ID: LC34-DPT1010-034.0-20231023
Lab Sample ID: 670-29236-5

Date Collected: 10/23/23 10:40
Matrix: Water
Date Received: 10/25/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/29/23 17:52	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/29/23 17:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/29/23 17:52	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-29236-1

Client Sample ID: LC34-DPT1010-034.0-20231023
Date Collected: 10/23/23 10:40
Date Received: 10/25/23 08:00

Lab Sample ID: 670-29236-5
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/29/23 17:52	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/29/23 17:52	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/29/23 17:52	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/29/23 17:52	1
1,2-Dibromo-3-Chloropropane	1.8	U J3	5.0	1.8	ug/L			10/29/23 17:52	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/29/23 17:52	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/29/23 17:52	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/29/23 17:52	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/29/23 17:52	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/29/23 17:52	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/29/23 17:52	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/29/23 17:52	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/29/23 17:52	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/29/23 17:52	1
Acetone	3.7	U	10	3.7	ug/L			10/29/23 17:52	1
Benzene	0.27	U	1.0	0.27	ug/L			10/29/23 17:52	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/29/23 17:52	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/29/23 17:52	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/29/23 17:52	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/29/23 17:52	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/29/23 17:52	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/29/23 17:52	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/29/23 17:52	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/29/23 17:52	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/29/23 17:52	1
cis-1,2-Dichloroethene	**22**		1.0	0.25	ug/L			10/29/23 17:52	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/29/23 17:52	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/29/23 17:52	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/29/23 17:52	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/29/23 17:52	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/29/23 17:52	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/29/23 17:52	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/29/23 17:52	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/29/23 17:52	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/29/23 17:52	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/29/23 17:52	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/29/23 17:52	1
Styrene	0.27	U	1.0	0.27	ug/L			10/29/23 17:52	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/29/23 17:52	1
Toluene	0.25	U	1.0	0.25	ug/L			10/29/23 17:52	1
trans-1,2-Dichloroethene	**0.98**	**I**	1.0	0.34	ug/L			10/29/23 17:52	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/29/23 17:52	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/29/23 17:52	1
Trichlorofluoromethane	0.33	U J3	1.0	0.33	ug/L			10/29/23 17:52	1
Vinyl chloride	**87**		1.0	0.40	ug/L			10/29/23 17:52	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/29/23 17:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 124*		*10/29/23 17:52*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*10/29/23 17:52*	*1*

Client Sample ID: LC34-DPT1010-034.0-20231023
Lab Sample ID: 670-29236-5

Date Collected: 10/23/23 10:40
Matrix: Water
Date Received: 10/25/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*10/29/23 17:52*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*10/29/23 17:52*	*1*

Client Sample ID: LC34-DPT1010-038.0-20231023
Lab Sample ID: 670-29236-6

Date Collected: 10/23/23 11:00
Matrix: Water
Date Received: 10/25/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	42	U	200	42	ug/L			10/29/23 19:31	200
1,1,2,2-Tetrachloroethane	80	U	200	80	ug/L			10/29/23 19:31	200
1,1,2-Trichloro-1,2,2-trifluoroethane	46	U	200	46	ug/L			10/29/23 19:31	200
1,1,2-Trichloroethane	64	U	200	64	ug/L			10/29/23 19:31	200
1,1-Dichloroethane	66	U	200	66	ug/L			10/29/23 19:31	200
1,1-Dichloroethene	66	U	200	66	ug/L			10/29/23 19:31	200
1,2,4-Trichlorobenzene	110	U	1000	110	ug/L			10/29/23 19:31	200
1,2-Dibromo-3-Chloropropane	360	U J3	1000	360	ug/L			10/29/23 19:31	200
1,2-Dibromoethane (EDB)	66	U	200	66	ug/L			10/29/23 19:31	200
1,2-Dichlorobenzene	62	U	200	62	ug/L			10/29/23 19:31	200
1,2-Dichloroethane	50	U	200	50	ug/L			10/29/23 19:31	200
1,2-Dichloropropane	44	U	200	44	ug/L			10/29/23 19:31	200
1,3-Dichlorobenzene	62	U	200	62	ug/L			10/29/23 19:31	200
1,4-Dichlorobenzene	62	U	200	62	ug/L			10/29/23 19:31	200
2-Butanone (MEK)	1300	U	2000	1300	ug/L			10/29/23 19:31	200
2-Hexanone	640	U	2000	640	ug/L			10/29/23 19:31	200
4-Methyl-2-pentanone	540	U	2000	540	ug/L			10/29/23 19:31	200
Acetone	740	U	2000	740	ug/L			10/29/23 19:31	200
Benzene	54	U	200	54	ug/L			10/29/23 19:31	200
Bromodichloromethane	50	U	200	50	ug/L			10/29/23 19:31	200
Bromoform	120	U	200	120	ug/L			10/29/23 19:31	200
Bromomethane	740	U	1000	740	ug/L			10/29/23 19:31	200
Carbon disulfide	86	U	400	86	ug/L			10/29/23 19:31	200
Carbon tetrachloride	60	U	200	60	ug/L			10/29/23 19:31	200
Chlorobenzene	30	U	200	30	ug/L			10/29/23 19:31	200
Chloroethane	920	U	1000	920	ug/L			10/29/23 19:31	200
Chloroform	54	U	200	54	ug/L			10/29/23 19:31	200
Chloromethane	110	U	200	110	ug/L			10/29/23 19:31	200
cis-1,2-Dichloroethene	**20000**		200	50	ug/L			10/29/23 19:31	200
cis-1,3-Dichloropropene	52	U	200	52	ug/L			10/29/23 19:31	200
Cyclohexane	56	U	200	56	ug/L			10/29/23 19:31	200
Dibromochloromethane	78	U	200	78	ug/L			10/29/23 19:31	200
Dichlorodifluoromethane	72	U	200	72	ug/L			10/29/23 19:31	200
Ethylbenzene	40	U	200	40	ug/L			10/29/23 19:31	200
Isopropylbenzene	52	U	200	52	ug/L			10/29/23 19:31	200
m,p-Xylenes	98	U	200	98	ug/L			10/29/23 19:31	200
Methyl acetate	640	U	1000	640	ug/L			10/29/23 19:31	200
Methyl tert-butyl ether	160	U	1000	160	ug/L			10/29/23 19:31	200
Methylene Chloride	640	U	1000	640	ug/L			10/29/23 19:31	200
o-Xylene	52	U	200	52	ug/L			10/29/23 19:31	200

Client Sample ID: LC34-DPT1010-038.0-20231023
Lab Sample ID: 670-29236-6

Date Collected: 10/23/23 11:00
Matrix: Water
Date Received: 10/25/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	54	U	200	54	ug/L			10/29/23 19:31	200
Tetrachloroethene	70	U	200	70	ug/L			10/29/23 19:31	200
Toluene	50	U	200	50	ug/L			10/29/23 19:31	200
trans-1,2-Dichloroethene	**400**		200	68	ug/L			10/29/23 19:31	200
trans-1,3-Dichloropropene	46	U	200	46	ug/L			10/29/23 19:31	200
Trichloroethene	40	U	200	40	ug/L			10/29/23 19:31	200
Trichlorofluoromethane	66	U J3	200	66	ug/L			10/29/23 19:31	200
Vinyl chloride	**5100**		200	80	ug/L			10/29/23 19:31	200
Xylenes, Total	46	U	200	46	ug/L			10/29/23 19:31	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 124*		*10/29/23 19:31*	*200*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*10/29/23 19:31*	*200*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*10/29/23 19:31*	*200*
Toluene-d8 (Surr)	*99*		*70 - 130*		*10/29/23 19:31*	*200*

Client Sample ID: LC34-DPT0962-043.0-20231023
Lab Sample ID: 670-29236-7

Date Collected: 10/23/23 12:05
Matrix: Water
Date Received: 10/25/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/29/23 18:11	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/29/23 18:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/29/23 18:11	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/29/23 18:11	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/29/23 18:11	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/29/23 18:11	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/29/23 18:11	1
1,2-Dibromo-3-Chloropropane	1.8	U J3	5.0	1.8	ug/L			10/29/23 18:11	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/29/23 18:11	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/29/23 18:11	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/29/23 18:11	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/29/23 18:11	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/29/23 18:11	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/29/23 18:11	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/29/23 18:11	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/29/23 18:11	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/29/23 18:11	1
Acetone	3.7	U	10	3.7	ug/L			10/29/23 18:11	1
Benzene	0.27	U	1.0	0.27	ug/L			10/29/23 18:11	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/29/23 18:11	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/29/23 18:11	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/29/23 18:11	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/29/23 18:11	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/29/23 18:11	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/29/23 18:11	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/29/23 18:11	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/29/23 18:11	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/29/23 18:11	1

Client Sample ID: LC34-DPT0962-043.0-20231023
Lab Sample ID: 670-29236-7

Date Collected: 10/23/23 12:05
Matrix: Water
Date Received: 10/25/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**2.9**		1.0	0.25	ug/L			10/29/23 18:11	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/29/23 18:11	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/29/23 18:11	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/29/23 18:11	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/29/23 18:11	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/29/23 18:11	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/29/23 18:11	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/29/23 18:11	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/29/23 18:11	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/29/23 18:11	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/29/23 18:11	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/29/23 18:11	1
Styrene	0.27	U	1.0	0.27	ug/L			10/29/23 18:11	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/29/23 18:11	1
Toluene	0.25	U	1.0	0.25	ug/L			10/29/23 18:11	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/29/23 18:11	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/29/23 18:11	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/29/23 18:11	1
Trichlorofluoromethane	0.33	U J3	1.0	0.33	ug/L			10/29/23 18:11	1
Vinyl chloride	**52**		1.0	0.40	ug/L			10/29/23 18:11	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/29/23 18:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 124*		*10/29/23 18:11*	*1*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*		*10/29/23 18:11*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*10/29/23 18:11*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*10/29/23 18:11*	*1*

Client Sample ID: LC34-DPT0962-038.0-20231023
Lab Sample ID: 670-29236-8

Date Collected: 10/23/23 12:25
Matrix: Water
Date Received: 10/25/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	5.0	1.1	ug/L			10/29/23 18:51	5
1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	ug/L			10/29/23 18:51	5
1,1,2-Trichloro-1,2,2-trifluoroethane	1.2	U	5.0	1.2	ug/L			10/29/23 18:51	5
1,1,2-Trichloroethane	1.6	U	5.0	1.6	ug/L			10/29/23 18:51	5
1,1-Dichloroethane	1.7	U	5.0	1.7	ug/L			10/29/23 18:51	5
1,1-Dichloroethene	1.7	U	5.0	1.7	ug/L			10/29/23 18:51	5
1,2,4-Trichlorobenzene	2.7	U	25	2.7	ug/L			10/29/23 18:51	5
1,2-Dibromo-3-Chloropropane	9.0	U J3	25	9.0	ug/L			10/29/23 18:51	5
1,2-Dibromoethane (EDB)	1.7	U	5.0	1.7	ug/L			10/29/23 18:51	5
1,2-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/29/23 18:51	5
1,2-Dichloroethane	1.3	U	5.0	1.3	ug/L			10/29/23 18:51	5
1,2-Dichloropropane	1.1	U	5.0	1.1	ug/L			10/29/23 18:51	5
1,3-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/29/23 18:51	5
1,4-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/29/23 18:51	5
2-Butanone (MEK)	32	U	50	32	ug/L			10/29/23 18:51	5
2-Hexanone	16	U	50	16	ug/L			10/29/23 18:51	5

Client Sample ID: LC34-DPT0962-038.0-20231023
Lab Sample ID: 670-29236-8

Date Collected: 10/23/23 12:25
Matrix: Water
Date Received: 10/25/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone	14	U	50	14	ug/L			10/29/23 18:51	5
Acetone	19	U	50	19	ug/L			10/29/23 18:51	5
Benzene	1.4	U	5.0	1.4	ug/L			10/29/23 18:51	5
Bromodichloromethane	1.3	U	5.0	1.3	ug/L			10/29/23 18:51	5
Bromoform	3.0	U	5.0	3.0	ug/L			10/29/23 18:51	5
Bromomethane	19	U	25	19	ug/L			10/29/23 18:51	5
Carbon disulfide	2.2	U	10	2.2	ug/L			10/29/23 18:51	5
Carbon tetrachloride	1.5	U	5.0	1.5	ug/L			10/29/23 18:51	5
Chlorobenzene	0.75	U	5.0	0.75	ug/L			10/29/23 18:51	5
Chloroethane	23	U	25	23	ug/L			10/29/23 18:51	5
Chloroform	1.4	U	5.0	1.4	ug/L			10/29/23 18:51	5
Chloromethane	2.7	U	5.0	2.7	ug/L			10/29/23 18:51	5
cis-1,2-Dichloroethene	**76**		5.0	1.3	ug/L			10/29/23 18:51	5
cis-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			10/29/23 18:51	5
Cyclohexane	1.4	U	5.0	1.4	ug/L			10/29/23 18:51	5
Dibromochloromethane	2.0	U	5.0	2.0	ug/L			10/29/23 18:51	5
Dichlorodifluoromethane	1.8	U	5.0	1.8	ug/L			10/29/23 18:51	5
Ethylbenzene	1.0	U	5.0	1.0	ug/L			10/29/23 18:51	5
Isopropylbenzene	1.3	U	5.0	1.3	ug/L			10/29/23 18:51	5
m,p-Xylenes	2.5	U	5.0	2.5	ug/L			10/29/23 18:51	5
Methyl acetate	16	U	25	16	ug/L			10/29/23 18:51	5
Methyl tert-butyl ether	4.1	U	25	4.1	ug/L			10/29/23 18:51	5
Methylene Chloride	16	U	25	16	ug/L			10/29/23 18:51	5
o-Xylene	1.3	U	5.0	1.3	ug/L			10/29/23 18:51	5
Styrene	1.4	U	5.0	1.4	ug/L			10/29/23 18:51	5
Tetrachloroethene	1.8	U	5.0	1.8	ug/L			10/29/23 18:51	5
Toluene	1.3	U	5.0	1.3	ug/L			10/29/23 18:51	5
trans-1,2-Dichloroethene	1.7	U	5.0	1.7	ug/L			10/29/23 18:51	5
trans-1,3-Dichloropropene	1.2	U	5.0	1.2	ug/L			10/29/23 18:51	5
Trichloroethene	1.0	U	5.0	1.0	ug/L			10/29/23 18:51	5
Trichlorofluoromethane	1.7	U J3	5.0	1.7	ug/L			10/29/23 18:51	5
Vinyl chloride	**350**		5.0	2.0	ug/L			10/29/23 18:51	5
Xylenes, Total	1.2	U	5.0	1.2	ug/L			10/29/23 18:51	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 124*		*10/29/23 18:51*	*5*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*10/29/23 18:51*	*5*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*10/29/23 18:51*	*5*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/29/23 18:51*	*5*

Client Sample ID: LC34-DPT0961-043.0-20231023
Lab Sample ID: 670-29236-9

Date Collected: 10/23/23 13:05
Matrix: Water
Date Received: 10/25/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/29/23 18:30	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/29/23 18:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/29/23 18:30	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/29/23 18:30	1

Client Sample ID: LC34-DPT0961-043.0-20231023
Lab Sample ID: 670-29236-9
Date Collected: 10/23/23 13:05
Matrix: Water
Date Received: 10/25/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/29/23 18:30	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/29/23 18:30	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/29/23 18:30	1
1,2-Dibromo-3-Chloropropane	1.8	U J3	5.0	1.8	ug/L			10/29/23 18:30	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/29/23 18:30	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/29/23 18:30	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/29/23 18:30	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/29/23 18:30	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/29/23 18:30	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/29/23 18:30	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/29/23 18:30	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/29/23 18:30	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/29/23 18:30	1
Acetone	3.7	U	10	3.7	ug/L			10/29/23 18:30	1
Benzene	0.27	U	1.0	0.27	ug/L			10/29/23 18:30	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/29/23 18:30	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/29/23 18:30	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/29/23 18:30	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/29/23 18:30	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/29/23 18:30	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/29/23 18:30	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/29/23 18:30	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/29/23 18:30	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/29/23 18:30	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/29/23 18:30	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/29/23 18:30	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/29/23 18:30	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/29/23 18:30	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/29/23 18:30	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/29/23 18:30	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/29/23 18:30	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/29/23 18:30	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/29/23 18:30	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/29/23 18:30	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/29/23 18:30	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/29/23 18:30	1
Styrene	0.27	U	1.0	0.27	ug/L			10/29/23 18:30	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/29/23 18:30	1
Toluene	0.25	U	1.0	0.25	ug/L			10/29/23 18:30	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/29/23 18:30	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/29/23 18:30	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/29/23 18:30	1
Trichlorofluoromethane	0.33	U J3	1.0	0.33	ug/L			10/29/23 18:30	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/29/23 18:30	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/29/23 18:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 124*		*10/29/23 18:30*	*1*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*10/29/23 18:30*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*10/29/23 18:30*	*1*

Client Sample ID: LC34-DPT0961-043.0-20231023
Lab Sample ID: 670-29236-9

Date Collected: 10/23/23 13:05
Matrix: Water
Date Received: 10/25/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		70 - 130		10/29/23 18:30	1

Client Sample ID: LC34-DPT0961-038.0-20231023
Lab Sample ID: 670-29236-10

Date Collected: 10/23/23 13:20
Matrix: Water
Date Received: 10/25/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	5.0	1.1	ug/L			10/29/23 19:12	5
1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	ug/L			10/29/23 19:12	5
1,1,2-Trichloro-1,2,2-trifluoroethane	1.2	U	5.0	1.2	ug/L			10/29/23 19:12	5
1,1,2-Trichloroethane	1.6	U	5.0	1.6	ug/L			10/29/23 19:12	5
1,1-Dichloroethane	1.7	U	5.0	1.7	ug/L			10/29/23 19:12	5
1,1-Dichloroethene	1.7	U	5.0	1.7	ug/L			10/29/23 19:12	5
1,2,4-Trichlorobenzene	2.7	U	25	2.7	ug/L			10/29/23 19:12	5
1,2-Dibromo-3-Chloropropane	9.0	U J3	25	9.0	ug/L			10/29/23 19:12	5
1,2-Dibromoethane (EDB)	1.7	U	5.0	1.7	ug/L			10/29/23 19:12	5
1,2-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/29/23 19:12	5
1,2-Dichloroethane	1.3	U	5.0	1.3	ug/L			10/29/23 19:12	5
1,2-Dichloropropane	1.1	U	5.0	1.1	ug/L			10/29/23 19:12	5
1,3-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/29/23 19:12	5
1,4-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/29/23 19:12	5
2-Butanone (MEK)	32	U	50	32	ug/L			10/29/23 19:12	5
2-Hexanone	16	U	50	16	ug/L			10/29/23 19:12	5
4-Methyl-2-pentanone	14	U	50	14	ug/L			10/29/23 19:12	5
Acetone	19	U	50	19	ug/L			10/29/23 19:12	5
Benzene	1.4	U	5.0	1.4	ug/L			10/29/23 19:12	5
Bromodichloromethane	1.3	U	5.0	1.3	ug/L			10/29/23 19:12	5
Bromoform	3.0	U	5.0	3.0	ug/L			10/29/23 19:12	5
Bromomethane	19	U	25	19	ug/L			10/29/23 19:12	5
Carbon disulfide	2.2	U	10	2.2	ug/L			10/29/23 19:12	5
Carbon tetrachloride	1.5	U	5.0	1.5	ug/L			10/29/23 19:12	5
Chlorobenzene	0.75	U	5.0	0.75	ug/L			10/29/23 19:12	5
Chloroethane	23	U	25	23	ug/L			10/29/23 19:12	5
Chloroform	1.4	U	5.0	1.4	ug/L			10/29/23 19:12	5
Chloromethane	2.7	U	5.0	2.7	ug/L			10/29/23 19:12	5
cis-1,2-Dichloroethene	**600**		5.0	1.3	ug/L			10/29/23 19:12	5
cis-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			10/29/23 19:12	5
Cyclohexane	1.4	U	5.0	1.4	ug/L			10/29/23 19:12	5
Dibromochloromethane	2.0	U	5.0	2.0	ug/L			10/29/23 19:12	5
Dichlorodifluoromethane	1.8	U	5.0	1.8	ug/L			10/29/23 19:12	5
Ethylbenzene	1.0	U	5.0	1.0	ug/L			10/29/23 19:12	5
Isopropylbenzene	1.3	U	5.0	1.3	ug/L			10/29/23 19:12	5
m,p-Xylenes	2.5	U	5.0	2.5	ug/L			10/29/23 19:12	5
Methyl acetate	16	U	25	16	ug/L			10/29/23 19:12	5
Methyl tert-butyl ether	4.1	U	25	4.1	ug/L			10/29/23 19:12	5
Methylene Chloride	16	U	25	16	ug/L			10/29/23 19:12	5
o-Xylene	1.3	U	5.0	1.3	ug/L			10/29/23 19:12	5
Styrene	1.4	U	5.0	1.4	ug/L			10/29/23 19:12	5

Client Sample ID: LC34-DPT0961-038.0-20231023
Lab Sample ID: 670-29236-10

Date Collected: 10/23/23 13:20
Matrix: Water
Date Received: 10/25/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1.8	U	5.0	1.8	ug/L			10/29/23 19:12	5
Toluene	1.3	U	5.0	1.3	ug/L			10/29/23 19:12	5
trans-1,2-Dichloroethene	1.7	U	5.0	1.7	ug/L			10/29/23 19:12	5
trans-1,3-Dichloropropene	1.2	U	5.0	1.2	ug/L			10/29/23 19:12	5
Trichloroethene	1.0	U	5.0	1.0	ug/L			10/29/23 19:12	5
Trichlorofluoromethane	1.7	U J3	5.0	1.7	ug/L			10/29/23 19:12	5
Vinyl chloride	**7.6**		5.0	2.0	ug/L			10/29/23 19:12	5
Xylenes, Total	1.2	U	5.0	1.2	ug/L			10/29/23 19:12	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 124*		*10/29/23 19:12*	*5*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*		*10/29/23 19:12*	*5*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*10/29/23 19:12*	*5*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/29/23 19:12*	*5*

Client Sample ID: LC34-DPT0960-043.0-20231023
Lab Sample ID: 670-29236-11

Date Collected: 10/23/23 14:05
Matrix: Water
Date Received: 10/25/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/30/23 15:57	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/30/23 15:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/30/23 15:57	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/30/23 15:57	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/30/23 15:57	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/30/23 15:57	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/30/23 15:57	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/30/23 15:57	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/30/23 15:57	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/30/23 15:57	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/30/23 15:57	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/30/23 15:57	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/30/23 15:57	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/30/23 15:57	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/30/23 15:57	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/30/23 15:57	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/30/23 15:57	1
Acetone	3.7	U	10	3.7	ug/L			10/30/23 15:57	1
Benzene	0.27	U	1.0	0.27	ug/L			10/30/23 15:57	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/30/23 15:57	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/30/23 15:57	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/30/23 15:57	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/30/23 15:57	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/30/23 15:57	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/30/23 15:57	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/30/23 15:57	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/30/23 15:57	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/30/23 15:57	1
cis-1,2-Dichloroethene	**36**		1.0	0.25	ug/L			10/30/23 15:57	1

Client Sample ID: LC34-DPT0960-043.0-20231023
Lab Sample ID: 670-29236-11

Date Collected: 10/23/23 14:05
Matrix: Water
Date Received: 10/25/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/30/23 15:57	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/30/23 15:57	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/30/23 15:57	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/30/23 15:57	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/30/23 15:57	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/30/23 15:57	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/30/23 15:57	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/30/23 15:57	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/30/23 15:57	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/30/23 15:57	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/30/23 15:57	1
Styrene	0.27	U	1.0	0.27	ug/L			10/30/23 15:57	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/30/23 15:57	1
Toluene	0.25	U	1.0	0.25	ug/L			10/30/23 15:57	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/30/23 15:57	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/30/23 15:57	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/30/23 15:57	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/30/23 15:57	1
Vinyl chloride	**39**		1.0	0.40	ug/L			10/30/23 15:57	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/30/23 15:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*60 - 124*		*10/30/23 15:57*	*1*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*		*10/30/23 15:57*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*10/30/23 15:57*	*1*
Toluene-d8 (Surr)	*112*		*70 - 130*		*10/30/23 15:57*	*1*

Client Sample ID: LC34-DPT0960-038.0-20231023
Lab Sample ID: 670-29236-12

Date Collected: 10/23/23 14:20
Matrix: Water
Date Received: 10/25/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.3	U	25	5.3	ug/L			10/30/23 18:09	25
1,1,2,2-Tetrachloroethane	10	U *	25	10	ug/L			10/30/23 18:09	25
1,1,2-Trichloro-1,2,2-trifluoroethane	5.8	U	25	5.8	ug/L			10/30/23 18:09	25
1,1,2-Trichloroethane	8.0	U	25	8.0	ug/L			10/30/23 18:09	25
1,1-Dichloroethane	8.3	U	25	8.3	ug/L			10/30/23 18:09	25
1,1-Dichloroethene	8.3	U	25	8.3	ug/L			10/30/23 18:09	25
1,2,4-Trichlorobenzene	13	U *	130	13	ug/L			10/30/23 18:09	25
1,2-Dibromo-3-Chloropropane	45	U *	130	45	ug/L			10/30/23 18:09	25
1,2-Dibromoethane (EDB)	8.3	U	25	8.3	ug/L			10/30/23 18:09	25
1,2-Dichlorobenzene	7.8	U *	25	7.8	ug/L			10/30/23 18:09	25
1,2-Dichloroethane	6.3	U	25	6.3	ug/L			10/30/23 18:09	25
1,2-Dichloropropane	5.5	U	25	5.5	ug/L			10/30/23 18:09	25
1,3-Dichlorobenzene	7.8	U *	25	7.8	ug/L			10/30/23 18:09	25
1,4-Dichlorobenzene	7.8	U *	25	7.8	ug/L			10/30/23 18:09	25
2-Butanone (MEK)	160	U	250	160	ug/L			10/30/23 18:09	25
2-Hexanone	80	U	250	80	ug/L			10/30/23 18:09	25
4-Methyl-2-pentanone	68	U	250	68	ug/L			10/30/23 18:09	25

Client Sample ID: LC34-DPT0960-038.0-20231023
Lab Sample ID: 670-29236-12

Date Collected: 10/23/23 14:20
Matrix: Water
Date Received: 10/25/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	93	U	250	93	ug/L			10/30/23 18:09	25
Benzene	6.8	U	25	6.8	ug/L			10/30/23 18:09	25
Bromodichloromethane	6.3	U	25	6.3	ug/L			10/30/23 18:09	25
Bromoform	15	U	25	15	ug/L			10/30/23 18:09	25
Bromomethane	93	U	130	93	ug/L			10/30/23 18:09	25
Carbon disulfide	11	U	50	11	ug/L			10/30/23 18:09	25
Carbon tetrachloride	7.5	U	25	7.5	ug/L			10/30/23 18:09	25
Chlorobenzene	3.8	U	25	3.8	ug/L			10/30/23 18:09	25
Chloroethane	120	U	130	120	ug/L			10/30/23 18:09	25
Chloroform	6.8	U	25	6.8	ug/L			10/30/23 18:09	25
Chloromethane	14	U	25	14	ug/L			10/30/23 18:09	25
cis-1,2-Dichloroethene	6.3	U	25	6.3	ug/L			10/30/23 18:09	25
cis-1,3-Dichloropropene	6.5	U	25	6.5	ug/L			10/30/23 18:09	25
Cyclohexane	7.0	U	25	7.0	ug/L			10/30/23 18:09	25
Dibromochloromethane	9.8	U	25	9.8	ug/L			10/30/23 18:09	25
Dichlorodifluoromethane	9.0	U	25	9.0	ug/L			10/30/23 18:09	25
Ethylbenzene	5.0	U	25	5.0	ug/L			10/30/23 18:09	25
Isopropylbenzene	6.5	U	25	6.5	ug/L			10/30/23 18:09	25
m,p-Xylenes	12	U	25	12	ug/L			10/30/23 18:09	25
Methyl acetate	80	U	130	80	ug/L			10/30/23 18:09	25
Methyl tert-butyl ether	20	U	130	20	ug/L			10/30/23 18:09	25
Methylene Chloride	80	U	130	80	ug/L			10/30/23 18:09	25
o-Xylene	6.5	U	25	6.5	ug/L			10/30/23 18:09	25
Styrene	6.8	U	25	6.8	ug/L			10/30/23 18:09	25
Tetrachloroethene	8.8	U	25	8.8	ug/L			10/30/23 18:09	25
Toluene	6.3	U	25	6.3	ug/L			10/30/23 18:09	25
trans-1,2-Dichloroethene	8.5	U	25	8.5	ug/L			10/30/23 18:09	25
trans-1,3-Dichloropropene	5.8	U	25	5.8	ug/L			10/30/23 18:09	25
Trichloroethene	5.0	U	25	5.0	ug/L			10/30/23 18:09	25
Trichlorofluoromethane	8.3	U	25	8.3	ug/L			10/30/23 18:09	25
Vinyl chloride	**2300**		25	10	ug/L			10/30/23 18:09	25
Xylenes, Total	5.8	U	25	5.8	ug/L			10/30/23 18:09	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*60 - 124*		*10/30/23 18:09*	*25*
4-Bromofluorobenzene (Surr)	*98*	*	*70 - 130*		*10/30/23 18:09*	*25*
Dibromofluoromethane (Surr)	*120*		*70 - 130*		*10/30/23 18:09*	*25*
Toluene-d8 (Surr)	*98*		*70 - 130*		*10/30/23 18:09*	*25*

Client Sample ID: LC34-DPT0959-043.0-20231023
Lab Sample ID: 670-29236-13

Date Collected: 10/23/23 15:00
Matrix: Water
Date Received: 10/25/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/30/23 17:50	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/30/23 17:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/30/23 17:50	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/30/23 17:50	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/30/23 17:50	1

Client: Tetra Tech, Inc.
Job ID: 670-29236-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT0959-043.0-20231023
Lab Sample ID: 670-29236-13
Date Collected: 10/23/23 15:00
Matrix: Water
Date Received: 10/25/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/30/23 17:50	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/30/23 17:50	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/30/23 17:50	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/30/23 17:50	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/30/23 17:50	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/30/23 17:50	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/30/23 17:50	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/30/23 17:50	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/30/23 17:50	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/30/23 17:50	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/30/23 17:50	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/30/23 17:50	1
Acetone	3.7	U	10	3.7	ug/L			10/30/23 17:50	1
Benzene	0.27	U	1.0	0.27	ug/L			10/30/23 17:50	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/30/23 17:50	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/30/23 17:50	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/30/23 17:50	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/30/23 17:50	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/30/23 17:50	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/30/23 17:50	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/30/23 17:50	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/30/23 17:50	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/30/23 17:50	1
cis-1,2-Dichloroethene	**7.7**		1.0	0.25	ug/L			10/30/23 17:50	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/30/23 17:50	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/30/23 17:50	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/30/23 17:50	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/30/23 17:50	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/30/23 17:50	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/30/23 17:50	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/30/23 17:50	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/30/23 17:50	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/30/23 17:50	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/30/23 17:50	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/30/23 17:50	1
Styrene	0.27	U	1.0	0.27	ug/L			10/30/23 17:50	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/30/23 17:50	1
Toluene	0.25	U	1.0	0.25	ug/L			10/30/23 17:50	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/30/23 17:50	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/30/23 17:50	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/30/23 17:50	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/30/23 17:50	1
Vinyl chloride	**0.40**	**I**	1.0	0.40	ug/L			10/30/23 17:50	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/30/23 17:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*83*		*60 - 124*		*10/30/23 17:50*	*1*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*10/30/23 17:50*	*1*
Dibromofluoromethane (Surr)	*90*		*70 - 130*		*10/30/23 17:50*	*1*
Toluene-d8 (Surr)	*109*		*70 - 130*		*10/30/23 17:50*	*1*

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-29236-1

Client Sample ID: LC34-DPT0959-038.0-20231023
Date Collected: 10/23/23 15:15
Date Received: 10/25/23 08:00

Lab Sample ID: 670-29236-14
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2.1	U	10	2.1	ug/L			10/30/23 18:28	10
1,1,2,2-Tetrachloroethane	4.0	U	10	4.0	ug/L			10/30/23 18:28	10
1,1,2-Trichloro-1,2,2-trifluoroethane	2.3	U	10	2.3	ug/L			10/30/23 18:28	10
1,1,2-Trichloroethane	3.2	U	10	3.2	ug/L			10/30/23 18:28	10
1,1-Dichloroethane	3.3	U	10	3.3	ug/L			10/30/23 18:28	10
1,1-Dichloroethene	3.3	U	10	3.3	ug/L			10/30/23 18:28	10
1,2,4-Trichlorobenzene	5.3	U	50	5.3	ug/L			10/30/23 18:28	10
1,2-Dibromo-3-Chloropropane	18	U	50	18	ug/L			10/30/23 18:28	10
1,2-Dibromoethane (EDB)	3.3	U	10	3.3	ug/L			10/30/23 18:28	10
1,2-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/30/23 18:28	10
1,2-Dichloroethane	2.5	U	10	2.5	ug/L			10/30/23 18:28	10
1,2-Dichloropropane	2.2	U	10	2.2	ug/L			10/30/23 18:28	10
1,3-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/30/23 18:28	10
1,4-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/30/23 18:28	10
2-Butanone (MEK)	64	U	100	64	ug/L			10/30/23 18:28	10
2-Hexanone	32	U	100	32	ug/L			10/30/23 18:28	10
4-Methyl-2-pentanone	27	U	100	27	ug/L			10/30/23 18:28	10
Acetone	37	U	100	37	ug/L			10/30/23 18:28	10
Benzene	2.7	U	10	2.7	ug/L			10/30/23 18:28	10
Bromodichloromethane	2.5	U	10	2.5	ug/L			10/30/23 18:28	10
Bromoform	5.9	U	10	5.9	ug/L			10/30/23 18:28	10
Bromomethane	37	U	50	37	ug/L			10/30/23 18:28	10
Carbon disulfide	4.3	U	20	4.3	ug/L			10/30/23 18:28	10
Carbon tetrachloride	3.0	U	10	3.0	ug/L			10/30/23 18:28	10
Chlorobenzene	1.5	U	10	1.5	ug/L			10/30/23 18:28	10
Chloroethane	46	U	50	46	ug/L			10/30/23 18:28	10
Chloroform	2.7	U	10	2.7	ug/L			10/30/23 18:28	10
Chloromethane	5.4	U	10	5.4	ug/L			10/30/23 18:28	10
cis-1,2-Dichloroethene	**1200**		10	2.5	ug/L			10/30/23 18:28	10
cis-1,3-Dichloropropene	2.6	U	10	2.6	ug/L			10/30/23 18:28	10
Cyclohexane	2.8	U	10	2.8	ug/L			10/30/23 18:28	10
Dibromochloromethane	3.9	U	10	3.9	ug/L			10/30/23 18:28	10
Dichlorodifluoromethane	3.6	U	10	3.6	ug/L			10/30/23 18:28	10
Ethylbenzene	2.0	U	10	2.0	ug/L			10/30/23 18:28	10
Isopropylbenzene	2.6	U	10	2.6	ug/L			10/30/23 18:28	10
m,p-Xylenes	4.9	U	10	4.9	ug/L			10/30/23 18:28	10
Methyl acetate	32	U	50	32	ug/L			10/30/23 18:28	10
Methyl tert-butyl ether	8.1	U	50	8.1	ug/L			10/30/23 18:28	10
Methylene Chloride	32	U	50	32	ug/L			10/30/23 18:28	10
o-Xylene	2.6	U	10	2.6	ug/L			10/30/23 18:28	10
Styrene	2.7	U	10	2.7	ug/L			10/30/23 18:28	10
Tetrachloroethene	3.5	U	10	3.5	ug/L			10/30/23 18:28	10
Toluene	2.5	U	10	2.5	ug/L			10/30/23 18:28	10
trans-1,2-Dichloroethene	3.4	U	10	3.4	ug/L			10/30/23 18:28	10
trans-1,3-Dichloropropene	2.3	U	10	2.3	ug/L			10/30/23 18:28	10
Trichloroethene	2.0	U	10	2.0	ug/L			10/30/23 18:28	10
Trichlorofluoromethane	3.3	U	10	3.3	ug/L			10/30/23 18:28	10
Vinyl chloride	**200**		10	4.0	ug/L			10/30/23 18:28	10
Xylenes, Total	2.3	U	10	2.3	ug/L			10/30/23 18:28	10

Client Sample ID: LC34-DPT0959-038.0-20231023
Lab Sample ID: 670-29236-14

Date Collected: 10/23/23 15:15
Matrix: Water
Date Received: 10/25/23 08:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*60 - 124*		*10/30/23 18:28*	*10*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*		*10/30/23 18:28*	*10*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*10/30/23 18:28*	*10*
Toluene-d8 (Surr)	*111*		*70 - 130*		*10/30/23 18:28*	*10*

Client Sample ID: LC34-DPT0958-043.0-20231023
Lab Sample ID: 670-29236-15

Date Collected: 10/23/23 15:55
Matrix: Water
Date Received: 10/25/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.42	U	2.0	0.42	ug/L			10/30/23 18:47	2
1,1,2,2-Tetrachloroethane	0.80	U	2.0	0.80	ug/L			10/30/23 18:47	2
1,1,2-Trichloro-1,2,2-trifluoroethane	0.46	U	2.0	0.46	ug/L			10/30/23 18:47	2
1,1,2-Trichloroethane	0.64	U	2.0	0.64	ug/L			10/30/23 18:47	2
1,1-Dichloroethane	0.66	U	2.0	0.66	ug/L			10/30/23 18:47	2
1,1-Dichloroethene	0.66	U	2.0	0.66	ug/L			10/30/23 18:47	2
1,2,4-Trichlorobenzene	1.1	U	10	1.1	ug/L			10/30/23 18:47	2
1,2-Dibromo-3-Chloropropane	3.6	U	10	3.6	ug/L			10/30/23 18:47	2
1,2-Dibromoethane (EDB)	0.66	U	2.0	0.66	ug/L			10/30/23 18:47	2
1,2-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/30/23 18:47	2
1,2-Dichloroethane	0.50	U	2.0	0.50	ug/L			10/30/23 18:47	2
1,2-Dichloropropane	0.44	U	2.0	0.44	ug/L			10/30/23 18:47	2
1,3-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/30/23 18:47	2
1,4-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/30/23 18:47	2
2-Butanone (MEK)	13	U	20	13	ug/L			10/30/23 18:47	2
2-Hexanone	6.4	U	20	6.4	ug/L			10/30/23 18:47	2
4-Methyl-2-pentanone	5.4	U	20	5.4	ug/L			10/30/23 18:47	2
Acetone	7.4	U	20	7.4	ug/L			10/30/23 18:47	2
Benzene	0.54	U	2.0	0.54	ug/L			10/30/23 18:47	2
Bromodichloromethane	0.50	U	2.0	0.50	ug/L			10/30/23 18:47	2
Bromoform	1.2	U	2.0	1.2	ug/L			10/30/23 18:47	2
Bromomethane	7.4	U	10	7.4	ug/L			10/30/23 18:47	2
Carbon disulfide	0.86	U	4.0	0.86	ug/L			10/30/23 18:47	2
Carbon tetrachloride	0.60	U	2.0	0.60	ug/L			10/30/23 18:47	2
Chlorobenzene	0.30	U	2.0	0.30	ug/L			10/30/23 18:47	2
Chloroethane	9.2	U	10	9.2	ug/L			10/30/23 18:47	2
Chloroform	0.54	U	2.0	0.54	ug/L			10/30/23 18:47	2
Chloromethane	1.1	U	2.0	1.1	ug/L			10/30/23 18:47	2
cis-1,2-Dichloroethene	**44**		2.0	0.50	ug/L			10/30/23 18:47	2
cis-1,3-Dichloropropene	0.52	U	2.0	0.52	ug/L			10/30/23 18:47	2
Cyclohexane	0.56	U	2.0	0.56	ug/L			10/30/23 18:47	2
Dibromochloromethane	0.78	U	2.0	0.78	ug/L			10/30/23 18:47	2
Dichlorodifluoromethane	0.72	U	2.0	0.72	ug/L			10/30/23 18:47	2
Ethylbenzene	0.40	U	2.0	0.40	ug/L			10/30/23 18:47	2
Isopropylbenzene	0.52	U	2.0	0.52	ug/L			10/30/23 18:47	2
m,p-Xylenes	0.98	U	2.0	0.98	ug/L			10/30/23 18:47	2
Methyl acetate	6.4	U	10	6.4	ug/L			10/30/23 18:47	2
Methyl tert-butyl ether	1.6	U	10	1.6	ug/L			10/30/23 18:47	2
Methylene Chloride	6.4	U	10	6.4	ug/L			10/30/23 18:47	2

Client Sample ID: LC34-DPT0958-043.0-20231023
Lab Sample ID: 670-29236-15

Date Collected: 10/23/23 15:55
Matrix: Water
Date Received: 10/25/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	0.52	U	2.0	0.52	ug/L			10/30/23 18:47	2
Styrene	0.54	U	2.0	0.54	ug/L			10/30/23 18:47	2
Tetrachloroethene	0.70	U	2.0	0.70	ug/L			10/30/23 18:47	2
Toluene	0.50	U	2.0	0.50	ug/L			10/30/23 18:47	2
trans-1,2-Dichloroethene	0.68	U	2.0	0.68	ug/L			10/30/23 18:47	2
trans-1,3-Dichloropropene	0.46	U	2.0	0.46	ug/L			10/30/23 18:47	2
Trichloroethene	0.40	U	2.0	0.40	ug/L			10/30/23 18:47	2
Trichlorofluoromethane	0.66	U	2.0	0.66	ug/L			10/30/23 18:47	2
Vinyl chloride	**120**		2.0	0.80	ug/L			10/30/23 18:47	2
Xylenes, Total	0.46	U	2.0	0.46	ug/L			10/30/23 18:47	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*60 - 124*		*10/30/23 18:47*	*2*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*10/30/23 18:47*	*2*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*10/30/23 18:47*	*2*
Toluene-d8 (Surr)	*108*		*70 - 130*		*10/30/23 18:47*	*2*

Client Sample ID: LC34-DPT0958-038.0-20231023
Lab Sample ID: 670-29236-16

Date Collected: 10/23/23 16:10
Matrix: Water
Date Received: 10/25/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2.1	U	10	2.1	ug/L			10/30/23 17:13	10
1,1,2,2-Tetrachloroethane	4.0	U	10	4.0	ug/L			10/30/23 17:13	10
1,1,2-Trichloro-1,2,2-trifluoroethane	2.3	U	10	2.3	ug/L			10/30/23 17:13	10
1,1,2-Trichloroethane	3.2	U	10	3.2	ug/L			10/30/23 17:13	10
1,1-Dichloroethane	3.3	U	10	3.3	ug/L			10/30/23 17:13	10
1,1-Dichloroethene	3.3	U	10	3.3	ug/L			10/30/23 17:13	10
1,2,4-Trichlorobenzene	5.3	U	50	5.3	ug/L			10/30/23 17:13	10
1,2-Dibromo-3-Chloropropane	18	U	50	18	ug/L			10/30/23 17:13	10
1,2-Dibromoethane (EDB)	3.3	U	10	3.3	ug/L			10/30/23 17:13	10
1,2-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/30/23 17:13	10
1,2-Dichloroethane	2.5	U	10	2.5	ug/L			10/30/23 17:13	10
1,2-Dichloropropane	2.2	U	10	2.2	ug/L			10/30/23 17:13	10
1,3-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/30/23 17:13	10
1,4-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/30/23 17:13	10
2-Butanone (MEK)	64	U	100	64	ug/L			10/30/23 17:13	10
2-Hexanone	32	U	100	32	ug/L			10/30/23 17:13	10
4-Methyl-2-pentanone	27	U	100	27	ug/L			10/30/23 17:13	10
Acetone	37	U	100	37	ug/L			10/30/23 17:13	10
Benzene	2.7	U	10	2.7	ug/L			10/30/23 17:13	10
Bromodichloromethane	2.5	U	10	2.5	ug/L			10/30/23 17:13	10
Bromoform	5.9	U	10	5.9	ug/L			10/30/23 17:13	10
Bromomethane	37	U	50	37	ug/L			10/30/23 17:13	10
Carbon disulfide	4.3	U	20	4.3	ug/L			10/30/23 17:13	10
Carbon tetrachloride	3.0	U	10	3.0	ug/L			10/30/23 17:13	10
Chlorobenzene	1.5	U	10	1.5	ug/L			10/30/23 17:13	10
Chloroethane	46	U	50	46	ug/L			10/30/23 17:13	10
Chloroform	2.7	U	10	2.7	ug/L			10/30/23 17:13	10

Client Sample ID: LC34-DPT0958-038.0-20231023
Lab Sample ID: 670-29236-16
Date Collected: 10/23/23 16:10
Matrix: Water
Date Received: 10/25/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	5.4	U	10	5.4	ug/L			10/30/23 17:13	10
cis-1,2-Dichloroethene	**43**		10	2.5	ug/L			10/30/23 17:13	10
cis-1,3-Dichloropropene	2.6	U	10	2.6	ug/L			10/30/23 17:13	10
Cyclohexane	2.8	U	10	2.8	ug/L			10/30/23 17:13	10
Dibromochloromethane	3.9	U	10	3.9	ug/L			10/30/23 17:13	10
Dichlorodifluoromethane	3.6	U	10	3.6	ug/L			10/30/23 17:13	10
Ethylbenzene	2.0	U	10	2.0	ug/L			10/30/23 17:13	10
Isopropylbenzene	2.6	U	10	2.6	ug/L			10/30/23 17:13	10
m,p-Xylenes	4.9	U	10	4.9	ug/L			10/30/23 17:13	10
Methyl acetate	32	U	50	32	ug/L			10/30/23 17:13	10
Methyl tert-butyl ether	8.1	U	50	8.1	ug/L			10/30/23 17:13	10
Methylene Chloride	32	U	50	32	ug/L			10/30/23 17:13	10
o-Xylene	2.6	U	10	2.6	ug/L			10/30/23 17:13	10
Styrene	2.7	U	10	2.7	ug/L			10/30/23 17:13	10
Tetrachloroethene	3.5	U	10	3.5	ug/L			10/30/23 17:13	10
Toluene	2.5	U	10	2.5	ug/L			10/30/23 17:13	10
trans-1,2-Dichloroethene	3.4	U	10	3.4	ug/L			10/30/23 17:13	10
trans-1,3-Dichloropropene	2.3	U	10	2.3	ug/L			10/30/23 17:13	10
Trichloroethene	2.0	U	10	2.0	ug/L			10/30/23 17:13	10
Trichlorofluoromethane	3.3	U	10	3.3	ug/L			10/30/23 17:13	10
Vinyl chloride	**1400**		10	4.0	ug/L			10/30/23 17:13	10
Xylenes, Total	2.3	U	10	2.3	ug/L			10/30/23 17:13	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*60 - 124*		*10/30/23 17:13*	*10*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*		*10/30/23 17:13*	*10*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*10/30/23 17:13*	*10*
Toluene-d8 (Surr)	*109*		*70 - 130*		*10/30/23 17:13*	*10*

Client Sample ID: LC34-DPT0963-043.0-20231024
Lab Sample ID: 670-29236-17
Date Collected: 10/24/23 07:55
Matrix: Water
Date Received: 10/25/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/30/23 19:25	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/30/23 19:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/30/23 19:25	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/30/23 19:25	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/30/23 19:25	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/30/23 19:25	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/30/23 19:25	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/30/23 19:25	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/30/23 19:25	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/30/23 19:25	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/30/23 19:25	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/30/23 19:25	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/30/23 19:25	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/30/23 19:25	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/30/23 19:25	1

Client Sample ID: LC34-DPT0963-043.0-20231024
Lab Sample ID: 670-29236-17

Date Collected: 10/24/23 07:55
Matrix: Water
Date Received: 10/25/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	3.2	U	10	3.2	ug/L			10/30/23 19:25	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/30/23 19:25	1
Acetone	3.7	U	10	3.7	ug/L			10/30/23 19:25	1
Benzene	0.27	U	1.0	0.27	ug/L			10/30/23 19:25	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/30/23 19:25	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/30/23 19:25	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/30/23 19:25	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/30/23 19:25	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/30/23 19:25	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/30/23 19:25	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/30/23 19:25	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/30/23 19:25	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/30/23 19:25	1
cis-1,2-Dichloroethene	**170**		1.0	0.25	ug/L			10/30/23 19:25	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/30/23 19:25	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/30/23 19:25	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/30/23 19:25	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/30/23 19:25	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/30/23 19:25	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/30/23 19:25	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/30/23 19:25	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/30/23 19:25	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/30/23 19:25	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/30/23 19:25	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/30/23 19:25	1
Styrene	0.27	U	1.0	0.27	ug/L			10/30/23 19:25	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/30/23 19:25	1
Toluene	0.25	U	1.0	0.25	ug/L			10/30/23 19:25	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/30/23 19:25	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/30/23 19:25	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/30/23 19:25	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/30/23 19:25	1
Vinyl chloride	**1.2**		1.0	0.40	ug/L			10/30/23 19:25	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/30/23 19:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*60 - 124*		*10/30/23 19:25*	*1*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*10/30/23 19:25*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*10/30/23 19:25*	*1*
Toluene-d8 (Surr)	*115*		*70 - 130*		*10/30/23 19:25*	*1*

Client Sample ID: LC34-DPT0963-038.0-20231024
Lab Sample ID: 670-29236-18

Date Collected: 10/24/23 08:10
Matrix: Water
Date Received: 10/25/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.3	U	25	5.3	ug/L			10/31/23 16:38	25
1,1,2,2-Tetrachloroethane	10	U	25	10	ug/L			10/31/23 16:38	25
1,1,2-Trichloro-1,2,2-trifluoroethane	5.8	U	25	5.8	ug/L			10/31/23 16:38	25

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-29236-1

Client Sample ID: LC34-DPT0963-038.0-20231024
Date Collected: 10/24/23 08:10
Date Received: 10/25/23 08:00

Lab Sample ID: 670-29236-18
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	8.0	U	25	8.0	ug/L			10/31/23 16:38	25
1,1-Dichloroethane	8.3	U	25	8.3	ug/L			10/31/23 16:38	25
1,1-Dichloroethene	8.3	U	25	8.3	ug/L			10/31/23 16:38	25
1,2,4-Trichlorobenzene	13	U	130	13	ug/L			10/31/23 16:38	25
1,2-Dibromo-3-Chloropropane	45	U	130	45	ug/L			10/31/23 16:38	25
1,2-Dibromoethane (EDB)	8.3	U	25	8.3	ug/L			10/31/23 16:38	25
1,2-Dichlorobenzene	7.8	U	25	7.8	ug/L			10/31/23 16:38	25
1,2-Dichloroethane	6.3	U	25	6.3	ug/L			10/31/23 16:38	25
1,2-Dichloropropane	5.5	U	25	5.5	ug/L			10/31/23 16:38	25
1,3-Dichlorobenzene	7.8	U	25	7.8	ug/L			10/31/23 16:38	25
1,4-Dichlorobenzene	7.8	U	25	7.8	ug/L			10/31/23 16:38	25
2-Butanone (MEK)	160	U J3	250	160	ug/L			10/31/23 16:38	25
2-Hexanone	80	U J3	250	80	ug/L			10/31/23 16:38	25
4-Methyl-2-pentanone	68	U J3	250	68	ug/L			10/31/23 16:38	25
Acetone	93	U J3	250	93	ug/L			10/31/23 16:38	25
Benzene	6.8	U	25	6.8	ug/L			10/31/23 16:38	25
Bromodichloromethane	6.3	U	25	6.3	ug/L			10/31/23 16:38	25
Bromoform	15	U J3	25	15	ug/L			10/31/23 16:38	25
Bromomethane	93	U	130	93	ug/L			10/31/23 16:38	25
Carbon disulfide	11	U	50	11	ug/L			10/31/23 16:38	25
Carbon tetrachloride	7.5	U	25	7.5	ug/L			10/31/23 16:38	25
Chlorobenzene	3.8	U	25	3.8	ug/L			10/31/23 16:38	25
Chloroethane	120	U	130	120	ug/L			10/31/23 16:38	25
Chloroform	6.8	U	25	6.8	ug/L			10/31/23 16:38	25
Chloromethane	14	U	25	14	ug/L			10/31/23 16:38	25
cis-1,2-Dichloroethene	**1700**		25	6.3	ug/L			10/31/23 16:38	25
cis-1,3-Dichloropropene	6.5	U	25	6.5	ug/L			10/31/23 16:38	25
Cyclohexane	7.0	U	25	7.0	ug/L			10/31/23 16:38	25
Dibromochloromethane	9.8	U	25	9.8	ug/L			10/31/23 16:38	25
Dichlorodifluoromethane	9.0	U	25	9.0	ug/L			10/31/23 16:38	25
Ethylbenzene	5.0	U	25	5.0	ug/L			10/31/23 16:38	25
Isopropylbenzene	6.5	U	25	6.5	ug/L			10/31/23 16:38	25
m,p-Xylenes	12	U	25	12	ug/L			10/31/23 16:38	25
Methyl acetate	80	U	130	80	ug/L			10/31/23 16:38	25
Methyl tert-butyl ether	20	U	130	20	ug/L			10/31/23 16:38	25
Methylene Chloride	80	U	130	80	ug/L			10/31/23 16:38	25
o-Xylene	6.5	U	25	6.5	ug/L			10/31/23 16:38	25
Styrene	6.8	U	25	6.8	ug/L			10/31/23 16:38	25
Tetrachloroethene	8.8	U	25	8.8	ug/L			10/31/23 16:38	25
Toluene	6.3	U	25	6.3	ug/L			10/31/23 16:38	25
trans-1,2-Dichloroethene	8.5	U	25	8.5	ug/L			10/31/23 16:38	25
trans-1,3-Dichloropropene	5.8	U	25	5.8	ug/L			10/31/23 16:38	25
Trichloroethene	5.0	U	25	5.0	ug/L			10/31/23 16:38	25
Trichlorofluoromethane	8.3	U	25	8.3	ug/L			10/31/23 16:38	25
Vinyl chloride	**930**		25	10	ug/L			10/31/23 16:38	25
Xylenes, Total	5.8	U	25	5.8	ug/L			10/31/23 16:38	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*87*		*60 - 124*		*10/31/23 16:38*	*25*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*10/31/23 16:38*	*25*

Client Sample ID: LC34-DPT0963-038.0-20231024
Lab Sample ID: 670-29236-18

Date Collected: 10/24/23 08:10
Matrix: Water
Date Received: 10/25/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*85*		*70 - 130*		*10/31/23 16:38*	*25*
Toluene-d8 (Surr)	*90*		*70 - 130*		*10/31/23 16:38*	*25*

Client Sample ID: LC34-DPT0965-043.0-20231024
Lab Sample ID: 670-29236-19

Date Collected: 10/24/23 08:55
Matrix: Water
Date Received: 10/25/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/30/23 19:44	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/30/23 19:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/30/23 19:44	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/30/23 19:44	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/30/23 19:44	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/30/23 19:44	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/30/23 19:44	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/30/23 19:44	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/30/23 19:44	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/30/23 19:44	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/30/23 19:44	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/30/23 19:44	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/30/23 19:44	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/30/23 19:44	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/30/23 19:44	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/30/23 19:44	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/30/23 19:44	1
Acetone	3.7	U	10	3.7	ug/L			10/30/23 19:44	1
Benzene	0.27	U	1.0	0.27	ug/L			10/30/23 19:44	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/30/23 19:44	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/30/23 19:44	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/30/23 19:44	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/30/23 19:44	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/30/23 19:44	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/30/23 19:44	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/30/23 19:44	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/30/23 19:44	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/30/23 19:44	1
cis-1,2-Dichloroethene	**190**		1.0	0.25	ug/L			10/30/23 19:44	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/30/23 19:44	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/30/23 19:44	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/30/23 19:44	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/30/23 19:44	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/30/23 19:44	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/30/23 19:44	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/30/23 19:44	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/30/23 19:44	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/30/23 19:44	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/30/23 19:44	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/30/23 19:44	1

Client Sample ID: LC34-DPT0965-043.0-20231024
Lab Sample ID: 670-29236-19

Date Collected: 10/24/23 08:55
Matrix: Water
Date Received: 10/25/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.27	U	1.0	0.27	ug/L			10/30/23 19:44	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/30/23 19:44	1
Toluene	0.25	U	1.0	0.25	ug/L			10/30/23 19:44	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/30/23 19:44	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/30/23 19:44	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/30/23 19:44	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/30/23 19:44	1
Vinyl chloride	**36**		1.0	0.40	ug/L			10/30/23 19:44	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/30/23 19:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*60 - 124*		*10/30/23 19:44*	*1*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*		*10/30/23 19:44*	*1*
Dibromofluoromethane (Surr)	*93*		*70 - 130*		*10/30/23 19:44*	*1*
Toluene-d8 (Surr)	*108*		*70 - 130*		*10/30/23 19:44*	*1*

Client Sample ID: LC34-DPT0965-038.0-20231024
Lab Sample ID: 670-29236-20

Date Collected: 10/24/23 09:10
Matrix: Water
Date Received: 10/25/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2.1	U	10	2.1	ug/L			10/31/23 17:01	10
1,1,2,2-Tetrachloroethane	4.0	U	10	4.0	ug/L			10/31/23 17:01	10
1,1,2-Trichloro-1,2,2-trifluoroethane	2.3	U	10	2.3	ug/L			10/31/23 17:01	10
1,1,2-Trichloroethane	3.2	U	10	3.2	ug/L			10/31/23 17:01	10
1,1-Dichloroethane	3.3	U	10	3.3	ug/L			10/31/23 17:01	10
1,1-Dichloroethene	3.3	U	10	3.3	ug/L			10/31/23 17:01	10
1,2,4-Trichlorobenzene	5.3	U	50	5.3	ug/L			10/31/23 17:01	10
1,2-Dibromo-3-Chloropropane	18	U	50	18	ug/L			10/31/23 17:01	10
1,2-Dibromoethane (EDB)	3.3	U	10	3.3	ug/L			10/31/23 17:01	10
1,2-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/31/23 17:01	10
1,2-Dichloroethane	2.5	U	10	2.5	ug/L			10/31/23 17:01	10
1,2-Dichloropropane	2.2	U	10	2.2	ug/L			10/31/23 17:01	10
1,3-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/31/23 17:01	10
1,4-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/31/23 17:01	10
2-Butanone (MEK)	64	U J3	100	64	ug/L			10/31/23 17:01	10
2-Hexanone	32	U J3	100	32	ug/L			10/31/23 17:01	10
4-Methyl-2-pentanone	27	U J3	100	27	ug/L			10/31/23 17:01	10
Acetone	37	U J3	100	37	ug/L			10/31/23 17:01	10
Benzene	2.7	U	10	2.7	ug/L			10/31/23 17:01	10
Bromodichloromethane	2.5	U	10	2.5	ug/L			10/31/23 17:01	10
Bromoform	5.9	U J3	10	5.9	ug/L			10/31/23 17:01	10
Bromomethane	37	U	50	37	ug/L			10/31/23 17:01	10
Carbon disulfide	4.3	U	20	4.3	ug/L			10/31/23 17:01	10
Carbon tetrachloride	3.0	U	10	3.0	ug/L			10/31/23 17:01	10
Chlorobenzene	1.5	U	10	1.5	ug/L			10/31/23 17:01	10
Chloroethane	46	U	50	46	ug/L			10/31/23 17:01	10
Chloroform	2.7	U	10	2.7	ug/L			10/31/23 17:01	10
Chloromethane	5.4	U	10	5.4	ug/L			10/31/23 17:01	10

Client Sample ID: LC34-DPT0965-038.0-20231024
Lab Sample ID: 670-29236-20

Date Collected: 10/24/23 09:10
Matrix: Water
Date Received: 10/25/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**710**		10	2.5	ug/L			10/31/23 17:01	10
cis-1,3-Dichloropropene	2.6	U	10	2.6	ug/L			10/31/23 17:01	10
Cyclohexane	2.8	U	10	2.8	ug/L			10/31/23 17:01	10
Dibromochloromethane	3.9	U	10	3.9	ug/L			10/31/23 17:01	10
Dichlorodifluoromethane	3.6	U	10	3.6	ug/L			10/31/23 17:01	10
Ethylbenzene	2.0	U	10	2.0	ug/L			10/31/23 17:01	10
Isopropylbenzene	2.6	U	10	2.6	ug/L			10/31/23 17:01	10
m,p-Xylenes	4.9	U	10	4.9	ug/L			10/31/23 17:01	10
Methyl acetate	32	U	50	32	ug/L			10/31/23 17:01	10
Methyl tert-butyl ether	8.1	U	50	8.1	ug/L			10/31/23 17:01	10
Methylene Chloride	32	U	50	32	ug/L			10/31/23 17:01	10
o-Xylene	2.6	U	10	2.6	ug/L			10/31/23 17:01	10
Styrene	2.7	U	10	2.7	ug/L			10/31/23 17:01	10
Tetrachloroethene	3.5	U	10	3.5	ug/L			10/31/23 17:01	10
Toluene	2.5	U	10	2.5	ug/L			10/31/23 17:01	10
trans-1,2-Dichloroethene	3.4	U	10	3.4	ug/L			10/31/23 17:01	10
trans-1,3-Dichloropropene	2.3	U	10	2.3	ug/L			10/31/23 17:01	10
Trichloroethene	2.0	U	10	2.0	ug/L			10/31/23 17:01	10
Trichlorofluoromethane	3.3	U	10	3.3	ug/L			10/31/23 17:01	10
Vinyl chloride	**1900**		10	4.0	ug/L			10/31/23 17:01	10
Xylenes, Total	2.3	U	10	2.3	ug/L			10/31/23 17:01	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*87*		*60 - 124*		*10/31/23 17:01*	*10*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*		*10/31/23 17:01*	*10*
Dibromofluoromethane (Surr)	*92*		*70 - 130*		*10/31/23 17:01*	*10*
Toluene-d8 (Surr)	*104*		*70 - 130*		*10/31/23 17:01*	*10*

Client Sample ID: LC34-DPT0966-043.0-20231024
Lab Sample ID: 670-29236-21

Date Collected: 10/24/23 09:50
Matrix: Water
Date Received: 10/25/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	5.0	1.1	ug/L			10/31/23 17:48	5
1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	ug/L			10/31/23 17:48	5
1,1,2-Trichloro-1,2,2-trifluoroethane	1.2	U	5.0	1.2	ug/L			10/31/23 17:48	5
1,1,2-Trichloroethane	1.6	U	5.0	1.6	ug/L			10/31/23 17:48	5
1,1-Dichloroethane	1.7	U	5.0	1.7	ug/L			10/31/23 17:48	5
1,1-Dichloroethene	1.7	U	5.0	1.7	ug/L			10/31/23 17:48	5
1,2,4-Trichlorobenzene	2.7	U	25	2.7	ug/L			10/31/23 17:48	5
1,2-Dibromo-3-Chloropropane	9.0	U	25	9.0	ug/L			10/31/23 17:48	5
1,2-Dibromoethane (EDB)	1.7	U	5.0	1.7	ug/L			10/31/23 17:48	5
1,2-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/31/23 17:48	5
1,2-Dichloroethane	1.3	U	5.0	1.3	ug/L			10/31/23 17:48	5
1,2-Dichloropropane	1.1	U	5.0	1.1	ug/L			10/31/23 17:48	5
1,3-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/31/23 17:48	5
1,4-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/31/23 17:48	5
2-Butanone (MEK)	32	U J3	50	32	ug/L			10/31/23 17:48	5
2-Hexanone	16	U J3	50	16	ug/L			10/31/23 17:48	5

Client Sample ID: LC34-DPT0966-043.0-20231024
Lab Sample ID: 670-29236-21

Date Collected: 10/24/23 09:50
Matrix: Water
Date Received: 10/25/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone	14	U J3	50	14	ug/L			10/31/23 17:48	5
Acetone	19	U J3	50	19	ug/L			10/31/23 17:48	5
Benzene	1.4	U	5.0	1.4	ug/L			10/31/23 17:48	5
Bromodichloromethane	1.3	U	5.0	1.3	ug/L			10/31/23 17:48	5
Bromoform	3.0	U J3	5.0	3.0	ug/L			10/31/23 17:48	5
Bromomethane	19	U	25	19	ug/L			10/31/23 17:48	5
Carbon disulfide	2.2	U	10	2.2	ug/L			10/31/23 17:48	5
Carbon tetrachloride	1.5	U	5.0	1.5	ug/L			10/31/23 17:48	5
Chlorobenzene	0.75	U	5.0	0.75	ug/L			10/31/23 17:48	5
Chloroethane	23	U	25	23	ug/L			10/31/23 17:48	5
Chloroform	1.4	U	5.0	1.4	ug/L			10/31/23 17:48	5
Chloromethane	2.7	U	5.0	2.7	ug/L			10/31/23 17:48	5
cis-1,2-Dichloroethene	**1.4**	**I**	5.0	1.3	ug/L			10/31/23 17:48	5
cis-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			10/31/23 17:48	5
Cyclohexane	1.4	U	5.0	1.4	ug/L			10/31/23 17:48	5
Dibromochloromethane	2.0	U	5.0	2.0	ug/L			10/31/23 17:48	5
Dichlorodifluoromethane	1.8	U	5.0	1.8	ug/L			10/31/23 17:48	5
Ethylbenzene	1.0	U	5.0	1.0	ug/L			10/31/23 17:48	5
Isopropylbenzene	1.3	U	5.0	1.3	ug/L			10/31/23 17:48	5
m,p-Xylenes	2.5	U	5.0	2.5	ug/L			10/31/23 17:48	5
Methyl acetate	16	U	25	16	ug/L			10/31/23 17:48	5
Methyl tert-butyl ether	4.1	U	25	4.1	ug/L			10/31/23 17:48	5
Methylene Chloride	16	U	25	16	ug/L			10/31/23 17:48	5
o-Xylene	1.3	U	5.0	1.3	ug/L			10/31/23 17:48	5
Styrene	1.4	U	5.0	1.4	ug/L			10/31/23 17:48	5
Tetrachloroethene	1.8	U	5.0	1.8	ug/L			10/31/23 17:48	5
Toluene	1.3	U	5.0	1.3	ug/L			10/31/23 17:48	5
trans-1,2-Dichloroethene	1.7	U	5.0	1.7	ug/L			10/31/23 17:48	5
trans-1,3-Dichloropropene	1.2	U	5.0	1.2	ug/L			10/31/23 17:48	5
Trichloroethene	1.0	U	5.0	1.0	ug/L			10/31/23 17:48	5
Trichlorofluoromethane	1.7	U	5.0	1.7	ug/L			10/31/23 17:48	5
Vinyl chloride	**560**		5.0	2.0	ug/L			10/31/23 17:48	5
Xylenes, Total	1.2	U	5.0	1.2	ug/L			10/31/23 17:48	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*60 - 124*		*10/31/23 17:48*	*5*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*		*10/31/23 17:48*	*5*
Dibromofluoromethane (Surr)	*94*		*70 - 130*		*10/31/23 17:48*	*5*
Toluene-d8 (Surr)	*88*		*70 - 130*		*10/31/23 17:48*	*5*

Client Sample ID: LC34-DPT0966-038.0-20231024
Lab Sample ID: 670-29236-22

Date Collected: 10/24/23 10:05
Matrix: Water
Date Received: 10/25/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2.1	U	10	2.1	ug/L			10/31/23 17:25	10
1,1,2,2-Tetrachloroethane	4.0	U	10	4.0	ug/L			10/31/23 17:25	10
1,1,2-Trichloro-1,2,2-trifluoroethane	2.3	U	10	2.3	ug/L			10/31/23 17:25	10
1,1,2-Trichloroethane	3.2	U	10	3.2	ug/L			10/31/23 17:25	10

Client Sample ID: LC34-DPT0966-038.0-20231024
Lab Sample ID: 670-29236-22
Date Collected: 10/24/23 10:05
Matrix: Water
Date Received: 10/25/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	3.3	U	10	3.3	ug/L			10/31/23 17:25	10
1,1-Dichloroethene	3.3	U	10	3.3	ug/L			10/31/23 17:25	10
1,2,4-Trichlorobenzene	5.3	U	50	5.3	ug/L			10/31/23 17:25	10
1,2-Dibromo-3-Chloropropane	18	U	50	18	ug/L			10/31/23 17:25	10
1,2-Dibromoethane (EDB)	3.3	U	10	3.3	ug/L			10/31/23 17:25	10
1,2-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/31/23 17:25	10
1,2-Dichloroethane	2.5	U	10	2.5	ug/L			10/31/23 17:25	10
1,2-Dichloropropane	2.2	U	10	2.2	ug/L			10/31/23 17:25	10
1,3-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/31/23 17:25	10
1,4-Dichlorobenzene	3.1	U	10	3.1	ug/L			10/31/23 17:25	10
2-Butanone (MEK)	64	U J3	100	64	ug/L			10/31/23 17:25	10
2-Hexanone	32	U J3	100	32	ug/L			10/31/23 17:25	10
4-Methyl-2-pentanone	27	U J3	100	27	ug/L			10/31/23 17:25	10
Acetone	37	U J3	100	37	ug/L			10/31/23 17:25	10
Benzene	2.7	U	10	2.7	ug/L			10/31/23 17:25	10
Bromodichloromethane	2.5	U	10	2.5	ug/L			10/31/23 17:25	10
Bromoform	5.9	U J3	10	5.9	ug/L			10/31/23 17:25	10
Bromomethane	37	U	50	37	ug/L			10/31/23 17:25	10
Carbon disulfide	4.3	U	20	4.3	ug/L			10/31/23 17:25	10
Carbon tetrachloride	3.0	U	10	3.0	ug/L			10/31/23 17:25	10
Chlorobenzene	1.5	U	10	1.5	ug/L			10/31/23 17:25	10
Chloroethane	46	U	50	46	ug/L			10/31/23 17:25	10
Chloroform	2.7	U	10	2.7	ug/L			10/31/23 17:25	10
Chloromethane	5.4	U	10	5.4	ug/L			10/31/23 17:25	10
cis-1,2-Dichloroethene	**3.5**	**I**	10	2.5	ug/L			10/31/23 17:25	10
cis-1,3-Dichloropropene	2.6	U	10	2.6	ug/L			10/31/23 17:25	10
Cyclohexane	2.8	U	10	2.8	ug/L			10/31/23 17:25	10
Dibromochloromethane	3.9	U	10	3.9	ug/L			10/31/23 17:25	10
Dichlorodifluoromethane	3.6	U	10	3.6	ug/L			10/31/23 17:25	10
Ethylbenzene	2.0	U	10	2.0	ug/L			10/31/23 17:25	10
Isopropylbenzene	2.6	U	10	2.6	ug/L			10/31/23 17:25	10
m,p-Xylenes	4.9	U	10	4.9	ug/L			10/31/23 17:25	10
Methyl acetate	32	U	50	32	ug/L			10/31/23 17:25	10
Methyl tert-butyl ether	8.1	U	50	8.1	ug/L			10/31/23 17:25	10
Methylene Chloride	32	U	50	32	ug/L			10/31/23 17:25	10
o-Xylene	2.6	U	10	2.6	ug/L			10/31/23 17:25	10
Styrene	2.7	U	10	2.7	ug/L			10/31/23 17:25	10
Tetrachloroethene	3.5	U	10	3.5	ug/L			10/31/23 17:25	10
Toluene	2.5	U	10	2.5	ug/L			10/31/23 17:25	10
trans-1,2-Dichloroethene	3.4	U	10	3.4	ug/L			10/31/23 17:25	10
trans-1,3-Dichloropropene	2.3	U	10	2.3	ug/L			10/31/23 17:25	10
Trichloroethene	2.0	U	10	2.0	ug/L			10/31/23 17:25	10
Trichlorofluoromethane	3.3	U	10	3.3	ug/L			10/31/23 17:25	10
Vinyl chloride	**1500**		10	4.0	ug/L			10/31/23 17:25	10
Xylenes, Total	2.3	U	10	2.3	ug/L			10/31/23 17:25	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*		*10/31/23 17:25*	*10*
4-Bromofluorobenzene (Surr)	*80*		*70 - 130*		*10/31/23 17:25*	*10*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*10/31/23 17:25*	*10*

Client Sample ID: LC34-DPT0966-038.0-20231024
Lab Sample ID: 670-29236-22

Date Collected: 10/24/23 10:05
Matrix: Water
Date Received: 10/25/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	106		70 - 130		10/31/23 17:25	10

Client Sample ID: LC34-DPT0967-043.0-20231024
Lab Sample ID: 670-29236-23

Date Collected: 10/24/23 10:45
Matrix: Water
Date Received: 10/25/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/30/23 20:03	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/30/23 20:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/30/23 20:03	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/30/23 20:03	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/30/23 20:03	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/30/23 20:03	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/30/23 20:03	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/30/23 20:03	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/30/23 20:03	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/30/23 20:03	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/30/23 20:03	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/30/23 20:03	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/30/23 20:03	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/30/23 20:03	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/30/23 20:03	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/30/23 20:03	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/30/23 20:03	1
Acetone	3.7	U	10	3.7	ug/L			10/30/23 20:03	1
Benzene	0.27	U	1.0	0.27	ug/L			10/30/23 20:03	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/30/23 20:03	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/30/23 20:03	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/30/23 20:03	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/30/23 20:03	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/30/23 20:03	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/30/23 20:03	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/30/23 20:03	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/30/23 20:03	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/30/23 20:03	1
cis-1,2-Dichloroethene	**2.0**		1.0	0.25	ug/L			10/30/23 20:03	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/30/23 20:03	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/30/23 20:03	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/30/23 20:03	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/30/23 20:03	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/30/23 20:03	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/30/23 20:03	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/30/23 20:03	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/30/23 20:03	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/30/23 20:03	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/30/23 20:03	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/30/23 20:03	1
Styrene	0.27	U	1.0	0.27	ug/L			10/30/23 20:03	1

Client Sample ID: LC34-DPT0967-043.0-20231024
Lab Sample ID: 670-29236-23

Date Collected: 10/24/23 10:45
Matrix: Water
Date Received: 10/25/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/30/23 20:03	1
Toluene	0.25	U	1.0	0.25	ug/L			10/30/23 20:03	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/30/23 20:03	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/30/23 20:03	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/30/23 20:03	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/30/23 20:03	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/30/23 20:03	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/30/23 20:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*60 - 124*		*10/30/23 20:03*	*1*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*10/30/23 20:03*	*1*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*10/30/23 20:03*	*1*
Toluene-d8 (Surr)	*92*		*70 - 130*		*10/30/23 20:03*	*1*

Client Sample ID: LC34-DPT0967-038.0-20231024
Lab Sample ID: 670-29236-24

Date Collected: 10/24/23 11:00
Matrix: Water
Date Received: 10/25/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.42	U	2.0	0.42	ug/L			10/31/23 18:11	2
1,1,2,2-Tetrachloroethane	0.80	U	2.0	0.80	ug/L			10/31/23 18:11	2
1,1,2-Trichloro-1,2,2-trifluoroethane	0.46	U	2.0	0.46	ug/L			10/31/23 18:11	2
1,1,2-Trichloroethane	0.64	U	2.0	0.64	ug/L			10/31/23 18:11	2
1,1-Dichloroethane	0.66	U	2.0	0.66	ug/L			10/31/23 18:11	2
1,1-Dichloroethene	0.66	U	2.0	0.66	ug/L			10/31/23 18:11	2
1,2,4-Trichlorobenzene	1.1	U	10	1.1	ug/L			10/31/23 18:11	2
1,2-Dibromo-3-Chloropropane	3.6	U	10	3.6	ug/L			10/31/23 18:11	2
1,2-Dibromoethane (EDB)	0.66	U	2.0	0.66	ug/L			10/31/23 18:11	2
1,2-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/31/23 18:11	2
1,2-Dichloroethane	0.50	U	2.0	0.50	ug/L			10/31/23 18:11	2
1,2-Dichloropropane	0.44	U	2.0	0.44	ug/L			10/31/23 18:11	2
1,3-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/31/23 18:11	2
1,4-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			10/31/23 18:11	2
2-Butanone (MEK)	13	U J3	20	13	ug/L			10/31/23 18:11	2
2-Hexanone	6.4	U J3	20	6.4	ug/L			10/31/23 18:11	2
4-Methyl-2-pentanone	5.4	U J3	20	5.4	ug/L			10/31/23 18:11	2
Acetone	7.4	U J3	20	7.4	ug/L			10/31/23 18:11	2
Benzene	0.54	U	2.0	0.54	ug/L			10/31/23 18:11	2
Bromodichloromethane	0.50	U	2.0	0.50	ug/L			10/31/23 18:11	2
Bromoform	1.2	U J3	2.0	1.2	ug/L			10/31/23 18:11	2
Bromomethane	7.4	U	10	7.4	ug/L			10/31/23 18:11	2
Carbon disulfide	0.86	U	4.0	0.86	ug/L			10/31/23 18:11	2
Carbon tetrachloride	0.60	U	2.0	0.60	ug/L			10/31/23 18:11	2
Chlorobenzene	0.30	U	2.0	0.30	ug/L			10/31/23 18:11	2
Chloroethane	9.2	U	10	9.2	ug/L			10/31/23 18:11	2
Chloroform	0.54	U	2.0	0.54	ug/L			10/31/23 18:11	2
Chloromethane	1.1	U	2.0	1.1	ug/L			10/31/23 18:11	2
cis-1,2-Dichloroethene	**190**		2.0	0.50	ug/L			10/31/23 18:11	2

Client Sample ID: LC34-DPT0967-038.0-20231024
Lab Sample ID: 670-29236-24

Date Collected: 10/24/23 11:00
Matrix: Water
Date Received: 10/25/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	0.52	U	2.0	0.52	ug/L			10/31/23 18:11	2
Cyclohexane	0.56	U	2.0	0.56	ug/L			10/31/23 18:11	2
Dibromochloromethane	0.78	U	2.0	0.78	ug/L			10/31/23 18:11	2
Dichlorodifluoromethane	0.72	U	2.0	0.72	ug/L			10/31/23 18:11	2
Ethylbenzene	0.40	U	2.0	0.40	ug/L			10/31/23 18:11	2
Isopropylbenzene	0.52	U	2.0	0.52	ug/L			10/31/23 18:11	2
m,p-Xylenes	0.98	U	2.0	0.98	ug/L			10/31/23 18:11	2
Methyl acetate	6.4	U	10	6.4	ug/L			10/31/23 18:11	2
Methyl tert-butyl ether	1.6	U	10	1.6	ug/L			10/31/23 18:11	2
Methylene Chloride	6.4	U	10	6.4	ug/L			10/31/23 18:11	2
o-Xylene	0.52	U	2.0	0.52	ug/L			10/31/23 18:11	2
Styrene	0.54	U	2.0	0.54	ug/L			10/31/23 18:11	2
Tetrachloroethene	0.70	U	2.0	0.70	ug/L			10/31/23 18:11	2
Toluene	0.50	U	2.0	0.50	ug/L			10/31/23 18:11	2
trans-1,2-Dichloroethene	0.68	U	2.0	0.68	ug/L			10/31/23 18:11	2
trans-1,3-Dichloropropene	0.46	U	2.0	0.46	ug/L			10/31/23 18:11	2
Trichloroethene	**0.68**	**I**	2.0	0.40	ug/L			10/31/23 18:11	2
Trichlorofluoromethane	0.66	U	2.0	0.66	ug/L			10/31/23 18:11	2
Vinyl chloride	**6.4**		2.0	0.80	ug/L			10/31/23 18:11	2
Xylenes, Total	0.46	U	2.0	0.46	ug/L			10/31/23 18:11	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 124*		*10/31/23 18:11*	*2*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*		*10/31/23 18:11*	*2*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*10/31/23 18:11*	*2*
Toluene-d8 (Surr)	*87*		*70 - 130*		*10/31/23 18:11*	*2*

Client Sample ID: LC34-DPT0969-043.0-20231024
Lab Sample ID: 670-29236-25

Date Collected: 10/24/23 11:50
Matrix: Water
Date Received: 10/25/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/31/23 15:28	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/31/23 15:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/31/23 15:28	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/31/23 15:28	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/31/23 15:28	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/31/23 15:28	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/31/23 15:28	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/31/23 15:28	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/31/23 15:28	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/31/23 15:28	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/31/23 15:28	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/31/23 15:28	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/31/23 15:28	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/31/23 15:28	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			10/31/23 15:28	1
2-Hexanone	3.2	U J3	10	3.2	ug/L			10/31/23 15:28	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			10/31/23 15:28	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-29236-1

Client Sample ID: LC34-DPT0969-043.0-20231024

Lab Sample ID: 670-29236-25

Date Collected: 10/24/23 11:50

Matrix: Water

Date Received: 10/25/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	3.7	U J3	10	3.7	ug/L			10/31/23 15:28	1
Benzene	0.27	U	1.0	0.27	ug/L			10/31/23 15:28	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/31/23 15:28	1
Bromoform	0.59	U J3	1.0	0.59	ug/L			10/31/23 15:28	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/31/23 15:28	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/31/23 15:28	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/31/23 15:28	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/31/23 15:28	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/31/23 15:28	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/31/23 15:28	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/31/23 15:28	1
cis-1,2-Dichloroethene	**0.84**	**I**	1.0	0.25	ug/L			10/31/23 15:28	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/31/23 15:28	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/31/23 15:28	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/31/23 15:28	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/31/23 15:28	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/31/23 15:28	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/31/23 15:28	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/31/23 15:28	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/31/23 15:28	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/31/23 15:28	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/31/23 15:28	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/31/23 15:28	1
Styrene	0.27	U	1.0	0.27	ug/L			10/31/23 15:28	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/31/23 15:28	1
Toluene	0.25	U	1.0	0.25	ug/L			10/31/23 15:28	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/31/23 15:28	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/31/23 15:28	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/31/23 15:28	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/31/23 15:28	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/31/23 15:28	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/31/23 15:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*60 - 124*		*10/31/23 15:28*	*1*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*10/31/23 15:28*	*1*
Dibromofluoromethane (Surr)	*94*		*70 - 130*		*10/31/23 15:28*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*10/31/23 15:28*	*1*

Client Sample ID: LC34-DPT0969-038.0-20231024

Lab Sample ID: 670-29236-26

Date Collected: 10/24/23 12:05

Matrix: Water

Date Received: 10/25/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	21	U	100	21	ug/L			10/31/23 18:23	100
1,1,2,2-Tetrachloroethane	40	U	100	40	ug/L			10/31/23 18:23	100
1,1,2-Trichloro-1,2,2-trifluoroethane	23	U	100	23	ug/L			10/31/23 18:23	100
1,1,2-Trichloroethane	32	U	100	32	ug/L			10/31/23 18:23	100
1,1-Dichloroethane	33	U	100	33	ug/L			10/31/23 18:23	100

Client: Tetra Tech, Inc.
Job ID: 670-29236-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT0969-038.0-20231024
Lab Sample ID: 670-29236-26
Date Collected: 10/24/23 12:05
Matrix: Water
Date Received: 10/25/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	33	U	100	33	ug/L			10/31/23 18:23	100
1,2,4-Trichlorobenzene	53	U	500	53	ug/L			10/31/23 18:23	100
1,2-Dibromo-3-Chloropropane	180	U	500	180	ug/L			10/31/23 18:23	100
1,2-Dibromoethane (EDB)	33	U	100	33	ug/L			10/31/23 18:23	100
1,2-Dichlorobenzene	31	U	100	31	ug/L			10/31/23 18:23	100
1,2-Dichloroethane	25	U	100	25	ug/L			10/31/23 18:23	100
1,2-Dichloropropane	22	U	100	22	ug/L			10/31/23 18:23	100
1,3-Dichlorobenzene	31	U	100	31	ug/L			10/31/23 18:23	100
1,4-Dichlorobenzene	31	U	100	31	ug/L			10/31/23 18:23	100
2-Butanone (MEK)	640	U	1000	640	ug/L			10/31/23 18:23	100
2-Hexanone	320	U	1000	320	ug/L			10/31/23 18:23	100
4-Methyl-2-pentanone	270	U	1000	270	ug/L			10/31/23 18:23	100
Acetone	370	U J3	1000	370	ug/L			10/31/23 18:23	100
Benzene	27	U	100	27	ug/L			10/31/23 18:23	100
Bromodichloromethane	25	U	100	25	ug/L			10/31/23 18:23	100
Bromoform	59	U	100	59	ug/L			10/31/23 18:23	100
Bromomethane	370	U	500	370	ug/L			10/31/23 18:23	100
Carbon disulfide	43	U	200	43	ug/L			10/31/23 18:23	100
Carbon tetrachloride	30	U	100	30	ug/L			10/31/23 18:23	100
Chlorobenzene	15	U	100	15	ug/L			10/31/23 18:23	100
Chloroethane	460	U	500	460	ug/L			10/31/23 18:23	100
Chloroform	27	U	100	27	ug/L			10/31/23 18:23	100
Chloromethane	54	U	100	54	ug/L			10/31/23 18:23	100
cis-1,2-Dichloroethene	**13000**		100	25	ug/L			10/31/23 18:23	100
cis-1,3-Dichloropropene	26	U	100	26	ug/L			10/31/23 18:23	100
Cyclohexane	28	U	100	28	ug/L			10/31/23 18:23	100
Dibromochloromethane	39	U	100	39	ug/L			10/31/23 18:23	100
Dichlorodifluoromethane	36	U	100	36	ug/L			10/31/23 18:23	100
Ethylbenzene	20	U	100	20	ug/L			10/31/23 18:23	100
Isopropylbenzene	26	U	100	26	ug/L			10/31/23 18:23	100
m,p-Xylenes	49	U	100	49	ug/L			10/31/23 18:23	100
Methyl acetate	320	U	500	320	ug/L			10/31/23 18:23	100
Methyl tert-butyl ether	81	U	500	81	ug/L			10/31/23 18:23	100
Methylene Chloride	320	U	500	320	ug/L			10/31/23 18:23	100
o-Xylene	26	U	100	26	ug/L			10/31/23 18:23	100
Styrene	27	U	100	27	ug/L			10/31/23 18:23	100
Tetrachloroethene	35	U	100	35	ug/L			10/31/23 18:23	100
Toluene	25	U	100	25	ug/L			10/31/23 18:23	100
trans-1,2-Dichloroethene	**130**		100	34	ug/L			10/31/23 18:23	100
trans-1,3-Dichloropropene	23	U	100	23	ug/L			10/31/23 18:23	100
Trichloroethene	20	U	100	20	ug/L			10/31/23 18:23	100
Trichlorofluoromethane	33	U	100	33	ug/L			10/31/23 18:23	100
Vinyl chloride	**2300**		100	40	ug/L			10/31/23 18:23	100
Xylenes, Total	23	U	100	23	ug/L			10/31/23 18:23	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*75*		*60 - 124*		*10/31/23 18:23*	*100*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*10/31/23 18:23*	*100*
Dibromofluoromethane (Surr)	*68*	*J1*	*70 - 130*		*10/31/23 18:23*	*100*
Toluene-d8 (Surr)	*111*		*70 - 130*		*10/31/23 18:23*	*100*

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-29236-1

Client Sample ID: LC34-DPT0970-043.0-20231024
Date Collected: 10/24/23 12:45
Date Received: 10/25/23 08:00

Lab Sample ID: 670-29236-27
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/31/23 15:51	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/31/23 15:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/31/23 15:51	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/31/23 15:51	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/31/23 15:51	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/31/23 15:51	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/31/23 15:51	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/31/23 15:51	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/31/23 15:51	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/31/23 15:51	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/31/23 15:51	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/31/23 15:51	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/31/23 15:51	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/31/23 15:51	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			10/31/23 15:51	1
2-Hexanone	3.2	U J3	10	3.2	ug/L			10/31/23 15:51	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			10/31/23 15:51	1
Acetone	3.7	U J3	10	3.7	ug/L			10/31/23 15:51	1
Benzene	0.27	U	1.0	0.27	ug/L			10/31/23 15:51	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/31/23 15:51	1
Bromoform	0.59	U J3	1.0	0.59	ug/L			10/31/23 15:51	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/31/23 15:51	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/31/23 15:51	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/31/23 15:51	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/31/23 15:51	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/31/23 15:51	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/31/23 15:51	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/31/23 15:51	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/31/23 15:51	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/31/23 15:51	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/31/23 15:51	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/31/23 15:51	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/31/23 15:51	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/31/23 15:51	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/31/23 15:51	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/31/23 15:51	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/31/23 15:51	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/31/23 15:51	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/31/23 15:51	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/31/23 15:51	1
Styrene	0.27	U	1.0	0.27	ug/L			10/31/23 15:51	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/31/23 15:51	1
Toluene	0.25	U	1.0	0.25	ug/L			10/31/23 15:51	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/31/23 15:51	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/31/23 15:51	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/31/23 15:51	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/31/23 15:51	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/31/23 15:51	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/31/23 15:51	1

Client Sample ID: LC34-DPT0970-043.0-20231024
Lab Sample ID: 670-29236-27

Date Collected: 10/24/23 12:45
Matrix: Water
Date Received: 10/25/23 08:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*90*		*60 - 124*		*10/31/23 15:51*	*1*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*		*10/31/23 15:51*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*10/31/23 15:51*	*1*
Toluene-d8 (Surr)	*106*		*70 - 130*		*10/31/23 15:51*	*1*

Client Sample ID: LC34-DPT0970-038.0-20231024
Lab Sample ID: 670-29236-28

Date Collected: 10/24/23 13:00
Matrix: Water
Date Received: 10/25/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	5.0	1.1	ug/L			10/31/23 14:18	5
1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	ug/L			10/31/23 14:18	5
1,1,2-Trichloro-1,2,2-trifluoroethane	1.2	U	5.0	1.2	ug/L			10/31/23 14:18	5
1,1,2-Trichloroethane	1.6	U	5.0	1.6	ug/L			10/31/23 14:18	5
1,1-Dichloroethane	1.7	U	5.0	1.7	ug/L			10/31/23 14:18	5
1,1-Dichloroethene	1.7	U	5.0	1.7	ug/L			10/31/23 14:18	5
1,2,4-Trichlorobenzene	2.7	U	25	2.7	ug/L			10/31/23 14:18	5
1,2-Dibromo-3-Chloropropane	9.0	U	25	9.0	ug/L			10/31/23 14:18	5
1,2-Dibromoethane (EDB)	1.7	U	5.0	1.7	ug/L			10/31/23 14:18	5
1,2-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/31/23 14:18	5
1,2-Dichloroethane	1.3	U	5.0	1.3	ug/L			10/31/23 14:18	5
1,2-Dichloropropane	1.1	U	5.0	1.1	ug/L			10/31/23 14:18	5
1,3-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/31/23 14:18	5
1,4-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/31/23 14:18	5
2-Butanone (MEK)	**59**	**J3**	50	32	ug/L			10/31/23 14:18	5
2-Hexanone	16	U J3	50	16	ug/L			10/31/23 14:18	5
4-Methyl-2-pentanone	14	U J3	50	14	ug/L			10/31/23 14:18	5
Acetone	19	U J3	50	19	ug/L			10/31/23 14:18	5
Benzene	1.4	U	5.0	1.4	ug/L			10/31/23 14:18	5
Bromodichloromethane	1.3	U	5.0	1.3	ug/L			10/31/23 14:18	5
Bromoform	3.0	U J3	5.0	3.0	ug/L			10/31/23 14:18	5
Bromomethane	19	U	25	19	ug/L			10/31/23 14:18	5
Carbon disulfide	2.2	U	10	2.2	ug/L			10/31/23 14:18	5
Carbon tetrachloride	**17**		5.0	1.5	ug/L			10/31/23 14:18	5
Chlorobenzene	0.75	U	5.0	0.75	ug/L			10/31/23 14:18	5
Chloroethane	23	U	25	23	ug/L			10/31/23 14:18	5
Chloroform	**3.3**	**I**	5.0	1.4	ug/L			10/31/23 14:18	5
Chloromethane	2.7	U	5.0	2.7	ug/L			10/31/23 14:18	5
cis-1,2-Dichloroethene	**460**		5.0	1.3	ug/L			10/31/23 14:18	5
cis-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			10/31/23 14:18	5
Cyclohexane	1.4	U	5.0	1.4	ug/L			10/31/23 14:18	5
Dibromochloromethane	2.0	U	5.0	2.0	ug/L			10/31/23 14:18	5
Dichlorodifluoromethane	1.8	U	5.0	1.8	ug/L			10/31/23 14:18	5
Ethylbenzene	1.0	U	5.0	1.0	ug/L			10/31/23 14:18	5
Isopropylbenzene	1.3	U	5.0	1.3	ug/L			10/31/23 14:18	5
m,p-Xylenes	2.5	U	5.0	2.5	ug/L			10/31/23 14:18	5
Methyl acetate	16	U	25	16	ug/L			10/31/23 14:18	5
Methyl tert-butyl ether	4.1	U	25	4.1	ug/L			10/31/23 14:18	5
Methylene Chloride	16	U	25	16	ug/L			10/31/23 14:18	5

Client Sample ID: LC34-DPT0970-038.0-20231024
Lab Sample ID: 670-29236-28

Date Collected: 10/24/23 13:00
Matrix: Water
Date Received: 10/25/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	1.3	U	5.0	1.3	ug/L			10/31/23 14:18	5
Styrene	1.4	U	5.0	1.4	ug/L			10/31/23 14:18	5
Tetrachloroethene	1.8	U	5.0	1.8	ug/L			10/31/23 14:18	5
Toluene	1.3	U	5.0	1.3	ug/L			10/31/23 14:18	5
trans-1,2-Dichloroethene	1.7	U	5.0	1.7	ug/L			10/31/23 14:18	5
trans-1,3-Dichloropropene	1.2	U	5.0	1.2	ug/L			10/31/23 14:18	5
Trichloroethene	1.0	U	5.0	1.0	ug/L			10/31/23 14:18	5
Trichlorofluoromethane	1.7	U	5.0	1.7	ug/L			10/31/23 14:18	5
Vinyl chloride	**77**		5.0	2.0	ug/L			10/31/23 14:18	5
Xylenes, Total	1.2	U	5.0	1.2	ug/L			10/31/23 14:18	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*60 - 124*		*10/31/23 14:18*	*5*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*10/31/23 14:18*	*5*
Dibromofluoromethane (Surr)	*93*		*70 - 130*		*10/31/23 14:18*	*5*
Toluene-d8 (Surr)	*113*		*70 - 130*		*10/31/23 14:18*	*5*

Client Sample ID: LC34-DPT0994-043.-20231024
Lab Sample ID: 670-29236-29

Date Collected: 10/24/23 13:40
Matrix: Water
Date Received: 10/25/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	5.0	1.1	ug/L			10/31/23 14:41	5
1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	ug/L			10/31/23 14:41	5
1,1,2-Trichloro-1,2,2-trifluoroethane	1.2	U	5.0	1.2	ug/L			10/31/23 14:41	5
1,1,2-Trichloroethane	1.6	U	5.0	1.6	ug/L			10/31/23 14:41	5
1,1-Dichloroethane	1.7	U	5.0	1.7	ug/L			10/31/23 14:41	5
1,1-Dichloroethene	1.7	U	5.0	1.7	ug/L			10/31/23 14:41	5
1,2,4-Trichlorobenzene	2.7	U	25	2.7	ug/L			10/31/23 14:41	5
1,2-Dibromo-3-Chloropropane	9.0	U	25	9.0	ug/L			10/31/23 14:41	5
1,2-Dibromoethane (EDB)	1.7	U	5.0	1.7	ug/L			10/31/23 14:41	5
1,2-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/31/23 14:41	5
1,2-Dichloroethane	1.3	U	5.0	1.3	ug/L			10/31/23 14:41	5
1,2-Dichloropropane	1.1	U	5.0	1.1	ug/L			10/31/23 14:41	5
1,3-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/31/23 14:41	5
1,4-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/31/23 14:41	5
2-Butanone (MEK)	32	U J3	50	32	ug/L			10/31/23 14:41	5
2-Hexanone	16	U J3	50	16	ug/L			10/31/23 14:41	5
4-Methyl-2-pentanone	14	U J3	50	14	ug/L			10/31/23 14:41	5
Acetone	19	U J3	50	19	ug/L			10/31/23 14:41	5
Benzene	1.4	U	5.0	1.4	ug/L			10/31/23 14:41	5
Bromodichloromethane	1.3	U	5.0	1.3	ug/L			10/31/23 14:41	5
Bromoform	3.0	U J3	5.0	3.0	ug/L			10/31/23 14:41	5
Bromomethane	19	U	25	19	ug/L			10/31/23 14:41	5
Carbon disulfide	2.2	U	10	2.2	ug/L			10/31/23 14:41	5
Carbon tetrachloride	1.5	U	5.0	1.5	ug/L			10/31/23 14:41	5
Chlorobenzene	0.75	U	5.0	0.75	ug/L			10/31/23 14:41	5
Chloroethane	23	U	25	23	ug/L			10/31/23 14:41	5
Chloroform	1.4	U	5.0	1.4	ug/L			10/31/23 14:41	5

Client Sample ID: LC34-DPT0994-043.-20231024
Lab Sample ID: 670-29236-29

Date Collected: 10/24/23 13:40
Matrix: Water
Date Received: 10/25/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	2.7	U	5.0	2.7	ug/L			10/31/23 14:41	5
cis-1,2-Dichloroethene	**1.3**	**I**	5.0	1.3	ug/L			10/31/23 14:41	5
cis-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			10/31/23 14:41	5
Cyclohexane	1.4	U	5.0	1.4	ug/L			10/31/23 14:41	5
Dibromochloromethane	2.0	U	5.0	2.0	ug/L			10/31/23 14:41	5
Dichlorodifluoromethane	1.8	U	5.0	1.8	ug/L			10/31/23 14:41	5
Ethylbenzene	1.0	U	5.0	1.0	ug/L			10/31/23 14:41	5
Isopropylbenzene	1.3	U	5.0	1.3	ug/L			10/31/23 14:41	5
m,p-Xylenes	2.5	U	5.0	2.5	ug/L			10/31/23 14:41	5
Methyl acetate	16	U	25	16	ug/L			10/31/23 14:41	5
Methyl tert-butyl ether	4.1	U	25	4.1	ug/L			10/31/23 14:41	5
Methylene Chloride	16	U	25	16	ug/L			10/31/23 14:41	5
o-Xylene	1.3	U	5.0	1.3	ug/L			10/31/23 14:41	5
Styrene	1.4	U	5.0	1.4	ug/L			10/31/23 14:41	5
Tetrachloroethene	1.8	U	5.0	1.8	ug/L			10/31/23 14:41	5
Toluene	1.3	U	5.0	1.3	ug/L			10/31/23 14:41	5
trans-1,2-Dichloroethene	1.7	U	5.0	1.7	ug/L			10/31/23 14:41	5
trans-1,3-Dichloropropene	1.2	U	5.0	1.2	ug/L			10/31/23 14:41	5
Trichloroethene	1.0	U	5.0	1.0	ug/L			10/31/23 14:41	5
Trichlorofluoromethane	1.7	U	5.0	1.7	ug/L			10/31/23 14:41	5
Vinyl chloride	**370**		5.0	2.0	ug/L			10/31/23 14:41	5
Xylenes, Total	1.2	U	5.0	1.2	ug/L			10/31/23 14:41	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*60 - 124*		*10/31/23 14:41*	*5*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*		*10/31/23 14:41*	*5*
Dibromofluoromethane (Surr)	*94*		*70 - 130*		*10/31/23 14:41*	*5*
Toluene-d8 (Surr)	*108*		*70 - 130*		*10/31/23 14:41*	*5*

Client Sample ID: LC34-DPT0994-038.0-20231024
Lab Sample ID: 670-29236-30

Date Collected: 10/24/23 13:55
Matrix: Water
Date Received: 10/25/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.3	U	25	5.3	ug/L			10/31/23 15:05	25
1,1,2,2-Tetrachloroethane	10	U	25	10	ug/L			10/31/23 15:05	25
1,1,2-Trichloro-1,2,2-trifluoroethane	5.8	U	25	5.8	ug/L			10/31/23 15:05	25
1,1,2-Trichloroethane	8.0	U	25	8.0	ug/L			10/31/23 15:05	25
1,1-Dichloroethane	8.3	U	25	8.3	ug/L			10/31/23 15:05	25
1,1-Dichloroethene	8.3	U	25	8.3	ug/L			10/31/23 15:05	25
1,2,4-Trichlorobenzene	13	U	130	13	ug/L			10/31/23 15:05	25
1,2-Dibromo-3-Chloropropane	45	U	130	45	ug/L			10/31/23 15:05	25
1,2-Dibromoethane (EDB)	8.3	U	25	8.3	ug/L			10/31/23 15:05	25
1,2-Dichlorobenzene	7.8	U	25	7.8	ug/L			10/31/23 15:05	25
1,2-Dichloroethane	6.3	U	25	6.3	ug/L			10/31/23 15:05	25
1,2-Dichloropropane	5.5	U	25	5.5	ug/L			10/31/23 15:05	25
1,3-Dichlorobenzene	7.8	U	25	7.8	ug/L			10/31/23 15:05	25
1,4-Dichlorobenzene	7.8	U	25	7.8	ug/L			10/31/23 15:05	25
2-Butanone (MEK)	160	U J3	250	160	ug/L			10/31/23 15:05	25

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-29236-1

Client Sample ID: LC34-DPT0994-038.0-20231024
Date Collected: 10/24/23 13:55
Date Received: 10/25/23 08:00

Lab Sample ID: 670-29236-30
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	80	U J3	250	80	ug/L			10/31/23 15:05	25
4-Methyl-2-pentanone	68	U J3	250	68	ug/L			10/31/23 15:05	25
Acetone	93	U J3	250	93	ug/L			10/31/23 15:05	25
Benzene	6.8	U	25	6.8	ug/L			10/31/23 15:05	25
Bromodichloromethane	6.3	U	25	6.3	ug/L			10/31/23 15:05	25
Bromoform	15	U J3	25	15	ug/L			10/31/23 15:05	25
Bromomethane	93	U	130	93	ug/L			10/31/23 15:05	25
Carbon disulfide	11	U	50	11	ug/L			10/31/23 15:05	25
Carbon tetrachloride	7.5	U	25	7.5	ug/L			10/31/23 15:05	25
Chlorobenzene	3.8	U	25	3.8	ug/L			10/31/23 15:05	25
Chloroethane	120	U	130	120	ug/L			10/31/23 15:05	25
Chloroform	6.8	U	25	6.8	ug/L			10/31/23 15:05	25
Chloromethane	14	U	25	14	ug/L			10/31/23 15:05	25
cis-1,2-Dichloroethene	6.3	U	25	6.3	ug/L			10/31/23 15:05	25
cis-1,3-Dichloropropene	6.5	U	25	6.5	ug/L			10/31/23 15:05	25
Cyclohexane	7.0	U	25	7.0	ug/L			10/31/23 15:05	25
Dibromochloromethane	9.8	U	25	9.8	ug/L			10/31/23 15:05	25
Dichlorodifluoromethane	9.0	U	25	9.0	ug/L			10/31/23 15:05	25
Ethylbenzene	5.0	U	25	5.0	ug/L			10/31/23 15:05	25
Isopropylbenzene	6.5	U	25	6.5	ug/L			10/31/23 15:05	25
m,p-Xylenes	12	U	25	12	ug/L			10/31/23 15:05	25
Methyl acetate	80	U	130	80	ug/L			10/31/23 15:05	25
Methyl tert-butyl ether	20	U	130	20	ug/L			10/31/23 15:05	25
Methylene Chloride	80	U	130	80	ug/L			10/31/23 15:05	25
o-Xylene	6.5	U	25	6.5	ug/L			10/31/23 15:05	25
Styrene	6.8	U	25	6.8	ug/L			10/31/23 15:05	25
Tetrachloroethene	8.8	U	25	8.8	ug/L			10/31/23 15:05	25
Toluene	6.3	U	25	6.3	ug/L			10/31/23 15:05	25
trans-1,2-Dichloroethene	8.5	U	25	8.5	ug/L			10/31/23 15:05	25
trans-1,3-Dichloropropene	5.8	U	25	5.8	ug/L			10/31/23 15:05	25
Trichloroethene	5.0	U	25	5.0	ug/L			10/31/23 15:05	25
Trichlorofluoromethane	8.3	U	25	8.3	ug/L			10/31/23 15:05	25
Vinyl chloride	**2700**		25	10	ug/L			10/31/23 15:05	25
Xylenes, Total	5.8	U	25	5.8	ug/L			10/31/23 15:05	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*60 - 124*		*10/31/23 15:05*	*25*
4-Bromofluorobenzene (Surr)	*79*		*70 - 130*		*10/31/23 15:05*	*25*
Dibromofluoromethane (Surr)	*93*		*70 - 130*		*10/31/23 15:05*	*25*
Toluene-d8 (Surr)	*106*		*70 - 130*		*10/31/23 15:05*	*25*

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-29236-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(60-124)	(70-130)	(70-130)	(70-130)
670-29236-1	LC34-DPT1010-008.0-20231023	104	104	97	99
670-29236-2	LC34-DPT1010-013.0-20231023	103	102	98	97
670-29236-3	LC34-DPT1010-018.0-20231023	103	106	96	99
670-29236-4	LC34-DPT1010-025.0-20231023	105	103	98	100
670-29236-5	LC34-DPT1010-034.0-20231023	105	102	98	97
670-29236-6	LC34-DPT1010-038.0-20231023	104	105	97	99
670-29236-6 MS	LC34-DPT1010-038.0-20231023	129 J1	98	114	112
670-29236-6 MSD	LC34-DPT1010-038.0-20231023	132 J1	99	117	113
670-29236-7	LC34-DPT0962-043.0-20231023	103	106	98	96
670-29236-8	LC34-DPT0962-038.0-20231023	105	104	97	101
670-29236-9	LC34-DPT0961-043.0-20231023	103	103	97	97
670-29236-10	LC34-DPT0961-038.0-20231023	104	108	97	100
670-29236-11	LC34-DPT0960-043.0-20231023	91	112	104	112
670-29236-12	LC34-DPT0960-038.0-20231023	106	98 *	120	98
670-29236-13	LC34-DPT0959-043.0-20231023	83	105	90	109
670-29236-14	LC34-DPT0959-038.0-20231023	88	107	99	111
670-29236-15	LC34-DPT0958-043.0-20231023	88	102	98	108
670-29236-16	LC34-DPT0958-038.0-20231023	90	113	104	109
670-29236-17	LC34-DPT0963-043.0-20231024	91	103	99	115
670-29236-18	LC34-DPT0963-038.0-20231024	87	92	85	90
670-29236-19	LC34-DPT0965-043.0-20231024	91	115	93	108
670-29236-20	LC34-DPT0965-038.0-20231024	87	90	92	104
670-29236-21	LC34-DPT0966-043.0-20231024	91	91	94	88
670-29236-22	LC34-DPT0966-038.0-20231024	95	80	98	106
670-29236-23	LC34-DPT0967-043.0-20231024	107	105	109	92
670-29236-24	LC34-DPT0967-038.0-20231024	104	106	98	87
670-29236-25	LC34-DPT0969-043.0-20231024	93	94	94	99
670-29236-26	LC34-DPT0969-038.0-20231024	75	94	68 J1	111

Surrogate Summary

Client: Tetra Tech, Inc. Job ID: 670-29236-1
Project/Site: NASA KSC LC34 DPT

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(60-124)	(70-130)	(70-130)	(70-130)
670-29236-27	LC34-DPT0970-043.0-20231024	90	91	96	106
670-29236-28	LC34-DPT0970-038.0-20231024	91	93	93	113
670-29236-29	LC34-DPT0994-043.-20231024	92	84	94	108
670-29236-30	LC34-DPT0994-038.0-20231024	90	79	93	106
LCS 680-805207/4	Lab Control Sample	119	101	116	110
LCS 680-805311/6	Lab Control Sample	94	106	98	103
LCS 680-805493/5	Lab Control Sample	94	102	97	94
LCS 680-805498/3	Lab Control Sample	105	98	105	97
LCSD 680-805207/5	Lab Control Sample Dup	129 J1	98	114	112
LCSD 680-805311/7	Lab Control Sample Dup	95	104	100	97
LCSD 680-805493/6	Lab Control Sample Dup	90	92	94	97
LCSD 680-805498/4	Lab Control Sample Dup	109	104	105	97
MB 680-805207/8	Method Blank	103	106	97	96
MB 680-805311/11	Method Blank	83	119	96	109
MB 680-805493/9	Method Blank	72	106	76	103
MB 680-805498/7	Method Blank	90	93	93	114

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 680-805207/8
Matrix: Water
Analysis Batch: 805207

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/29/23 12:44	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/29/23 12:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/29/23 12:44	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/29/23 12:44	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/29/23 12:44	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/29/23 12:44	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/29/23 12:44	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/29/23 12:44	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/29/23 12:44	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/29/23 12:44	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/29/23 12:44	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/29/23 12:44	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/29/23 12:44	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/29/23 12:44	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/29/23 12:44	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/29/23 12:44	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/29/23 12:44	1
Acetone	3.7	U	10	3.7	ug/L			10/29/23 12:44	1
Benzene	0.27	U	1.0	0.27	ug/L			10/29/23 12:44	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/29/23 12:44	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/29/23 12:44	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/29/23 12:44	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/29/23 12:44	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/29/23 12:44	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/29/23 12:44	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/29/23 12:44	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/29/23 12:44	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/29/23 12:44	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/29/23 12:44	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/29/23 12:44	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/29/23 12:44	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/29/23 12:44	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/29/23 12:44	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/29/23 12:44	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/29/23 12:44	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/29/23 12:44	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/29/23 12:44	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/29/23 12:44	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/29/23 12:44	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/29/23 12:44	1
Styrene	0.27	U	1.0	0.27	ug/L			10/29/23 12:44	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/29/23 12:44	1
Toluene	0.25	U	1.0	0.25	ug/L			10/29/23 12:44	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/29/23 12:44	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/29/23 12:44	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/29/23 12:44	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/29/23 12:44	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/29/23 12:44	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-805207/8
Matrix: Water
Analysis Batch: 805207

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/29/23 12:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 124*		*10/29/23 12:44*	*1*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*		*10/29/23 12:44*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*10/29/23 12:44*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*10/29/23 12:44*	*1*

Lab Sample ID: LCS 680-805207/4
Matrix: Water
Analysis Batch: 805207

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	56.3		ug/L		113	70 - 130
1,1,2,2-Tetrachloroethane	50.0	45.1		ug/L		90	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	48.0		ug/L		96	63 - 141
1,1,2-Trichloroethane	50.0	55.8		ug/L		112	70 - 130
1,1-Dichloroethane	50.0	57.8		ug/L		116	70 - 130
1,1-Dichloroethene	50.0	56.3		ug/L		113	70 - 130
1,2,4-Trichlorobenzene	50.0	37.7		ug/L		75	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	34.5	J3	ug/L		69	70 - 130
1,2-Dibromoethane (EDB)	50.0	54.7		ug/L		109	70 - 130
1,2-Dichlorobenzene	50.0	46.3		ug/L		93	70 - 130
1,2-Dichloroethane	50.0	58.0		ug/L		116	70 - 130
1,2-Dichloropropane	50.0	54.8		ug/L		110	70 - 130
1,3-Dichlorobenzene	50.0	46.5		ug/L		93	70 - 130
1,4-Dichlorobenzene	50.0	47.4		ug/L		95	70 - 130
2-Butanone (MEK)	250	191		ug/L		76	69 - 120
2-Hexanone	250	256		ug/L		102	70 - 130
4-Methyl-2-pentanone	250	225		ug/L		90	68 - 120
Acetone	250	225		ug/L		90	67 - 120
Benzene	50.0	54.4		ug/L		109	70 - 130
Bromodichloromethane	50.0	56.3		ug/L		113	70 - 130
Bromoform	50.0	35.1		ug/L		70	69 - 129
Bromomethane	50.0	93.5		ug/L		187	28 - 192
Carbon disulfide	50.0	50.4		ug/L		101	70 - 130
Carbon tetrachloride	50.0	51.6		ug/L		103	70 - 130
Chlorobenzene	50.0	47.3		ug/L		95	70 - 130
Chloroethane	50.0	79.0		ug/L		158	31 - 213
Chloroform	50.0	57.7		ug/L		115	70 - 130
Chloromethane	50.0	42.2		ug/L		84	59 - 127
cis-1,2-Dichloroethene	50.0	55.4		ug/L		111	70 - 130
cis-1,3-Dichloropropene	50.0	56.7		ug/L		113	70 - 130
Cyclohexane	50.0	53.1		ug/L		106	23 - 175
Dibromochloromethane	50.0	47.1		ug/L		94	70 - 130
Dichlorodifluoromethane	50.0	55.9		ug/L		112	70 - 130
Ethylbenzene	50.0	47.9		ug/L		96	70 - 130
Isopropylbenzene	50.0	48.0		ug/L		96	70 - 130

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-805207/4
Matrix: Water
Analysis Batch: 805207

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
m,p-Xylenes	50.0	48.5		ug/L		97	70 - 130
Methyl acetate	100	99.3		ug/L		99	67 - 120
Methyl tert-butyl ether	50.0	47.1		ug/L		94	70 - 130
Methylene Chloride	50.0	54.5		ug/L		109	70 - 130
o-Xylene	50.0	48.0		ug/L		96	70 - 130
Styrene	50.0	49.0		ug/L		98	70 - 130
Tetrachloroethene	50.0	48.7		ug/L		97	70 - 130
Toluene	50.0	54.9		ug/L		110	70 - 130
trans-1,2-Dichloroethene	50.0	54.6		ug/L		109	70 - 130
trans-1,3-Dichloropropene	50.0	52.3		ug/L		105	70 - 130
Trichloroethene	50.0	50.8		ug/L		102	70 - 130
Trichlorofluoromethane	50.0	96.8	J3	ug/L		194	63 - 142
Vinyl chloride	50.0	47.9		ug/L		96	66 - 129
Xylenes, Total	100	96.5		ug/L		97	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*119*		*60 - 124*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
Dibromofluoromethane (Surr)	*116*		*70 - 130*
Toluene-d8 (Surr)	*110*		*70 - 130*

Lab Sample ID: LCSD 680-805207/5
Matrix: Water
Analysis Batch: 805207

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	50.0	56.0		ug/L		112	70 - 130	1	30
1,1,2,2-Tetrachloroethane	50.0	47.8		ug/L		96	70 - 130	6	30
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	54.9		ug/L		110	63 - 141	13	30
1,1,2-Trichloroethane	50.0	58.6		ug/L		117	70 - 130	5	30
1,1-Dichloroethane	50.0	57.4		ug/L		115	70 - 130	1	30
1,1-Dichloroethene	50.0	56.0		ug/L		112	70 - 130	0	20
1,2,4-Trichlorobenzene	50.0	37.8		ug/L		76	70 - 130	0	30
1,2-Dibromo-3-Chloropropane	50.0	35.1		ug/L		70	70 - 130	1	30
1,2-Dibromoethane (EDB)	50.0	56.9		ug/L		114	70 - 130	4	30
1,2-Dichlorobenzene	50.0	46.1		ug/L		92	70 - 130	0	30
1,2-Dichloroethane	50.0	59.7		ug/L		119	70 - 130	3	50
1,2-Dichloropropane	50.0	55.7		ug/L		111	70 - 130	2	20
1,3-Dichlorobenzene	50.0	45.7		ug/L		91	70 - 130	2	30
1,4-Dichlorobenzene	50.0	46.1		ug/L		92	70 - 130	3	30
2-Butanone (MEK)	250	205		ug/L		82	69 - 120	7	30
2-Hexanone	250	275		ug/L		110	70 - 130	7	20
4-Methyl-2-pentanone	250	242		ug/L		97	68 - 120	7	30
Acetone	250	236		ug/L		94	67 - 120	5	30
Benzene	50.0	55.0		ug/L		110	70 - 130	1	30
Bromodichloromethane	50.0	57.1		ug/L		114	70 - 130	1	30
Bromoform	50.0	36.9		ug/L		74	69 - 129	5	30
Bromomethane	50.0	92.7		ug/L		185	28 - 192	1	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-805207/5
Matrix: Water
Analysis Batch: 805207

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon disulfide	50.0	49.5		ug/L		99	70 - 130	2	30
Carbon tetrachloride	50.0	51.5		ug/L		103	70 - 130	0	30
Chlorobenzene	50.0	47.5		ug/L		95	70 - 130	0	30
Chloroethane	50.0	76.6		ug/L		153	31 - 213	3	30
Chloroform	50.0	57.8		ug/L		116	70 - 130	0	30
Chloromethane	50.0	41.7		ug/L		83	59 - 127	1	30
cis-1,2-Dichloroethene	50.0	56.7		ug/L		113	70 - 130	2	30
cis-1,3-Dichloropropene	50.0	58.3		ug/L		117	70 - 130	3	20
Cyclohexane	50.0	52.8		ug/L		106	23 - 175	1	30
Dibromochloromethane	50.0	48.9		ug/L		98	70 - 130	4	30
Dichlorodifluoromethane	50.0	53.8		ug/L		108	70 - 130	4	40
Ethylbenzene	50.0	48.0		ug/L		96	70 - 130	0	20
Isopropylbenzene	50.0	48.4		ug/L		97	70 - 130	1	30
m,p-Xylenes	50.0	49.2		ug/L		98	70 - 130	1	30
Methyl acetate	100	104		ug/L		104	67 - 120	5	30
Methyl tert-butyl ether	50.0	50.3		ug/L		101	70 - 130	7	30
Methylene Chloride	50.0	55.4		ug/L		111	70 - 130	2	30
o-Xylene	50.0	48.8		ug/L		98	70 - 130	2	30
Styrene	50.0	49.5		ug/L		99	70 - 130	1	30
Tetrachloroethene	50.0	48.7		ug/L		97	70 - 130	0	30
Toluene	50.0	55.7		ug/L		111	70 - 130	1	30
trans-1,2-Dichloroethene	50.0	54.4		ug/L		109	70 - 130	0	30
trans-1,3-Dichloropropene	50.0	53.6		ug/L		107	70 - 130	2	30
Trichloroethene	50.0	51.1		ug/L		102	70 - 130	1	30
Trichlorofluoromethane	50.0	95.9	J3	ug/L		192	63 - 142	1	30
Vinyl chloride	50.0	47.0		ug/L		94	66 - 129	2	30
Xylenes, Total	100	98.0		ug/L		98	70 - 130	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*129*	*J1*	*60 - 124*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
Dibromofluoromethane (Surr)	*114*		*70 - 130*
Toluene-d8 (Surr)	*112*		*70 - 130*

Lab Sample ID: 670-29236-6 MS
Matrix: Water
Analysis Batch: 805207

Client Sample ID: LC34-DPT1010-038.0-20231023
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	42	U	50.0	54.9		ug/L		110	70 - 130
1,1,2,2-Tetrachloroethane	80	U	50.0	48.7		ug/L		97	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	46	U	50.0	45.9		ug/L		92	63 - 141
1,1,2-Trichloroethane	64	U	50.0	57.8		ug/L		116	70 - 130
1,1-Dichloroethane	66	U	50.0	57.6		ug/L		115	70 - 130
1,1-Dichloroethene	66	U	50.0	46.9		ug/L		94	70 - 130
1,2,4-Trichlorobenzene	110	U	50.0	38.9		ug/L		78	70 - 130
1,2-Dibromo-3-Chloropropane	360	U J3	50.0	36.8		ug/L		74	70 - 130
1,2-Dibromoethane (EDB)	66	U	50.0	56.4		ug/L		113	70 - 130

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 670-29236-6 MS
Matrix: Water
Analysis Batch: 805207

Client Sample ID: LC34-DPT1010-038.0-20231023
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichlorobenzene	62	U	50.0	46.2		ug/L		92	70 - 130
1,2-Dichloroethane	50	U	50.0	60.1		ug/L		120	70 - 130
1,2-Dichloropropane	44	U	50.0	55.6		ug/L		111	70 - 130
1,3-Dichlorobenzene	62	U	50.0	45.5		ug/L		91	70 - 130
1,4-Dichlorobenzene	62	U	50.0	46.3		ug/L		93	70 - 130
2-Butanone (MEK)	1300	U	250	200		ug/L		80	69 - 120
2-Hexanone	640	U	250	292		ug/L		117	70 - 130
4-Methyl-2-pentanone	540	U	250	250		ug/L		100	68 - 120
Acetone	740	U	250	213		ug/L		85	67 - 120
Benzene	54	U	50.0	54.5		ug/L		109	70 - 130
Bromodichloromethane	50	U	50.0	58.4		ug/L		117	70 - 130
Bromoform	120	U	50.0	37.2		ug/L		74	69 - 129
Bromomethane	740	U J3	50.0	97.6	J3	ug/L		195	28 - 192
Carbon disulfide	86	U	50.0	50.3		ug/L		101	70 - 130
Carbon tetrachloride	60	U	50.0	51.1		ug/L		102	70 - 130
Chlorobenzene	30	U	50.0	46.9		ug/L		94	70 - 130
Chloroethane	920	U	50.0	82.4		ug/L		165	31 - 213
Chloroform	54	U	50.0	57.6		ug/L		115	70 - 130
Chloromethane	110	U	50.0	40.1		ug/L		80	59 - 127
cis-1,2-Dichloroethene	20000	J3	50.0	193	J3	ug/L		-4020 1	70 - 130
cis-1,3-Dichloropropene	52	U	50.0	55.4		ug/L		111	70 - 130
Cyclohexane	56	U	50.0	51.6		ug/L		103	23 - 175
Dibromochloromethane	78	U	50.0	49.2		ug/L		98	70 - 130
Dichlorodifluoromethane	72	U	50.0	49.9		ug/L		100	70 - 130
Ethylbenzene	40	U	50.0	48.0		ug/L		96	70 - 130
Isopropylbenzene	52	U	50.0	48.3		ug/L		97	70 - 130
m,p-Xylenes	98	U	50.0	49.1		ug/L		98	70 - 130
Methyl acetate	640	U	100	102		ug/L		102	67 - 120
Methyl tert-butyl ether	160	U	50.0	47.6		ug/L		95	70 - 130
Methylene Chloride	640	U	50.0	54.8		ug/L		110	70 - 130
o-Xylene	52	U	50.0	48.6		ug/L		97	70 - 130
Styrene	54	U	50.0	49.3		ug/L		99	70 - 130
Tetrachloroethene	70	U	50.0	48.7		ug/L		97	70 - 130
Toluene	50	U	50.0	55.1		ug/L		110	70 - 130
trans-1,2-Dichloroethene	400	J3	50.0	56.7	J3	ug/L		-678	70 - 130
trans-1,3-Dichloropropene	46	U	50.0	53.3		ug/L		107	70 - 130
Trichloroethene	40	U	50.0	50.6		ug/L		101	70 - 130
Trichlorofluoromethane	66	U J3	50.0	94.1	J3	ug/L		188	63 - 142
Vinyl chloride	5100	J3	50.0	77.4	J3	ug/L		-1004 2	66 - 129
Xylenes, Total	46	U	100	97.7		ug/L		98	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*129*	*J1*	*60 - 124*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
Dibromofluoromethane (Surr)	*114*		*70 - 130*
Toluene-d8 (Surr)	*112*		*70 - 130*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 670-29236-6 MSD
Matrix: Water
Analysis Batch: 805207

Client Sample ID: LC34-DPT1010-038.0-20231023
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	42	U	50.0	55.5		ug/L		111	70 - 130	1	30
1,1,2,2-Tetrachloroethane	80	U	50.0	50.5		ug/L		101	70 - 130	4	30
1,1,2-Trichloro-1,2,2-trifluoroethane	46	U	50.0	54.0		ug/L		108	63 - 141	16	30
1,1,2-Trichloroethane	64	U	50.0	59.5		ug/L		119	70 - 130	3	30
1,1-Dichloroethane	66	U	50.0	57.6		ug/L		115	70 - 130	0	30
1,1-Dichloroethene	66	U	50.0	55.4		ug/L		111	70 - 130	17	20
1,2,4-Trichlorobenzene	110	U	50.0	40.2		ug/L		80	70 - 130	3	30
1,2-Dibromo-3-Chloropropane	360	U J3	50.0	37.4		ug/L		75	70 - 130	2	30
1,2-Dibromoethane (EDB)	66	U	50.0	58.9		ug/L		118	70 - 130	4	30
1,2-Dichlorobenzene	62	U	50.0	46.2		ug/L		92	70 - 130	0	30
1,2-Dichloroethane	50	U	50.0	61.1		ug/L		122	70 - 130	2	50
1,2-Dichloropropane	44	U	50.0	55.7		ug/L		111	70 - 130	0	20
1,3-Dichlorobenzene	62	U	50.0	45.3		ug/L		91	70 - 130	0	30
1,4-Dichlorobenzene	62	U	50.0	46.5		ug/L		93	70 - 130	0	30
2-Butanone (MEK)	1300	U	250	206		ug/L		82	69 - 120	3	30
2-Hexanone	640	U	250	310		ug/L		124	70 - 130	6	20
4-Methyl-2-pentanone	540	U	250	262		ug/L		105	68 - 120	5	30
Acetone	740	U	250	238		ug/L		95	67 - 120	11	30
Benzene	54	U	50.0	54.5		ug/L		109	70 - 130	0	30
Bromodichloromethane	50	U	50.0	57.8		ug/L		116	70 - 130	1	30
Bromoform	120	U	50.0	37.7		ug/L		75	69 - 129	1	30
Bromomethane	740	U J3	50.0	92.0		ug/L		184	28 - 192	6	30
Carbon disulfide	86	U	50.0	49.6		ug/L		99	70 - 130	1	30
Carbon tetrachloride	60	U	50.0	51.0		ug/L		102	70 - 130	0	30
Chlorobenzene	30	U	50.0	47.7		ug/L		95	70 - 130	2	30
Chloroethane	920	U	50.0	76.4		ug/L		153	31 - 213	7	30
Chloroform	54	U	50.0	58.8		ug/L		118	70 - 130	2	30
Chloromethane	110	U	50.0	41.6		ug/L		83	59 - 127	4	30
cis-1,2-Dichloroethene	20000	J3	50.0	196	J3	ug/L		-40196	70 - 130	1	30
cis-1,3-Dichloropropene	52	U	50.0	57.0		ug/L		114	70 - 130	3	20
Cyclohexane	56	U	50.0	51.1		ug/L		102	23 - 175	1	30
Dibromochloromethane	78	U	50.0	49.3		ug/L		99	70 - 130	0	30
Dichlorodifluoromethane	72	U	50.0	50.6		ug/L		101	70 - 130	1	40
Ethylbenzene	40	U	50.0	47.7		ug/L		95	70 - 130	1	20
Isopropylbenzene	52	U	50.0	48.2		ug/L		96	70 - 130	0	30
m,p-Xylenes	98	U	50.0	48.6		ug/L		97	70 - 130	1	30
Methyl acetate	640	U	100	109		ug/L		109	67 - 120	7	30
Methyl tert-butyl ether	160	U	50.0	49.6		ug/L		99	70 - 130	4	30
Methylene Chloride	640	U	50.0	55.5		ug/L		111	70 - 130	1	30
o-Xylene	52	U	50.0	48.7		ug/L		97	70 - 130	0	30
Styrene	54	U	50.0	50.1		ug/L		100	70 - 130	2	30
Tetrachloroethene	70	U	50.0	47.6		ug/L		95	70 - 130	2	30
Toluene	50	U	50.0	55.3		ug/L		111	70 - 130	0	30
trans-1,2-Dichloroethene	400	J3	50.0	57.3	J3	ug/L		-676	70 - 130	1	30
trans-1,3-Dichloropropene	46	U	50.0	53.5		ug/L		107	70 - 130	0	30
Trichloroethene	40	U	50.0	50.8		ug/L		102	70 - 130	1	30
Trichlorofluoromethane	66	U J3	50.0	94.8	J3	ug/L		190	63 - 142	1	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 670-29236-6 MSD
Matrix: Water
Analysis Batch: 805207

Client Sample ID: LC34-DPT1010-038.0-20231023
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Vinyl chloride	5100	J3	50.0	79.2	J3	ug/L		-1003 9	66 - 129	2	30
Xylenes, Total	46	U	100	97.3		ug/L		97	70 - 130	0	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*132*	*J1*	*60 - 124*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*117*		*70 - 130*
Toluene-d8 (Surr)	*113*		*70 - 130*

Lab Sample ID: MB 680-805311/11
Matrix: Water
Analysis Batch: 805311

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/30/23 15:38	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/30/23 15:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/30/23 15:38	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/30/23 15:38	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/30/23 15:38	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/30/23 15:38	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/30/23 15:38	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/30/23 15:38	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/30/23 15:38	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/30/23 15:38	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/30/23 15:38	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/30/23 15:38	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/30/23 15:38	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/30/23 15:38	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/30/23 15:38	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/30/23 15:38	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/30/23 15:38	1
Acetone	3.7	U	10	3.7	ug/L			10/30/23 15:38	1
Benzene	0.27	U	1.0	0.27	ug/L			10/30/23 15:38	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/30/23 15:38	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/30/23 15:38	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/30/23 15:38	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/30/23 15:38	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/30/23 15:38	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/30/23 15:38	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/30/23 15:38	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/30/23 15:38	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/30/23 15:38	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/30/23 15:38	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/30/23 15:38	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/30/23 15:38	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/30/23 15:38	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/30/23 15:38	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/30/23 15:38	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-805311/11
Matrix: Water
Analysis Batch: 805311

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/30/23 15:38	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/30/23 15:38	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/30/23 15:38	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/30/23 15:38	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/30/23 15:38	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/30/23 15:38	1
Styrene	0.27	U	1.0	0.27	ug/L			10/30/23 15:38	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/30/23 15:38	1
Toluene	0.25	U	1.0	0.25	ug/L			10/30/23 15:38	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/30/23 15:38	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/30/23 15:38	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/30/23 15:38	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/30/23 15:38	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/30/23 15:38	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/30/23 15:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*83*		*60 - 124*		*10/30/23 15:38*	*1*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*		*10/30/23 15:38*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*10/30/23 15:38*	*1*
Toluene-d8 (Surr)	*109*		*70 - 130*		*10/30/23 15:38*	*1*

Lab Sample ID: LCS 680-805311/6
Matrix: Water
Analysis Batch: 805311

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	46.5		ug/L		93	70 - 130
1,1,2,2-Tetrachloroethane	50.0	56.1		ug/L		112	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	53.8		ug/L		108	63 - 141
1,1,2-Trichloroethane	50.0	47.7		ug/L		95	70 - 130
1,1-Dichloroethane	50.0	53.9		ug/L		108	70 - 130
1,1-Dichloroethene	50.0	45.3		ug/L		91	70 - 130
1,2,4-Trichlorobenzene	50.0	54.4		ug/L		109	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	48.2		ug/L		96	70 - 130
1,2-Dibromoethane (EDB)	50.0	47.0		ug/L		94	70 - 130
1,2-Dichlorobenzene	50.0	54.2		ug/L		108	70 - 130
1,2-Dichloroethane	50.0	47.8		ug/L		96	70 - 130
1,2-Dichloropropane	50.0	52.1		ug/L		104	70 - 130
1,3-Dichlorobenzene	50.0	54.3		ug/L		109	70 - 130
1,4-Dichlorobenzene	50.0	53.8		ug/L		108	70 - 130
2-Butanone (MEK)	250	253		ug/L		101	69 - 120
2-Hexanone	250	279		ug/L		112	70 - 130
4-Methyl-2-pentanone	250	258		ug/L		103	68 - 120
Acetone	250	246		ug/L		98	67 - 120
Benzene	50.0	54.1		ug/L		108	70 - 130
Bromodichloromethane	50.0	44.6		ug/L		89	70 - 130
Bromoform	50.0	50.0		ug/L		100	69 - 129

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-805311/6
Matrix: Water
Analysis Batch: 805311

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromomethane	50.0	52.7		ug/L		105	28 - 192
Carbon disulfide	50.0	51.5		ug/L		103	70 - 130
Carbon tetrachloride	50.0	49.3		ug/L		99	70 - 130
Chlorobenzene	50.0	51.0		ug/L		102	70 - 130
Chloroethane	50.0	43.6		ug/L		87	31 - 213
Chloroform	50.0	49.3		ug/L		99	70 - 130
Chloromethane	50.0	50.4		ug/L		101	59 - 127
cis-1,2-Dichloroethene	50.0	50.9		ug/L		102	70 - 130
cis-1,3-Dichloropropene	50.0	49.3		ug/L		99	70 - 130
Cyclohexane	50.0	55.3		ug/L		111	23 - 175
Dibromochloromethane	50.0	46.8		ug/L		94	70 - 130
Dichlorodifluoromethane	50.0	56.6		ug/L		113	70 - 130
Ethylbenzene	50.0	53.2		ug/L		106	70 - 130
Isopropylbenzene	50.0	52.5		ug/L		105	70 - 130
m,p-Xylenes	50.0	52.6		ug/L		105	70 - 130
Methyl acetate	100	88.6		ug/L		89	67 - 120
Methyl tert-butyl ether	50.0	46.8		ug/L		94	70 - 130
Methylene Chloride	50.0	46.4		ug/L		93	70 - 130
o-Xylene	50.0	55.0		ug/L		110	70 - 130
Styrene	50.0	51.4		ug/L		103	70 - 130
Tetrachloroethene	50.0	48.1		ug/L		96	70 - 130
Toluene	50.0	51.8		ug/L		104	70 - 130
trans-1,2-Dichloroethene	50.0	53.6		ug/L		107	70 - 130
trans-1,3-Dichloropropene	50.0	52.7		ug/L		105	70 - 130
Trichloroethene	50.0	45.8		ug/L		92	70 - 130
Trichlorofluoromethane	50.0	42.9		ug/L		86	63 - 142
Vinyl chloride	50.0	45.2		ug/L		90	66 - 129
Xylenes, Total	100	108		ug/L		108	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
Dibromofluoromethane (Surr)	*98*		*70 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*

Lab Sample ID: LCSD 680-805311/7
Matrix: Water
Analysis Batch: 805311

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	50.0	47.3		ug/L		95	70 - 130	2	30
1,1,2,2-Tetrachloroethane	50.0	56.6		ug/L		113	70 - 130	1	30
1,1,2-Trichloro-1,2,2-trifluoroetha ne	50.0	55.2		ug/L		110	63 - 141	3	30
1,1,2-Trichloroethane	50.0	46.6		ug/L		93	70 - 130	2	30
1,1-Dichloroethane	50.0	55.1		ug/L		110	70 - 130	2	30
1,1-Dichloroethene	50.0	55.2		ug/L		110	70 - 130	20	20
1,2,4-Trichlorobenzene	50.0	54.7		ug/L		109	70 - 130	1	30
1,2-Dibromo-3-Chloropropane	50.0	49.8		ug/L		100	70 - 130	3	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-805311/7
Matrix: Water
Analysis Batch: 805311

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromoethane (EDB)			50.0	48.8		ug/L		98	70 - 130	4	30
1,2-Dichlorobenzene			50.0	54.9		ug/L		110	70 - 130	1	30
1,2-Dichloroethane			50.0	48.8		ug/L		98	70 - 130	2	50
1,2-Dichloropropane			50.0	53.8		ug/L		108	70 - 130	3	20
1,3-Dichlorobenzene			50.0	53.7		ug/L		107	70 - 130	1	30
1,4-Dichlorobenzene			50.0	52.4		ug/L		105	70 - 130	3	30
2-Butanone (MEK)			250	269		ug/L		107	69 - 120	6	30
2-Hexanone			250	282		ug/L		113	70 - 130	1	20
4-Methyl-2-pentanone			250	256		ug/L		102	68 - 120	1	30
Acetone			250	251		ug/L		101	67 - 120	2	30
Benzene			50.0	53.3		ug/L		107	70 - 130	2	30
Bromodichloromethane			50.0	44.3		ug/L		89	70 - 130	1	30
Bromoform			50.0	50.3		ug/L		101	69 - 129	1	30
Bromomethane			50.0	51.0		ug/L		102	28 - 192	3	30
Carbon disulfide			50.0	52.0		ug/L		104	70 - 130	1	30
Carbon tetrachloride			50.0	47.6		ug/L		95	70 - 130	4	30
Chlorobenzene			50.0	50.6		ug/L		101	70 - 130	1	30
Chloroethane			50.0	44.4		ug/L		89	31 - 213	2	30
Chloroform			50.0	49.2		ug/L		98	70 - 130	0	30
Chloromethane			50.0	50.8		ug/L		102	59 - 127	1	30
cis-1,2-Dichloroethene			50.0	49.0		ug/L		98	70 - 130	4	30
cis-1,3-Dichloropropene			50.0	48.4		ug/L		97	70 - 130	2	20
Cyclohexane			50.0	56.5		ug/L		113	23 - 175	2	30
Dibromochloromethane			50.0	47.5		ug/L		95	70 - 130	1	30
Dichlorodifluoromethane			50.0	58.4		ug/L		117	70 - 130	3	40
Ethylbenzene			50.0	51.8		ug/L		104	70 - 130	3	20
Isopropylbenzene			50.0	50.6		ug/L		101	70 - 130	4	30
m,p-Xylenes			50.0	52.9		ug/L		106	70 - 130	1	30
Methyl acetate			100	99.8		ug/L		100	67 - 120	12	30
Methyl tert-butyl ether			50.0	48.3		ug/L		97	70 - 130	3	30
Methylene Chloride			50.0	46.8		ug/L		94	70 - 130	1	30
o-Xylene			50.0	53.6		ug/L		107	70 - 130	3	30
Styrene			50.0	50.9		ug/L		102	70 - 130	1	30
Tetrachloroethene			50.0	46.0		ug/L		92	70 - 130	4	30
Toluene			50.0	48.1		ug/L		96	70 - 130	8	30
trans-1,2-Dichloroethene			50.0	55.9		ug/L		112	70 - 130	4	30
trans-1,3-Dichloropropene			50.0	53.5		ug/L		107	70 - 130	1	30
Trichloroethene			50.0	46.9		ug/L		94	70 - 130	2	30
Trichlorofluoromethane			50.0	42.3		ug/L		85	63 - 142	1	30
Vinyl chloride			50.0	47.4		ug/L		95	66 - 129	5	30
Xylenes, Total			100	107		ug/L		107	70 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
Dibromofluoromethane (Surr)	*100*		*70 - 130*
Toluene-d8 (Surr)	*97*		*70 - 130*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-805493/9
Matrix: Water
Analysis Batch: 805493

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/31/23 11:43	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/31/23 11:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/31/23 11:43	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/31/23 11:43	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/31/23 11:43	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/31/23 11:43	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/31/23 11:43	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/31/23 11:43	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/31/23 11:43	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/31/23 11:43	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/31/23 11:43	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/31/23 11:43	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/31/23 11:43	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/31/23 11:43	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/31/23 11:43	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/31/23 11:43	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/31/23 11:43	1
Acetone	3.7	U	10	3.7	ug/L			10/31/23 11:43	1
Benzene	0.27	U	1.0	0.27	ug/L			10/31/23 11:43	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/31/23 11:43	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/31/23 11:43	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/31/23 11:43	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/31/23 11:43	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/31/23 11:43	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/31/23 11:43	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/31/23 11:43	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/31/23 11:43	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/31/23 11:43	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/31/23 11:43	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/31/23 11:43	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/31/23 11:43	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/31/23 11:43	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/31/23 11:43	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/31/23 11:43	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/31/23 11:43	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/31/23 11:43	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/31/23 11:43	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/31/23 11:43	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/31/23 11:43	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/31/23 11:43	1
Styrene	0.27	U	1.0	0.27	ug/L			10/31/23 11:43	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/31/23 11:43	1
Toluene	0.25	U	1.0	0.25	ug/L			10/31/23 11:43	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/31/23 11:43	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/31/23 11:43	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/31/23 11:43	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/31/23 11:43	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/31/23 11:43	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-805493/9
Matrix: Water
Analysis Batch: 805493

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/31/23 11:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*72*		*60 - 124*		*10/31/23 11:43*	*1*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*		*10/31/23 11:43*	*1*
Dibromofluoromethane (Surr)	*76*		*70 - 130*		*10/31/23 11:43*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*10/31/23 11:43*	*1*

Lab Sample ID: LCS 680-805493/5
Matrix: Water
Analysis Batch: 805493

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	52.3		ug/L		105	70 - 130
1,1,2,2-Tetrachloroethane	50.0	53.6		ug/L		107	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	41.6		ug/L		83	63 - 141
1,1,2-Trichloroethane	50.0	56.8		ug/L		114	70 - 130
1,1-Dichloroethane	50.0	50.7		ug/L		101	70 - 130
1,1-Dichloroethene	50.0	41.7		ug/L		83	70 - 130
1,2,4-Trichlorobenzene	50.0	53.5		ug/L		107	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	53.5		ug/L		107	70 - 130
1,2-Dibromoethane (EDB)	50.0	57.0		ug/L		114	70 - 130
1,2-Dichlorobenzene	50.0	51.2		ug/L		102	70 - 130
1,2-Dichloroethane	50.0	50.4		ug/L		101	70 - 130
1,2-Dichloropropane	50.0	52.5		ug/L		105	70 - 130
1,3-Dichlorobenzene	50.0	51.3		ug/L		103	70 - 130
1,4-Dichlorobenzene	50.0	50.1		ug/L		100	70 - 130
2-Butanone (MEK)	250	269		ug/L		108	69 - 120
2-Hexanone	250	323		ug/L		129	70 - 130
4-Methyl-2-pentanone	250	297		ug/L		119	68 - 120
Acetone	250	309	J3	ug/L		124	67 - 120
Benzene	50.0	50.3		ug/L		101	70 - 130
Bromodichloromethane	50.0	56.8		ug/L		114	70 - 130
Bromoform	50.0	44.3		ug/L		89	69 - 129
Bromomethane	50.0	34.6		ug/L		69	28 - 192
Carbon disulfide	50.0	43.0		ug/L		86	70 - 130
Carbon tetrachloride	50.0	46.4		ug/L		93	70 - 130
Chlorobenzene	50.0	50.7		ug/L		101	70 - 130
Chloroethane	50.0	33.4		ug/L		67	31 - 213
Chloroform	50.0	50.3		ug/L		101	70 - 130
Chloromethane	50.0	44.2		ug/L		88	59 - 127
cis-1,2-Dichloroethene	50.0	50.2		ug/L		100	70 - 130
cis-1,3-Dichloropropene	50.0	50.0		ug/L		100	70 - 130
Cyclohexane	50.0	46.8		ug/L		94	23 - 175
Dibromochloromethane	50.0	51.5		ug/L		103	70 - 130
Dichlorodifluoromethane	50.0	43.2		ug/L		86	70 - 130
Ethylbenzene	50.0	50.1		ug/L		100	70 - 130
Isopropylbenzene	50.0	52.0		ug/L		104	70 - 130

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-805493/5
Matrix: Water
Analysis Batch: 805493

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
m,p-Xylenes	50.0	50.9		ug/L		102	70 - 130
Methyl acetate	100	85.3		ug/L		85	67 - 120
Methyl tert-butyl ether	50.0	52.4		ug/L		105	70 - 130
Methylene Chloride	50.0	51.2		ug/L		102	70 - 130
o-Xylene	50.0	51.5		ug/L		103	70 - 130
Styrene	50.0	52.1		ug/L		104	70 - 130
Tetrachloroethene	50.0	57.8		ug/L		116	70 - 130
Toluene	50.0	57.2		ug/L		114	70 - 130
trans-1,2-Dichloroethene	50.0	49.7		ug/L		99	70 - 130
trans-1,3-Dichloropropene	50.0	52.7		ug/L		105	70 - 130
Trichloroethene	50.0	54.8		ug/L		110	70 - 130
Trichlorofluoromethane	50.0	47.5		ug/L		95	63 - 142
Vinyl chloride	50.0	41.7		ug/L		83	66 - 129
Xylenes, Total	100	102		ug/L		102	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
Dibromofluoromethane (Surr)	*97*		*70 - 130*
Toluene-d8 (Surr)	*94*		*70 - 130*

Lab Sample ID: LCSD 680-805493/6
Matrix: Water
Analysis Batch: 805493

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	50.0	50.0		ug/L		100	70 - 130	4	30
1,1,2,2-Tetrachloroethane	50.0	54.5		ug/L		109	70 - 130	2	30
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	50.7		ug/L		101	63 - 141	20	30
1,1,2-Trichloroethane	50.0	51.3		ug/L		103	70 - 130	10	30
1,1-Dichloroethane	50.0	48.2		ug/L		96	70 - 130	5	30
1,1-Dichloroethene	50.0	44.9		ug/L		90	70 - 130	7	20
1,2,4-Trichlorobenzene	50.0	49.4		ug/L		99	70 - 130	8	30
1,2-Dibromo-3-Chloropropane	50.0	51.1		ug/L		102	70 - 130	5	30
1,2-Dibromoethane (EDB)	50.0	49.9		ug/L		100	70 - 130	13	30
1,2-Dichlorobenzene	50.0	50.8		ug/L		102	70 - 130	1	30
1,2-Dichloroethane	50.0	48.7		ug/L		97	70 - 130	3	50
1,2-Dichloropropane	50.0	48.4		ug/L		97	70 - 130	8	20
1,3-Dichlorobenzene	50.0	51.1		ug/L		102	70 - 130	0	30
1,4-Dichlorobenzene	50.0	50.1		ug/L		100	70 - 130	0	30
2-Butanone (MEK)	250	278		ug/L		111	69 - 120	3	30
2-Hexanone	250	274		ug/L		109	70 - 130	16	20
4-Methyl-2-pentanone	250	270		ug/L		108	68 - 120	10	30
Acetone	250	312	J3	ug/L		125	67 - 120	1	30
Benzene	50.0	50.0		ug/L		100	70 - 130	1	30
Bromodichloromethane	50.0	52.0		ug/L		104	70 - 130	9	30
Bromoform	50.0	47.1		ug/L		94	69 - 129	6	30
Bromomethane	50.0	35.0		ug/L		70	28 - 192	1	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-805493/6
Matrix: Water
Analysis Batch: 805493

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon disulfide	50.0	40.0		ug/L		80	70 - 130	7	30
Carbon tetrachloride	50.0	44.1		ug/L		88	70 - 130	5	30
Chlorobenzene	50.0	50.7		ug/L		101	70 - 130	0	30
Chloroethane	50.0	31.4		ug/L		63	31 - 213	6	30
Chloroform	50.0	49.6		ug/L		99	70 - 130	1	30
Chloromethane	50.0	42.6		ug/L		85	59 - 127	4	30
cis-1,2-Dichloroethene	50.0	48.6		ug/L		97	70 - 130	3	30
cis-1,3-Dichloropropene	50.0	46.4		ug/L		93	70 - 130	7	20
Cyclohexane	50.0	45.6		ug/L		91	23 - 175	3	30
Dibromochloromethane	50.0	45.5		ug/L		91	70 - 130	12	30
Dichlorodifluoromethane	50.0	42.0		ug/L		84	70 - 130	3	40
Ethylbenzene	50.0	49.8		ug/L		100	70 - 130	1	20
Isopropylbenzene	50.0	50.9		ug/L		102	70 - 130	2	30
m,p-Xylenes	50.0	50.9		ug/L		102	70 - 130	0	30
Methyl acetate	100	87.7		ug/L		88	67 - 120	3	30
Methyl tert-butyl ether	50.0	54.4		ug/L		109	70 - 130	4	30
Methylene Chloride	50.0	49.5		ug/L		99	70 - 130	3	30
o-Xylene	50.0	51.3		ug/L		103	70 - 130	0	30
Styrene	50.0	52.1		ug/L		104	70 - 130	0	30
Tetrachloroethene	50.0	48.9		ug/L		98	70 - 130	17	30
Toluene	50.0	50.0		ug/L		100	70 - 130	14	30
trans-1,2-Dichloroethene	50.0	49.3		ug/L		99	70 - 130	1	30
trans-1,3-Dichloropropene	50.0	46.7		ug/L		93	70 - 130	12	30
Trichloroethene	50.0	49.4		ug/L		99	70 - 130	10	30
Trichlorofluoromethane	50.0	45.3		ug/L		91	63 - 142	5	30
Vinyl chloride	50.0	41.0		ug/L		82	66 - 129	2	30
Xylenes, Total	100	102		ug/L		102	70 - 130	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*90*		*60 - 124*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*
Dibromofluoromethane (Surr)	*94*		*70 - 130*
Toluene-d8 (Surr)	*97*		*70 - 130*

Lab Sample ID: MB 680-805498/7
Matrix: Water
Analysis Batch: 805498

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/31/23 11:58	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/31/23 11:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/31/23 11:58	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/31/23 11:58	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/31/23 11:58	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/31/23 11:58	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/31/23 11:58	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/31/23 11:58	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/31/23 11:58	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-805498/7
Matrix: Water
Analysis Batch: 805498

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/31/23 11:58	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/31/23 11:58	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/31/23 11:58	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/31/23 11:58	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/31/23 11:58	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/31/23 11:58	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/31/23 11:58	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/31/23 11:58	1
Acetone	3.7	U	10	3.7	ug/L			10/31/23 11:58	1
Benzene	0.27	U	1.0	0.27	ug/L			10/31/23 11:58	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/31/23 11:58	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/31/23 11:58	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/31/23 11:58	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/31/23 11:58	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/31/23 11:58	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/31/23 11:58	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/31/23 11:58	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/31/23 11:58	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/31/23 11:58	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/31/23 11:58	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/31/23 11:58	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/31/23 11:58	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/31/23 11:58	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/31/23 11:58	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/31/23 11:58	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/31/23 11:58	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/31/23 11:58	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/31/23 11:58	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/31/23 11:58	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/31/23 11:58	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/31/23 11:58	1
Styrene	0.27	U	1.0	0.27	ug/L			10/31/23 11:58	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/31/23 11:58	1
Toluene	0.25	U	1.0	0.25	ug/L			10/31/23 11:58	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/31/23 11:58	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/31/23 11:58	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/31/23 11:58	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/31/23 11:58	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/31/23 11:58	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/31/23 11:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*60 - 124*		*10/31/23 11:58*	*1*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*10/31/23 11:58*	*1*
Dibromofluoromethane (Surr)	*93*		*70 - 130*		*10/31/23 11:58*	*1*
Toluene-d8 (Surr)	*114*		*70 - 130*		*10/31/23 11:58*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-805498/3
Matrix: Water
Analysis Batch: 805498

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	51.3		ug/L		103	70 - 130
1,1,2,2-Tetrachloroethane	50.0	51.1		ug/L		102	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	51.3		ug/L		103	63 - 141
1,1,2-Trichloroethane	50.0	51.0		ug/L		102	70 - 130
1,1-Dichloroethane	50.0	49.4		ug/L		99	70 - 130
1,1-Dichloroethene	50.0	54.3		ug/L		109	70 - 130
1,2,4-Trichlorobenzene	50.0	46.8		ug/L		94	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	37.6		ug/L		75	70 - 130
1,2-Dibromoethane (EDB)	50.0	50.3		ug/L		101	70 - 130
1,2-Dichlorobenzene	50.0	47.1		ug/L		94	70 - 130
1,2-Dichloroethane	50.0	53.7		ug/L		107	70 - 130
1,2-Dichloropropane	50.0	49.8		ug/L		100	70 - 130
1,3-Dichlorobenzene	50.0	50.1		ug/L		100	70 - 130
1,4-Dichlorobenzene	50.0	49.7		ug/L		99	70 - 130
2-Butanone (MEK)	250	258		ug/L		103	69 - 120
2-Hexanone	250	271		ug/L		108	70 - 130
4-Methyl-2-pentanone	250	255		ug/L		102	68 - 120
Acetone	250	256		ug/L		103	67 - 120
Benzene	50.0	52.5		ug/L		105	70 - 130
Bromodichloromethane	50.0	50.0		ug/L		100	70 - 130
Bromoform	50.0	57.9		ug/L		116	69 - 129
Bromomethane	50.0	46.8		ug/L		94	28 - 192
Carbon disulfide	50.0	53.6		ug/L		107	70 - 130
Carbon tetrachloride	50.0	53.7		ug/L		107	70 - 130
Chlorobenzene	50.0	49.3		ug/L		99	70 - 130
Chloroethane	50.0	46.3		ug/L		93	31 - 213
Chloroform	50.0	54.4		ug/L		109	70 - 130
Chloromethane	50.0	47.2		ug/L		94	59 - 127
cis-1,2-Dichloroethene	50.0	54.6		ug/L		109	70 - 130
cis-1,3-Dichloropropene	50.0	50.3		ug/L		101	70 - 130
Cyclohexane	50.0	55.6		ug/L		111	23 - 175
Dibromochloromethane	50.0	50.3		ug/L		101	70 - 130
Dichlorodifluoromethane	50.0	45.3		ug/L		91	70 - 130
Ethylbenzene	50.0	49.6		ug/L		99	70 - 130
Isopropylbenzene	50.0	52.8		ug/L		106	70 - 130
m,p-Xylenes	50.0	50.5		ug/L		101	70 - 130
Methyl acetate	100	98.3		ug/L		98	67 - 120
Methyl tert-butyl ether	50.0	50.8		ug/L		102	70 - 130
Methylene Chloride	50.0	50.7		ug/L		101	70 - 130
o-Xylene	50.0	51.5		ug/L		103	70 - 130
Styrene	50.0	53.5		ug/L		107	70 - 130
Tetrachloroethene	50.0	52.6		ug/L		105	70 - 130
Toluene	50.0	50.5		ug/L		101	70 - 130
trans-1,2-Dichloroethene	50.0	54.2		ug/L		108	70 - 130
trans-1,3-Dichloropropene	50.0	48.8		ug/L		98	70 - 130
Trichloroethene	50.0	50.5		ug/L		101	70 - 130
Trichlorofluoromethane	50.0	43.3		ug/L		87	63 - 142
Vinyl chloride	50.0	44.7		ug/L		89	66 - 129

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-805498/3
Matrix: Water
Analysis Batch: 805498

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Xylenes, Total			100	102		ug/L		102	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 124*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
Dibromofluoromethane (Surr)	*105*		*70 - 130*
Toluene-d8 (Surr)	*97*		*70 - 130*

Lab Sample ID: LCSD 680-805498/4
Matrix: Water
Analysis Batch: 805498

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane			50.0	49.3		ug/L		99	70 - 130	4	30
1,1,2,2-Tetrachloroethane			50.0	56.8		ug/L		114	70 - 130	11	30
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	50.2		ug/L		100	63 - 141	2	30
1,1,2-Trichloroethane			50.0	57.3		ug/L		115	70 - 130	12	30
1,1-Dichloroethane			50.0	53.6		ug/L		107	70 - 130	8	30
1,1-Dichloroethene			50.0	52.3		ug/L		105	70 - 130	4	20
1,2,4-Trichlorobenzene			50.0	46.7		ug/L		93	70 - 130	0	30
1,2-Dibromo-3-Chloropropane			50.0	42.9		ug/L		86	70 - 130	13	30
1,2-Dibromoethane (EDB)			50.0	56.2		ug/L		112	70 - 130	11	30
1,2-Dichlorobenzene			50.0	47.9		ug/L		96	70 - 130	2	30
1,2-Dichloroethane			50.0	56.5		ug/L		113	70 - 130	5	50
1,2-Dichloropropane			50.0	53.8		ug/L		108	70 - 130	8	20
1,3-Dichlorobenzene			50.0	50.9		ug/L		102	70 - 130	2	30
1,4-Dichlorobenzene			50.0	50.0		ug/L		100	70 - 130	0	30
2-Butanone (MEK)			250	347	J3	ug/L		139	69 - 120	29	30
2-Hexanone			250	337	J3	ug/L		135	70 - 130	22	20
4-Methyl-2-pentanone			250	316	J3	ug/L		127	68 - 120	21	30
Acetone			250	320	J3	ug/L		128	67 - 120	22	30
Benzene			50.0	52.1		ug/L		104	70 - 130	1	30
Bromodichloromethane			50.0	56.4		ug/L		113	70 - 130	12	30
Bromoform			50.0	65.5	J3	ug/L		131	69 - 129	12	30
Bromomethane			50.0	48.1		ug/L		96	28 - 192	3	30
Carbon disulfide			50.0	55.8		ug/L		112	70 - 130	4	30
Carbon tetrachloride			50.0	51.3		ug/L		103	70 - 130	5	30
Chlorobenzene			50.0	49.9		ug/L		100	70 - 130	1	30
Chloroethane			50.0	47.5		ug/L		95	31 - 213	3	30
Chloroform			50.0	55.6		ug/L		111	70 - 130	2	30
Chloromethane			50.0	47.1		ug/L		94	59 - 127	0	30
cis-1,2-Dichloroethene			50.0	60.5		ug/L		121	70 - 130	10	30
cis-1,3-Dichloropropene			50.0	55.6		ug/L		111	70 - 130	10	20
Cyclohexane			50.0	51.1		ug/L		102	23 - 175	8	30
Dibromochloromethane			50.0	54.4		ug/L		109	70 - 130	8	30
Dichlorodifluoromethane			50.0	43.7		ug/L		87	70 - 130	4	40
Ethylbenzene			50.0	49.8		ug/L		100	70 - 130	0	20
Isopropylbenzene			50.0	55.1		ug/L		110	70 - 130	4	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-805498/4
Matrix: Water
Analysis Batch: 805498

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m,p-Xylenes			50.0	50.1		ug/L		100	70 - 130	1	30
Methyl acetate			100	120		ug/L		120	67 - 120	20	30
Methyl tert-butyl ether			50.0	58.0		ug/L		116	70 - 130	13	30
Methylene Chloride			50.0	53.0		ug/L		106	70 - 130	4	30
o-Xylene			50.0	54.3		ug/L		109	70 - 130	5	30
Styrene			50.0	56.7		ug/L		113	70 - 130	6	30
Tetrachloroethene			50.0	53.1		ug/L		106	70 - 130	1	30
Toluene			50.0	52.6		ug/L		105	70 - 130	4	30
trans-1,2-Dichloroethene			50.0	56.0		ug/L		112	70 - 130	3	30
trans-1,3-Dichloropropene			50.0	52.7		ug/L		105	70 - 130	8	30
Trichloroethene			50.0	51.0		ug/L		102	70 - 130	1	30
Trichlorofluoromethane			50.0	41.6		ug/L		83	63 - 142	4	30
Vinyl chloride			50.0	44.0		ug/L		88	66 - 129	1	30
Xylenes, Total			100	104		ug/L		104	70 - 130	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*109*		*60 - 124*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
Dibromofluoromethane (Surr)	*105*		*70 - 130*
Toluene-d8 (Surr)	*97*		*70 - 130*

GC/MS VOA

Analysis Batch: 805207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-29236-1	LC34-DPT1010-008.0-20231023	Total/NA	Water	8260D	
670-29236-2	LC34-DPT1010-013.0-20231023	Total/NA	Water	8260D	
670-29236-3	LC34-DPT1010-018.0-20231023	Total/NA	Water	8260D	
670-29236-4	LC34-DPT1010-025.0-20231023	Total/NA	Water	8260D	
670-29236-5	LC34-DPT1010-034.0-20231023	Total/NA	Water	8260D	
670-29236-6	LC34-DPT1010-038.0-20231023	Total/NA	Water	8260D	
670-29236-7	LC34-DPT0962-043.0-20231023	Total/NA	Water	8260D	
670-29236-8	LC34-DPT0962-038.0-20231023	Total/NA	Water	8260D	
670-29236-9	LC34-DPT0961-043.0-20231023	Total/NA	Water	8260D	
670-29236-10	LC34-DPT0961-038.0-20231023	Total/NA	Water	8260D	
MB 680-805207/8	Method Blank	Total/NA	Water	8260D	
LCS 680-805207/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-805207/5	Lab Control Sample Dup	Total/NA	Water	8260D	
670-29236-6 MS	LC34-DPT1010-038.0-20231023	Total/NA	Water	8260D	
670-29236-6 MSD	LC34-DPT1010-038.0-20231023	Total/NA	Water	8260D	

Analysis Batch: 805311

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-29236-11	LC34-DPT0960-043.0-20231023	Total/NA	Water	8260D	
670-29236-12	LC34-DPT0960-038.0-20231023	Total/NA	Water	8260D	
670-29236-13	LC34-DPT0959-043.0-20231023	Total/NA	Water	8260D	
670-29236-14	LC34-DPT0959-038.0-20231023	Total/NA	Water	8260D	
670-29236-15	LC34-DPT0958-043.0-20231023	Total/NA	Water	8260D	
670-29236-16	LC34-DPT0958-038.0-20231023	Total/NA	Water	8260D	
670-29236-17	LC34-DPT0963-043.0-20231024	Total/NA	Water	8260D	
670-29236-19	LC34-DPT0965-043.0-20231024	Total/NA	Water	8260D	
670-29236-23	LC34-DPT0967-043.0-20231024	Total/NA	Water	8260D	
MB 680-805311/11	Method Blank	Total/NA	Water	8260D	
LCS 680-805311/6	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-805311/7	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 805493

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-29236-26	LC34-DPT0969-038.0-20231024	Total/NA	Water	8260D	
MB 680-805493/9	Method Blank	Total/NA	Water	8260D	
LCS 680-805493/5	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-805493/6	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 805498

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-29236-18	LC34-DPT0963-038.0-20231024	Total/NA	Water	8260D	
670-29236-20	LC34-DPT0965-038.0-20231024	Total/NA	Water	8260D	
670-29236-21	LC34-DPT0966-043.0-20231024	Total/NA	Water	8260D	
670-29236-22	LC34-DPT0966-038.0-20231024	Total/NA	Water	8260D	
670-29236-24	LC34-DPT0967-038.0-20231024	Total/NA	Water	8260D	
670-29236-25	LC34-DPT0969-043.0-20231024	Total/NA	Water	8260D	
670-29236-27	LC34-DPT0970-043.0-20231024	Total/NA	Water	8260D	
670-29236-28	LC34-DPT0970-038.0-20231024	Total/NA	Water	8260D	
670-29236-29	LC34-DPT0994-043.-20231024	Total/NA	Water	8260D	
670-29236-30	LC34-DPT0994-038.0-20231024	Total/NA	Water	8260D	
MB 680-805498/7	Method Blank	Total/NA	Water	8260D	

GC/MS VOA (Continued)

Analysis Batch: 805498 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 680-805498/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-805498/4	Lab Control Sample Dup	Total/NA	Water	8260D	

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-29236-1

Client Sample ID: LC34-DPT1010-008.0-20231023
Lab Sample ID: 670-29236-1
Date Collected: 10/23/23 09:35
Matrix: Water
Date Received: 10/25/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	805207	P1C	EET SAV	10/29/23 16:36

Client Sample ID: LC34-DPT1010-013.0-20231023
Lab Sample ID: 670-29236-2
Date Collected: 10/23/23 09:50
Matrix: Water
Date Received: 10/25/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	805207	P1C	EET SAV	10/29/23 16:55

Client Sample ID: LC34-DPT1010-018.0-20231023
Lab Sample ID: 670-29236-3
Date Collected: 10/23/23 10:05
Matrix: Water
Date Received: 10/25/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	805207	P1C	EET SAV	10/29/23 17:14

Client Sample ID: LC34-DPT1010-025.0-20231023
Lab Sample ID: 670-29236-4
Date Collected: 10/23/23 10:20
Matrix: Water
Date Received: 10/25/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	805207	P1C	EET SAV	10/29/23 17:33

Client Sample ID: LC34-DPT1010-034.0-20231023
Lab Sample ID: 670-29236-5
Date Collected: 10/23/23 10:40
Matrix: Water
Date Received: 10/25/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	805207	P1C	EET SAV	10/29/23 17:52

Client Sample ID: LC34-DPT1010-038.0-20231023
Lab Sample ID: 670-29236-6
Date Collected: 10/23/23 11:00
Matrix: Water
Date Received: 10/25/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		200	805207	P1C	EET SAV	10/29/23 19:31

Client Sample ID: LC34-DPT0962-043.0-20231023
Lab Sample ID: 670-29236-7
Date Collected: 10/23/23 12:05
Matrix: Water
Date Received: 10/25/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	805207	P1C	EET SAV	10/29/23 18:11

Lab Chronicle

Client: Tetra Tech, Inc.
Job ID: 670-29236-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT0962-038.0-20231023
Lab Sample ID: 670-29236-8
Date Collected: 10/23/23 12:25
Matrix: Water
Date Received: 10/25/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		5	805207	P1C	EET SAV	10/29/23 18:51

Client Sample ID: LC34-DPT0961-043.0-20231023
Lab Sample ID: 670-29236-9
Date Collected: 10/23/23 13:05
Matrix: Water
Date Received: 10/25/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	805207	P1C	EET SAV	10/29/23 18:30

Client Sample ID: LC34-DPT0961-038.0-20231023
Lab Sample ID: 670-29236-10
Date Collected: 10/23/23 13:20
Matrix: Water
Date Received: 10/25/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		5	805207	P1C	EET SAV	10/29/23 19:12

Client Sample ID: LC34-DPT0960-043.0-20231023
Lab Sample ID: 670-29236-11
Date Collected: 10/23/23 14:05
Matrix: Water
Date Received: 10/25/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	805311	UI	EET SAV	10/30/23 15:57

Client Sample ID: LC34-DPT0960-038.0-20231023
Lab Sample ID: 670-29236-12
Date Collected: 10/23/23 14:20
Matrix: Water
Date Received: 10/25/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		25	805311	UI	EET SAV	10/30/23 18:09

Client Sample ID: LC34-DPT0959-043.0-20231023
Lab Sample ID: 670-29236-13
Date Collected: 10/23/23 15:00
Matrix: Water
Date Received: 10/25/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	805311	UI	EET SAV	10/30/23 17:50

Client Sample ID: LC34-DPT0959-038.0-20231023
Lab Sample ID: 670-29236-14
Date Collected: 10/23/23 15:15
Matrix: Water
Date Received: 10/25/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		10	805311	UI	EET SAV	10/30/23 18:28

Lab Chronicle

Client: Tetra Tech, Inc.
Job ID: 670-29236-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT0958-043.0-20231023
Lab Sample ID: 670-29236-15
Date Collected: 10/23/23 15:55
Matrix: Water
Date Received: 10/25/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		2	805311	UI	EET SAV	10/30/23 18:47

Client Sample ID: LC34-DPT0958-038.0-20231023
Lab Sample ID: 670-29236-16
Date Collected: 10/23/23 16:10
Matrix: Water
Date Received: 10/25/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		10	805311	UI	EET SAV	10/30/23 17:13

Client Sample ID: LC34-DPT0963-043.0-20231024
Lab Sample ID: 670-29236-17
Date Collected: 10/24/23 07:55
Matrix: Water
Date Received: 10/25/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	805311	UI	EET SAV	10/30/23 19:25

Client Sample ID: LC34-DPT0963-038.0-20231024
Lab Sample ID: 670-29236-18
Date Collected: 10/24/23 08:10
Matrix: Water
Date Received: 10/25/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		25	805498	MLL	EET SAV	10/31/23 16:38

Client Sample ID: LC34-DPT0965-043.0-20231024
Lab Sample ID: 670-29236-19
Date Collected: 10/24/23 08:55
Matrix: Water
Date Received: 10/25/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	805311	UI	EET SAV	10/30/23 19:44

Client Sample ID: LC34-DPT0965-038.0-20231024
Lab Sample ID: 670-29236-20
Date Collected: 10/24/23 09:10
Matrix: Water
Date Received: 10/25/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		10	805498	MLL	EET SAV	10/31/23 17:01

Client Sample ID: LC34-DPT0966-043.0-20231024
Lab Sample ID: 670-29236-21
Date Collected: 10/24/23 09:50
Matrix: Water
Date Received: 10/25/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		5	805498	MLL	EET SAV	10/31/23 17:48

Lab Chronicle

Client: Tetra Tech, Inc.
Job ID: 670-29236-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT0966-038.0-20231024
Lab Sample ID: 670-29236-22
Date Collected: 10/24/23 10:05
Matrix: Water
Date Received: 10/25/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		10	805498	MLL	EET SAV	10/31/23 17:25

Client Sample ID: LC34-DPT0967-043.0-20231024
Lab Sample ID: 670-29236-23
Date Collected: 10/24/23 10:45
Matrix: Water
Date Received: 10/25/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	805311	UI	EET SAV	10/30/23 20:03

Client Sample ID: LC34-DPT0967-038.0-20231024
Lab Sample ID: 670-29236-24
Date Collected: 10/24/23 11:00
Matrix: Water
Date Received: 10/25/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		2	805498	MLL	EET SAV	10/31/23 18:11

Client Sample ID: LC34-DPT0969-043.0-20231024
Lab Sample ID: 670-29236-25
Date Collected: 10/24/23 11:50
Matrix: Water
Date Received: 10/25/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	805498	MLL	EET SAV	10/31/23 15:28

Client Sample ID: LC34-DPT0969-038.0-20231024
Lab Sample ID: 670-29236-26
Date Collected: 10/24/23 12:05
Matrix: Water
Date Received: 10/25/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		100	805493	MLL	EET SAV	10/31/23 18:23

Client Sample ID: LC34-DPT0970-043.0-20231024
Lab Sample ID: 670-29236-27
Date Collected: 10/24/23 12:45
Matrix: Water
Date Received: 10/25/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	805498	MLL	EET SAV	10/31/23 15:51

Client Sample ID: LC34-DPT0970-038.0-20231024
Lab Sample ID: 670-29236-28
Date Collected: 10/24/23 13:00
Matrix: Water
Date Received: 10/25/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		5	805498	MLL	EET SAV	10/31/23 14:18

Lab Chronicle

Client: Tetra Tech, Inc.
Job ID: 670-29236-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT0994-043.-20231024
Lab Sample ID: 670-29236-29
Date Collected: 10/24/23 13:40
Matrix: Water
Date Received: 10/25/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		5	805498	MLL	EET SAV	10/31/23 14:41

Client Sample ID: LC34-DPT0994-038.0-20231024
Lab Sample ID: 670-29236-30
Date Collected: 10/24/23 13:55
Matrix: Water
Date Received: 10/25/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		25	805498	MLL	EET SAV	10/31/23 15:05

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: Tetra Tech, Inc.
Job ID: 670-29236-1
Project/Site: NASA KSC LC34 DPT

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87052	06-30-24

Method Summary

Client: Tetra Tech, Inc.
Job ID: 670-29236-1
Project/Site: NASA KSC LC34 DPT

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET SAV
5030B	Purge and Trap	SW846	EET SAV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Sample Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-29236-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
670-29236-1	LC34-DPT1010-008.0-20231023	Water	10/23/23 09:35	10/25/23 08:00
670-29236-2	LC34-DPT1010-013.0-20231023	Water	10/23/23 09:50	10/25/23 08:00
670-29236-3	LC34-DPT1010-018.0-20231023	Water	10/23/23 10:05	10/25/23 08:00
670-29236-4	LC34-DPT1010-025.0-20231023	Water	10/23/23 10:20	10/25/23 08:00
670-29236-5	LC34-DPT1010-034.0-20231023	Water	10/23/23 10:40	10/25/23 08:00
670-29236-6	LC34-DPT1010-038.0-20231023	Water	10/23/23 11:00	10/25/23 08:00
670-29236-7	LC34-DPT0962-043.0-20231023	Water	10/23/23 12:05	10/25/23 08:00
670-29236-8	LC34-DPT0962-038.0-20231023	Water	10/23/23 12:25	10/25/23 08:00
670-29236-9	LC34-DPT0961-043.0-20231023	Water	10/23/23 13:05	10/25/23 08:00
670-29236-10	LC34-DPT0961-038.0-20231023	Water	10/23/23 13:20	10/25/23 08:00
670-29236-11	LC34-DPT0960-043.0-20231023	Water	10/23/23 14:05	10/25/23 08:00
670-29236-12	LC34-DPT0960-038.0-20231023	Water	10/23/23 14:20	10/25/23 08:00
670-29236-13	LC34-DPT0959-043.0-20231023	Water	10/23/23 15:00	10/25/23 08:00
670-29236-14	LC34-DPT0959-038.0-20231023	Water	10/23/23 15:15	10/25/23 08:00
670-29236-15	LC34-DPT0958-043.0-20231023	Water	10/23/23 15:55	10/25/23 08:00
670-29236-16	LC34-DPT0958-038.0-20231023	Water	10/23/23 16:10	10/25/23 08:00
670-29236-17	LC34-DPT0963-043.0-20231024	Water	10/24/23 07:55	10/25/23 08:00
670-29236-18	LC34-DPT0963-038.0-20231024	Water	10/24/23 08:10	10/25/23 08:00
670-29236-19	LC34-DPT0965-043.0-20231024	Water	10/24/23 08:55	10/25/23 08:00
670-29236-20	LC34-DPT0965-038.0-20231024	Water	10/24/23 09:10	10/25/23 08:00
670-29236-21	LC34-DPT0966-043.0-20231024	Water	10/24/23 09:50	10/25/23 08:00
670-29236-22	LC34-DPT0966-038.0-20231024	Water	10/24/23 10:05	10/25/23 08:00
670-29236-23	LC34-DPT0967-043.0-20231024	Water	10/24/23 10:45	10/25/23 08:00
670-29236-24	LC34-DPT0967-038.0-20231024	Water	10/24/23 11:00	10/25/23 08:00
670-29236-25	LC34-DPT0969-043.0-20231024	Water	10/24/23 11:50	10/25/23 08:00
670-29236-26	LC34-DPT0969-038.0-20231024	Water	10/24/23 12:05	10/25/23 08:00
670-29236-27	LC34-DPT0970-043.0-20231024	Water	10/24/23 12:45	10/25/23 08:00
670-29236-28	LC34-DPT0970-038.0-20231024	Water	10/24/23 13:00	10/25/23 08:00
670-29236-29	LC34-DPT0994-043.-20231024	Water	10/24/23 13:40	10/25/23 08:00
670-29236-30	LC34-DPT0994-038.0-20231024	Water	10/24/23 13:55	10/25/23 08:00

Tetra Tech, Inc.

CHAIN OF CUSTODY | NUMBER No. 3790 | PAGE 1 OF 3

PROJECT NO: 112G08985	FACILITY: KSC-LC34	PROJECT MANAGER Mark Sonnet	PHONE NUMBER (412) 921-8622	LABORATORY NAME AND CONTACT: Eurofins — Kaitlin Dylnicki
SAMPLERS (SIGNATURE) - Chuck Sorden		FIELD OPERATIONS LEADER Chuck Sorden	PHONE NUMBER (321) 591-7580	ADDRESS 481 Newburyport Ave.
		CARRIER/WAYBILL NUMBER		CITY, STATE Altamonte Springs, FL

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2023	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)		COMMENTS
									G	G	
									PRESERVATIVE USED		HCl/4°C	4°C	
									TYPE OF ANALYSIS		62COD - (MOD) NASA LC34 Custom List	62COD - (MOD) NASA LC34 Custom List	
10/23	0935	LC34-DPT1010-008.0-20231023	09	6	10	GW	G	4	X	X	
	0950	LC34-DPT1010-013.0-20231023		11	15						
	1005	LC34-DPT1010-018.0-20231023		16	20						
	1020	LC34-DPT1010-025.0-20231023		23	27						
	1040	LC34-DPT1010-034.0-20231023		32	36						
	1100	LC34-DPT1010-038.0-20231023	09	36	40						
	1205	LC34-DPT0962-043.0-20231023	51	41	45						
	1225	LC34-DPT0962-038.0-20231023	51	36	40						
	1305	LC34-DPT0961-043.0-20231023	47	41	45						
	1320	LC34-DPT0961-038.0-20231023	47	36	40						
	1405	LC34-DPT0960-043.0-20231023	43	41	45						
	1420	LC34-DPT0960-038.0-20231023	43	36	40						
10/23	1500	LC34-DPT0959-043.0-20231023	37	41	45	GW	G	4	X	X	

670-29236 Chain of Custody

1. RELINQUISHED BY	DATE 10/24/23	TIME 1415	1. RECEIVED BY ML	DATE 10/25/23	TIME 8:00
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS 0.7/0.5

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY) 4/02R

596° FORM NO. TtNUS-0072

Tetra Tech, Inc.

CHAIN OF CUSTODY | NUMBER No. 3792 | PAGE 2 OF 3

PROJECT NO: 112G08985	FACILITY: KSC-LC34	PROJECT MANAGER Mark Sonner	PHONE NUMBER (412) 921-8622	LABORATORY NAME AND CONTACT: Eurofins — Kaitlin Dylnicki
SAMPLERS (SIGNATURE) - Chuck Sorden		FIELD OPERATIONS LEADER Chuck Sorden	PHONE NUMBER (321) 591-7580	ADDRESS 481 Newburyport Ave.
		CARRIER/WAYBILL NUMBER		CITY, STATE Altamonte Springs, FL

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2023	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)										COMMENTS
									G	G									
									HCl/4°C	4°C									
		TYPE OF ANALYSIS							8260D-(MOD) NASA LC34 Custom List	8260D-(MOD) NASA LC34 Custom List									
10/23	1515	LC34-DPT0959-038.0-20231023	37	36	40	GW	G	4	X	X									
↓	1555	LC34-DPT0958-043.0-20231023	31	41	45	↓	↓	↓	↓	↓									
10/23	1610	LC34-DPT0958-038.0-20231023	31	36	40														
10/24	0755	LC34-DPT0963-043.0-20231024	42	41	45														
↓	0810	LC34-DPT0963-038.0-20231024	42	36	40														
	0855	LC34-DPT0965-043.0-20231024	36	41	45														
	0910	LC34-DPT0965-038.0-20231024	36	36	40														
	0950	LC34-DPT0966-043.0-20231024	30	41	45														
	1005	LC34-DPT0966-038.0-20231024	30	36	40														
	1045	LC34-DPT0967-043.0-20231024	24	41	45														
	1100	LC34-DPT0967-038.0-20231024	24	36	40														
	1150	LC34-DPT0969-043.0-20231024	10	41	45	↓	↓	↓	↓	↓									
10/24	1205	LC34-DPT0969-038.0-20231024	10	36	40	GW	G	4	X	X									

1. RELINQUISHED BY	DATE 10/24/23	TIME 1415	1. RECEIVED BY MC	DATE 10/25/23	TIME 8:00
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS 0.7 / 0.5

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

566°

Tetra Tech, Inc.

CHAIN OF CUSTODY | NUMBER No. 3793 | PAGE 3 OF 3

PROJECT NO: 112G08985	FACILITY: KSC-LC34	PROJECT MANAGER Mark Jonnet	PHONE NUMBER (412) 921-8622	LABORATORY NAME AND CONTACT: Eurofins — Kaitlin Dylnicki
SAMPLERS (SIGNATURE) — Chuck Sorden		FIELD OPERATIONS LEADER Chuck Sorden	PHONE NUMBER (321) 591-7580	ADDRESS 481 Newburyport Ave
		CARRIER/WAYBILL NUMBER		CITY, STATE Altamonte Springs, FL

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): G G
PRESERVATIVE USED: HCl/4°C 4°C

DATE YEAR 2023	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS: 8260D-(MOD) NASA LC34 Custom List	8260D-(MOD) NASA LC34 Custom List	COMMENTS
10/24	1245	LC34-DPT0970-043.0-20231024	10	41	45	GW	G	4	X	X	
1	1300	LC34-DPT0970-038.0-20231024	10	36	40	1	1	1	1	1	
1	1340	LC34-DPT0994-043.0-20231024	23A	41	45	1	1	1	1	1	
10/24	1355	LC34-DPT0994-038.0-20231024	23A	36	40	GW	G	4	X	X	

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	10/24/23	1415	1. RECEIVED BY MC	10/25/23	8:00
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS: 0.7 / 0.5

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R

FORM NO. TtNUS-0016

5960

11/6/2023

Eurofins Orlando
481 Newburyport Avenue
Altamonte Springs, FL 32701
Phone 407-339-5984 Fax 407-260-6110

Chain of Custody Record

eurofins

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Dylnicki, Kaitlin	Carrier Tracking No(s):	COC No: 670-17603 1
Client Contact: Shipping/Receiving	Phone:	E-Mail: kaitlin dylnicki@et eurofinsus com	State of Origin: Florida	Page: Page 1 of 4
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP - Florida		Job #: 670-29236-1
Address: 5102 LaRoche Avenue, ,	Due Date Requested: 11/6/2023			
City: Savannah	TAT Requested (days):			
State, Zip: GA, 31404	PO #:			
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	WO #:			
Email:	Project #: 67001156			
Project Name: NASA KSC LC34	SSOW#:			
Site:				

Analysis Requested

Preservation Codes

A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F - MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K - EDTA, L EDA, M - Hexane, N None, O - AsNaO2, P Na2O4S, Q - Na2SO3, R - Na2S2O3, S H2SO4, T - TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y Trizma, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D/5030B (MOD) NASA LC34 Custom	8260D/5030B_UP (MOD) NASA LC34 Custom	Total Number of containers	Special Instructions/Note:
			Preservation Code							
LC34-DPT1010-008 0-20231023 (670-29236-1)	10/23/23	09 35 Eastern		Water			X	X	4	use caution site high in TCE unp incase of HDSP, use caution site high in TCE UNP
LC34-DPT1010-013 0-20231023 (670-29236-2)	10/23/23	09 50 Eastern		Water			X	X	4	use caution site high in TCE unp incase of HDSP, use caution site high in TCE UNP
LC34-DPT1010-018 0-20231023 (670-29236-3)	10/23/23	10 05 Eastern		Water			X	X	4	use caution site high in TCE unp incase of HDSP, use caution site high in TCE UNP
LC34-DPT1010-025 0-20231023 (670-29236-4)	10/23/23	10 20 Eastern		Water			X	X	4	use caution site high in TCE unp incase of HDSP, use caution site high in TCE UNP
LC34-DPT1010-034 0-20231023 (670-29236-5)	10/23/23	10 40 Eastern		Water			X	X	4	use caution site high in TCE unp incase of HDSP, use caution site high in TCE UNP
LC34-DPT1010-038 0-20231023 (670-29236-6)	10/23/23	11 00 Eastern		Water			X	X	4	use caution site high in TCE unp incase of HDSP, use caution site high in TCE UNP
LC34-DPT0962-043 0-20231023 (670-29236-7)	10/23/23	12 05 Eastern		Water			X	X	4	use caution site high in TCE unp incase of HDSP, use caution site high in TCE UNP
LC34-DPT0962-038 0-20231023 (670-29236-8)	10/23/23	12 25 Eastern		Water			X	X	4	use caution site high in TCE unp incase of HDSP, use caution site high in TCE UNP
LC34-DPT0961-043 0-20231023 (670-29236-9)	10/23/23	13 05 Eastern		Water			X	X	4	use caution site high in TCE unp incase of HDSP, use caution site high in TCE UNP

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method analyte & accreditation compliance upon our subcontract laboratories This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested I, II, III, IV, Other (specify) Primary Deliverable Rank 2	Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date	Time	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	10/25 1230		Bernd Kirkland	10/26/23 1019	ETS
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No:	Cooler Temperature(s) °C and Other Remarks: 2.7, 4.1

Eurofins Orlando
481 Newburyport Avenue
Altamonte Springs, FL 32701
Phone 407-339-5984 Fax 407-260-6110

Chain of Custody Record

eurofins

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Dylnicki, Kaitlin	Carrier Tracking No(s):	COC No: 670-17603 2
Client Contact: Shipping/Receiving	Phone	E-Mail: kaitlin dylnicki@et eurofinsus com	State of Origin: Florida	Page: Page 2 of 4
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP - Florida		Job #: 670-29236-1
Address: 5102 LaRoche Avenue, ,	Due Date Requested: 11/6/2023			
City: Savannah	TAT Requested (days):			
State Zip: GA, 31404	PO #:			
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	WO #:			
Email	Project #: 67001156			
Project Name: NASA KSC LC34	SSOW#:			
Site				

Preservation Codes

A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H - Ascorbic Acid, I Ice, J - DI Water, K EDTA, L EDA, M Hexane, N None, O - AsNaO2, P - Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T - TSP Dodecahydrate, U Acetone, V - MCAA, W pH 4-5, Y - Trizma, Z other (specify)

Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D/5030B (MOD) NASA LC34 Custom	8260D/5030B_UP (MOD) NASA LC34 Custom	Total Number of containers	Special Instructions/Note:
			Preservation Code							
LC34-DPT0961-038 0-20231023 (670-29236-10)	10/23/23	13 20 Eastern		Water			X	X	4	use caution site high in TCE unp incase of HDSP, use caution site high in TCE UNP
LC34-DPT0960-043 0-20231023 (670-29236-11)	10/23/23	14 05 Eastern		Water			X	X	4	use caution site high in TCE unp incase of HDSP, use caution site high in TCE UNP
LC34-DPT0960-038 0-20231023 (670-29236-12)	10/23/23	14 20 Eastern		Water			X	X	4	use caution site high in TCE unp incase of HDSP, use caution site high in TCE UNP
LC34-DPT0959-043 0-20231023 (670-29236-13)	10/23/23	15 00 Eastern		Water			X	X	4	use caution site high in TCE unp incase of HDSP, use caution site high in TCE UNP
LC34-DPT0959-038 0-20231023 (670-29236-14)	10/23/23	15 15 Eastern		Water			X	X	4	use caution site high in TCE unp incase of HDSP, use caution site high in TCE UNP
LC34-DPT0958-043 0-20231023 (670-29236-15)	10/23/23	15 55 Eastern		Water			X	X	4	use caution site high in TCE unp incase of HDSP, use caution site high in TCE UNP
LC34-DPT0958-038 0-20231023 (670-29236-16)	10/23/23	16 10 Eastern		Water			X	X	4	use caution site high in TCE unp incase of HDSP, use caution site high in TCE UNP
LC34-DPT0963-043 0-20231023 (670-29236-17)	10/24/23	07 55 Eastern		Water			X	X	4	use caution site high in TCE unp incase of HDSP, use caution site high in TCE UNP
LC34-DPT0963-038 0-20231023 (670-29236-18)	10/24/23	08 10 Eastern		Water			X	X	4	use caution site high in TCE unp incase of HDSP, use caution site high in TCE UNP

Note Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method analyte & accreditation compliance upon our subcontract laboratories This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately If all requested accreditations are current to date return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)***
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested I, II, III, IV, Other (specify) Primary Deliverable Rank 2	Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date	Time	Method of Shipment:

Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company
	10/25 1230		Paul Kubler	10/26/23 1019	ETS
Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company
Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks: 2.7, 4.1

Eurofins Orlando
481 Newburyport Avenue
Altamonte Springs, FL 32701
Phone 407-339-5984 Fax 407-260-6110

Chain of Custody Record

eurofins

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Dylnicki, Kaitlin	Carrier Tracking No(s):	COC No: 670-17603 3
Client Contact: Shipping/Receiving	Phone:	E-Mail: kaitlin dylnicki@et eurofinsus com	State of Origin: Florida	Page: Page 3 of 4
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP - Florida		Job #: 670-29236-1
Address: 5102 LaRoche Avenue, ,	Due Date Requested: 11/6/2023			
City: Savannah	TAT Requested (days):			
State Zip: GA, 31404				
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	PO #:			
Email:	WO #:			
Project Name: NASA KSC LC34	Project #: 67001156			
Site:	SSOW#:			

Preservation Codes:

A	HCL	M	Hexane
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Y	Trizma
		Z	other (specify)

Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D/5030B (MOD) NASA LC34 Custom	8260D/5030B_UP (MOD) NASA LC34 Custom	Total Number of containers	Special Instructions/Note:
			Preservation Code							
LC34-DPT0965-043 0-20231023 (670-29236-19)	10/24/23	08 55 Eastern		Water			X	X	4	use caution site high in TCE unp incase of HDSP, use caution site high in TCE UNP
LC34-DPT0965-038 0-20231023 (670-29236-20)	10/24/23	09 10 Eastern		Water			X	X	4	use caution site high in TCE unp incase of HDSP, use caution site high in TCE UNP
LC34-DPT0966-043 0-20231023 (670-29236-21)	10/24/23	09 50 Eastern		Water			X	X	4	use caution site high in TCE unp incase of HDSP, use caution site high in TCE UNP
LC34-DPT0966-038 0-20231023 (670-29236-22)	10/24/23	10 05 Eastern		Water			X	X	4	use caution site high in TCE unp incase of HDSP, use caution site high in TCE UNP
LC34-DPT0967-043 0-20231023 (670-29236-23)	10/24/23	10 45 Eastern		Water			X	X	4	use caution site high in TCE unp incase of HDSP, use caution site high in TCE UNP
LC34-DPT0967-038 0-20231023 (670-29236-24)	10/24/23	11 00 Eastern		Water			X	X	4	use caution site high in TCE unp incase of HDSP, use caution site high in TCE UNP
LC34-DPT0969-043 0-20231023 (670-29236-25)	10/24/23	11 50 Eastern		Water			X	X	4	use caution site high in TCE unp incase of HDSP, use caution site high in TCE UNP
LC34-DPT0969-038 0-20231023 (670-29236-26)	10/24/23	12 05 Eastern		Water			X	X	4	use caution site high in TCE unp incase of HDSP, use caution site high in TCE UNP
LC34-DPT0970-043 0-20231023 (670-29236-27)	10/24/23	12 45 Eastern		Water			X	X	4	use caution site high in TCE unp incase of HDSP, use caution site high in TCE UNP

Note Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast LLC attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested I, II, III, IV, Other (specify) Primary Deliverable Rank 2	Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date	Time	Method of Shipment:

Relinquished by:	Date/Time	Company	Received by:	Date/Time:	Company
	10/25 1230		Bernd Kirkland	10/26/23 1019	ETS
Relinquished by:	Date/Time	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact	Custody Seal No	Cooler Temperature(s) °C and Other Remarks
Δ Yes Δ No		2.7, 4.1

Eurofins Orlando
481 Newburyport Avenue
Altamonte Springs, FL 32701
Phone 407-339-5984 Fax 407-260-6110

Chain of Custody Record

eurofins

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Dylnicki, Kaitlin	Carrier Tracking No(s):	COC No: 670-17603 4
Client Contact: Shipping/Receiving	Phone	E-Mail: kaitlin dylnicki@et eurofinsus com	State of Origin: Florida	Page: Page 4 of 4
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP - Florida		Job #: 670-29236-1
Address: 5102 LaRoche Avenue, ,	Due Date Requested: 11/6/2023			
City: Savannah	TAT Requested (days):			
State Zip: GA, 31404				
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	PO #:			
Email	WO #:			
Project Name: NASA KSC LC34	Project #: 67001156			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B NaOH, C Zn Acetate, D Nitric Acid, E - NaHSO4, F MeOH, G - Amchlor, H Ascorbic Acid, I Ice, J - DI Water, K EDTA, L EDA, M Hexane, N - None, O - AsNaO2, P Na2O4S, Q - Na2SO3, R Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U Acetone, V - MCAA, W pH 4-5, Y Trizma, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D/5030B (MOD) NASA LC34 Custom	8260D/5030B_UP (MOD) NASA LC34 Custom	Total Number of containers	Special Instructions/Note:
			Preservation Code							
LC34-DPT0970-038 0-20231023 (670-29236-28)	10/24/23	13 00 Eastern		Water			X	X	4	use caution site high in TCE unp incase of HDSP, use caution site high in TCE UNP
LC34-DPT0994-043 -20231023 (670-29236-29)	10/24/23	13 40 Eastern		Water			X	X	4	use caution site high in TCE unp incase of HDSP, use caution site high in TCE UNP
LC34-DPT0994-038 0-20231023 (670-29236-30)	10/24/23	13 55 Eastern		Water			X	X	4	use caution site high in TCE unp incase of HDSP, use caution site high in TCE UNP

Note: Since laboratory accreditations are subject to change Eurofins Environment Testing Southeast, LLC places the ownership of method analyte & accreditation compliance upon our subcontract laboratories This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing Southeast LLC laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately If all requested accreditations are current to date return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested I, II, III, IV, Other (specify) Primary Deliverable Rank 2	Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment.

Relinquished by:	Date/Time: 10/25 1230	Company	Received by: Bend Kirkland	Date/Time: 10/26/23 1019	Company: ETS
Relinquished by:	Date/Time	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks: 2.7, 4.1

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 670-29236-1

Login Number: 29236

List Number: 1

Creator: Clerisier, Meline

List Source: Eurofins Orlando

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.		
The cooler's custody seal, if present, is intact.		
Sample custody seals, if present, are intact.		
The cooler or samples do not appear to have been compromised or tampered with.		
Samples were received on ice.		
Cooler Temperature is acceptable.		
Cooler Temperature is recorded.		
COC is present.		
COC is filled out in ink and legible.		
COC is filled out with all pertinent information.		
Is the Field Sampler's name present on COC?		
There are no discrepancies between the containers received and the COC.		
Samples are received within Holding Time (excluding tests with immediate HTs)		
Sample containers have legible labels.		
Containers are not broken or leaking.		
Sample collection date/times are provided.		
Appropriate sample containers are used.		
Sample bottles are completely filled.		
Sample Preservation Verified.		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs		
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").		
Multiphasic samples are not present.		
Samples do not require splitting or compositing.		
Residual Chlorine Checked.		

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 670-29236-1

Login Number: 29236
List Number: 2
Creator: Kirkland, Bernard C

List Source: Eurofins Savannah
List Creation: 10/26/23 01:30 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Mark Jonnet
Tetra Tech, Inc.
Foster Plaza 7
661 Anderson Drive
Suite 200
Pittsburgh, Pennsylvania 15220-2745

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JOB DESCRIPTION

NASA KSC LC34 DPT

JOB NUMBER

670-29324-1

Eurofins Orlando
481 Newburyport Avenue
Altamonte Springs FL 32701

See page two for job notes and contact information.

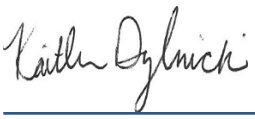
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Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization



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Authorized for release by
Kaitlin Dylnicki, Project Manager
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(407)339-5984

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Definitions/Glossary

Client: Tetra Tech, Inc.
Job ID: 670-29324-1
Project/Site: NASA KSC LC34 DPT

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J1	Estimated value; value may not be accurate. Surrogate recovery outside of criteria.
J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
U	Indicates that the compound was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 670-29324-1

Laboratory: Eurofins Orlando

Narrative

Job Narrative
Client: Tetra Tech
Client PM: Mark Jonnet
Project: NASA KSC LC34
Project Number: 112G08985
670-29324-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 10/26/2023 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.5°C

GC/MS VOA
Method 8260D: The continuing calibration verification (CCV) associated with batch 680-805498 recovered outside acceptance criteria, low biased, for 1,2-Dibromo-3-Chloropropane. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

Method 8260D: The laboratory control sample duplicate (LCSD) for analytical batch 680-805498 recovered outside control limits for the following analytes: 2-Hexanone, 4-Methyl-2-pentanone, Acetone and Bromoform. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D: The continuing calibration verification (CCV) associated with batch 680-805493 recovered outside control limits for the following analyte(s): Acetone, Bromomethane and Chloroethane . These analytes have been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260D: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for analytical batch 680-805493 recovered outside control limits for the following analyte(s): Acetone. Acetone has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-805493.

Method 8260D: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 680-805498 recovered outside control limits for the following analytes: 2-Hexanone.

Method 8260D: The laboratory control sample duplicate (LCSD) for analytical batch 680-805498 recovered outside control limits for the following analyte(s): 2-Butanone (MEK). 2-Butanone (MEK) has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260D: The following samples were diluted to bring the concentration of target analytes within the calibration range: LC34-DPT1011-018.0-20231024 (670-29324-3) and LC34-DPT1011-025.0-20231024 (670-29324-4). Elevated reporting limits (RLs) are provided.

Job ID: 670-29324-1 (Continued)

Laboratory: Eurofins Orlando (Continued)

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-805498.

Method 8260D: The continuing calibration verification (CCV) associated with batch 680-805700 recovered outside acceptance criteria, low biased, for 1,2-Dibromo-3-Chloropropane. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

Method 8260D: The laboratory control sample duplicate (LCSD) for analytical batch 680-805700 recovered outside control limits for the following analytes: 2-Butanone (MEK), 2-Hexanone, 4-Methyl-2-pentanone, Acetone and Methyl acetate. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 680-805700 recovered outside control limits for the following analytes: 2-Butanone (MEK) and 2-Hexanone.

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-805700.

Method 8260D: The laboratory control sample and The laboratory control sample duplicated (LCS/LCSD) was biased high for 1,2-Dichloroethane-d4 surrogate by 1% and 4% respectively. All other QC and sample recoveries were acceptable and within control limits, and sample target analyte recoveries were acceptable. The data has been qualified and reported.

Method 8260D: The continuing calibration verification (CCV) analyzed in batch 680-805692 was outside the method criteria for the following analyte(s): 1,2,4-Trichlorobenzene, 1,2-Dibromo-3-Chloropropane, 2-Butanone (MEK), Bromoform, Bromomethane, Chloromethane and Trichlorofluoromethane. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8260D: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 680-805692 recovered outside control limits for the following analytes: Trichlorofluoromethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D: The following samples were diluted to bring the concentration of target analytes within the calibration range: LC34-DPT1012-013.0-20231025 (670-29324-8), LC34-DPT1012-018.0-20231025 (670-29324-9) and LC34-DPT1014-018.0-20231025 (670-29324-21). Elevated reporting limits (RLs) are provided.

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-805692.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-29324-1

Client Sample ID: LC34-DPT1011-008.0-20231024 — Lab Sample ID: 670-29324-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	18		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	51		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT1011-013.0-20231024 — Lab Sample ID: 670-29324-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	17		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	86		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT1011-018.0-20231024 — Lab Sample ID: 670-29324-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	280		5.0	1.3	ug/L	5		8260D	Total/NA
Trichloroethene	6.1		5.0	1.0	ug/L	5		8260D	Total/NA
Vinyl chloride	440		5.0	2.0	ug/L	5		8260D	Total/NA

Client Sample ID: LC34-DPT1011-025.0-20231024 — Lab Sample ID: 670-29324-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	4.5	I	5.0	1.1	ug/L	5		8260D	Total/NA
1,1-Dichloroethane	3.2	I	5.0	1.7	ug/L	5		8260D	Total/NA
1,1-Dichloroethene	2.7	I	5.0	1.7	ug/L	5		8260D	Total/NA
1,2-Dichloropropane	1.8	I	5.0	1.1	ug/L	5		8260D	Total/NA
1,3-Dichlorobenzene	2.0	I	5.0	1.6	ug/L	5		8260D	Total/NA
1,4-Dichlorobenzene	1.8	I	5.0	1.6	ug/L	5		8260D	Total/NA
Bromodichloromethane	2.5	I	5.0	1.3	ug/L	5		8260D	Total/NA
Carbon tetrachloride	3.5	I	5.0	1.5	ug/L	5		8260D	Total/NA
Chloroform	2.3	I	5.0	1.4	ug/L	5		8260D	Total/NA
Chloromethane	3.4	I	5.0	2.7	ug/L	5		8260D	Total/NA
cis-1,2-Dichloroethene	460		5.0	1.3	ug/L	5		8260D	Total/NA
cis-1,3-Dichloropropene	2.6	I	5.0	1.3	ug/L	5		8260D	Total/NA
Dibromochloromethane	3.5	I	5.0	2.0	ug/L	5		8260D	Total/NA
Ethylbenzene	2.6	I	5.0	1.0	ug/L	5		8260D	Total/NA
Isopropylbenzene	2.8	I	5.0	1.3	ug/L	5		8260D	Total/NA
m,p-Xylenes	2.7	I	5.0	2.5	ug/L	5		8260D	Total/NA
o-Xylene	2.4	I	5.0	1.3	ug/L	5		8260D	Total/NA
Styrene	1.9	I	5.0	1.4	ug/L	5		8260D	Total/NA
Tetrachloroethene	2.8	I	5.0	1.8	ug/L	5		8260D	Total/NA
Toluene	3.0	I	5.0	1.3	ug/L	5		8260D	Total/NA
trans-1,2-Dichloroethene	13		5.0	1.7	ug/L	5		8260D	Total/NA
trans-1,3-Dichloropropene	3.1	I	5.0	1.2	ug/L	5		8260D	Total/NA
Trichloroethene	3.3	I	5.0	1.0	ug/L	5		8260D	Total/NA
Vinyl chloride	320		5.0	2.0	ug/L	5		8260D	Total/NA
Xylenes, Total	5.1		5.0	1.2	ug/L	5		8260D	Total/NA

Client Sample ID: LC34-DPT1011-034.0-20231024 — Lab Sample ID: 670-29324-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.96	I	2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	2.6		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	3.0		1.0	0.40	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Orlando

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-29324-1

Client Sample ID: LC34-DPT1011-038.0-20231024 — Lab Sample ID: 670-29324-6

No Detections.

Client Sample ID: LC34-DPT1012-008.0-20231025 — Lab Sample ID: 670-29324-7

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	16		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	40		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT1012-013.0-20231025 — Lab Sample ID: 670-29324-8

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	190		5.0	1.3	ug/L	5		8260D	Total/NA
Vinyl chloride	620		5.0	2.0	ug/L	5		8260D	Total/NA

Client Sample ID: LC34-DPT1012-018.0-20231025 — Lab Sample ID: 670-29324-9

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	150		5.0	1.3	ug/L	5		8260D	Total/NA
trans-1,2-Dichloroethene	2.6	I	5.0	1.7	ug/L	5		8260D	Total/NA
Vinyl chloride	890		5.0	2.0	ug/L	5		8260D	Total/NA

Client Sample ID: LC34-DPT1012-025.0-20231025 — Lab Sample ID: 670-29324-10

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.1		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	3.8		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT1012-034.0-20231025 — Lab Sample ID: 670-29324-11

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.98	I	2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	3.6		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	180		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT1012-038.0-20231025 — Lab Sample ID: 670-29324-12

No Detections.

Client Sample ID: LC34-DPT1013-008.0-20231025 — Lab Sample ID: 670-29324-13

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	11		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	38		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT1013-013.0-20231025 — Lab Sample ID: 670-29324-14

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	93		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	170		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT1013-018.0-20231025 — Lab Sample ID: 670-29324-15

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	100		1.0	0.25	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	0.75	I	1.0	0.34	ug/L	1		8260D	Total/NA
Vinyl chloride	150		1.0	0.40	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Orlando

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-29324-1

Client Sample ID: LC34-DPT1013-025.0-20231025 — Lab Sample ID: 670-29324-16

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.42	I	1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	4.1		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT1013-034.0-20231025 — Lab Sample ID: 670-29324-17

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.8		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	59		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT1013-038.0-20231025 — Lab Sample ID: 670-29324-18

No Detections.

Client Sample ID: LC34-DPT1014-008.0-20231025 — Lab Sample ID: 670-29324-19

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	10		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	35		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT1014-013.0-20231025 — Lab Sample ID: 670-29324-20

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
trans-1,2-Dichloroethene	0.52	I	1.0	0.34	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene - DL	200		2.0	0.50	ug/L	2		8260D	Total/NA
Vinyl chloride - DL	220		2.0	0.80	ug/L	2		8260D	Total/NA

Client Sample ID: LC34-DPT1014-018.0-20231025 — Lab Sample ID: 670-29324-21

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	190		2.0	0.50	ug/L	2		8260D	Total/NA
trans-1,2-Dichloroethene	3.3		2.0	0.68	ug/L	2		8260D	Total/NA
Vinyl chloride	340		2.0	0.80	ug/L	2		8260D	Total/NA

Client Sample ID: LC34-DPT1014-025.0-20231025 — Lab Sample ID: 670-29324-22

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	3.1		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	29		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT1014-034.0-20231025 — Lab Sample ID: 670-29324-23

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
trans-1,2-Dichloroethene	0.51	I	1.0	0.34	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene - DL	250		2.0	0.50	ug/L	2		8260D	Total/NA
Vinyl chloride - DL	16		2.0	0.80	ug/L	2		8260D	Total/NA

Client Sample ID: LC34-DPT1014-038.0-20231025 — Lab Sample ID: 670-29324-24

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.31	I	1.0	0.25	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-29324-1

Client Sample ID: LC34-DPT1011-008.0-20231024
Date Collected: 10/24/23 15:00
Date Received: 10/26/23 08:00

Lab Sample ID: 670-29324-1
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/31/23 12:21	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/31/23 12:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/31/23 12:21	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/31/23 12:21	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/31/23 12:21	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/31/23 12:21	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/31/23 12:21	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/31/23 12:21	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/31/23 12:21	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/31/23 12:21	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/31/23 12:21	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/31/23 12:21	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/31/23 12:21	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/31/23 12:21	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			10/31/23 12:21	1
2-Hexanone	3.2	U J3	10	3.2	ug/L			10/31/23 12:21	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			10/31/23 12:21	1
Acetone	3.7	U J3	10	3.7	ug/L			10/31/23 12:21	1
Benzene	0.27	U	1.0	0.27	ug/L			10/31/23 12:21	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/31/23 12:21	1
Bromoform	0.59	U J3	1.0	0.59	ug/L			10/31/23 12:21	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/31/23 12:21	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/31/23 12:21	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/31/23 12:21	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/31/23 12:21	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/31/23 12:21	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/31/23 12:21	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/31/23 12:21	1
cis-1,2-Dichloroethene	**18**		1.0	0.25	ug/L			10/31/23 12:21	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/31/23 12:21	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/31/23 12:21	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/31/23 12:21	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/31/23 12:21	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/31/23 12:21	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/31/23 12:21	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/31/23 12:21	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/31/23 12:21	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/31/23 12:21	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/31/23 12:21	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/31/23 12:21	1
Styrene	0.27	U	1.0	0.27	ug/L			10/31/23 12:21	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/31/23 12:21	1
Toluene	0.25	U	1.0	0.25	ug/L			10/31/23 12:21	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/31/23 12:21	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/31/23 12:21	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/31/23 12:21	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/31/23 12:21	1
Vinyl chloride	**51**		1.0	0.40	ug/L			10/31/23 12:21	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/31/23 12:21	1

Client Sample ID: LC34-DPT1011-008.0-20231024
Lab Sample ID: 670-29324-1

Date Collected: 10/24/23 15:00
Matrix: Water
Date Received: 10/26/23 08:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		60 - 124		10/31/23 12:21	1
4-Bromofluorobenzene (Surr)	94		70 - 130		10/31/23 12:21	1
Dibromofluoromethane (Surr)	92		70 - 130		10/31/23 12:21	1
Toluene-d8 (Surr)	93		70 - 130		10/31/23 12:21	1

Client Sample ID: LC34-DPT1011-013.0-20231024
Lab Sample ID: 670-29324-2

Date Collected: 10/24/23 15:15
Matrix: Water
Date Received: 10/26/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/31/23 12:45	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/31/23 12:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/31/23 12:45	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/31/23 12:45	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/31/23 12:45	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/31/23 12:45	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/31/23 12:45	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/31/23 12:45	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/31/23 12:45	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/31/23 12:45	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/31/23 12:45	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/31/23 12:45	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/31/23 12:45	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/31/23 12:45	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			10/31/23 12:45	1
2-Hexanone	3.2	U J3	10	3.2	ug/L			10/31/23 12:45	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			10/31/23 12:45	1
Acetone	3.7	U J3	10	3.7	ug/L			10/31/23 12:45	1
Benzene	0.27	U	1.0	0.27	ug/L			10/31/23 12:45	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/31/23 12:45	1
Bromoform	0.59	U J3	1.0	0.59	ug/L			10/31/23 12:45	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/31/23 12:45	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/31/23 12:45	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/31/23 12:45	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/31/23 12:45	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/31/23 12:45	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/31/23 12:45	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/31/23 12:45	1
cis-1,2-Dichloroethene	**17**		1.0	0.25	ug/L			10/31/23 12:45	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/31/23 12:45	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/31/23 12:45	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/31/23 12:45	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/31/23 12:45	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/31/23 12:45	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/31/23 12:45	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/31/23 12:45	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/31/23 12:45	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/31/23 12:45	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/31/23 12:45	1

Client Sample ID: LC34-DPT1011-013.0-20231024
Lab Sample ID: 670-29324-2

Date Collected: 10/24/23 15:15
Matrix: Water
Date Received: 10/26/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	0.26	U	1.0	0.26	ug/L			10/31/23 12:45	1
Styrene	0.27	U	1.0	0.27	ug/L			10/31/23 12:45	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/31/23 12:45	1
Toluene	0.25	U	1.0	0.25	ug/L			10/31/23 12:45	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/31/23 12:45	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/31/23 12:45	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/31/23 12:45	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/31/23 12:45	1
Vinyl chloride	**86**		1.0	0.40	ug/L			10/31/23 12:45	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/31/23 12:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*60 - 124*		*10/31/23 12:45*	*1*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*10/31/23 12:45*	*1*
Dibromofluoromethane (Surr)	*92*		*70 - 130*		*10/31/23 12:45*	*1*
Toluene-d8 (Surr)	*115*		*70 - 130*		*10/31/23 12:45*	*1*

Client Sample ID: LC34-DPT1011-018.0-20231024
Lab Sample ID: 670-29324-3

Date Collected: 10/24/23 15:30
Matrix: Water
Date Received: 10/26/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	5.0	1.1	ug/L			10/31/23 13:08	5
1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	ug/L			10/31/23 13:08	5
1,1,2-Trichloro-1,2,2-trifluoroethane	1.2	U	5.0	1.2	ug/L			10/31/23 13:08	5
1,1,2-Trichloroethane	1.6	U	5.0	1.6	ug/L			10/31/23 13:08	5
1,1-Dichloroethane	1.7	U	5.0	1.7	ug/L			10/31/23 13:08	5
1,1-Dichloroethene	1.7	U	5.0	1.7	ug/L			10/31/23 13:08	5
1,2,4-Trichlorobenzene	2.7	U	25	2.7	ug/L			10/31/23 13:08	5
1,2-Dibromo-3-Chloropropane	9.0	U	25	9.0	ug/L			10/31/23 13:08	5
1,2-Dibromoethane (EDB)	1.7	U	5.0	1.7	ug/L			10/31/23 13:08	5
1,2-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/31/23 13:08	5
1,2-Dichloroethane	1.3	U	5.0	1.3	ug/L			10/31/23 13:08	5
1,2-Dichloropropane	1.1	U	5.0	1.1	ug/L			10/31/23 13:08	5
1,3-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/31/23 13:08	5
1,4-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/31/23 13:08	5
2-Butanone (MEK)	32	U J3	50	32	ug/L			10/31/23 13:08	5
2-Hexanone	16	U J3	50	16	ug/L			10/31/23 13:08	5
4-Methyl-2-pentanone	14	U J3	50	14	ug/L			10/31/23 13:08	5
Acetone	19	U J3	50	19	ug/L			10/31/23 13:08	5
Benzene	1.4	U	5.0	1.4	ug/L			10/31/23 13:08	5
Bromodichloromethane	1.3	U	5.0	1.3	ug/L			10/31/23 13:08	5
Bromoform	3.0	U J3	5.0	3.0	ug/L			10/31/23 13:08	5
Bromomethane	19	U	25	19	ug/L			10/31/23 13:08	5
Carbon disulfide	2.2	U	10	2.2	ug/L			10/31/23 13:08	5
Carbon tetrachloride	1.5	U	5.0	1.5	ug/L			10/31/23 13:08	5
Chlorobenzene	0.75	U	5.0	0.75	ug/L			10/31/23 13:08	5
Chloroethane	23	U	25	23	ug/L			10/31/23 13:08	5
Chloroform	1.4	U	5.0	1.4	ug/L			10/31/23 13:08	5

Client Sample ID: LC34-DPT1011-018.0-20231024
Lab Sample ID: 670-29324-3

Date Collected: 10/24/23 15:30
Matrix: Water
Date Received: 10/26/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	2.7	U	5.0	2.7	ug/L			10/31/23 13:08	5
cis-1,2-Dichloroethene	**280**		5.0	1.3	ug/L			10/31/23 13:08	5
cis-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			10/31/23 13:08	5
Cyclohexane	1.4	U	5.0	1.4	ug/L			10/31/23 13:08	5
Dibromochloromethane	2.0	U	5.0	2.0	ug/L			10/31/23 13:08	5
Dichlorodifluoromethane	1.8	U	5.0	1.8	ug/L			10/31/23 13:08	5
Ethylbenzene	1.0	U	5.0	1.0	ug/L			10/31/23 13:08	5
Isopropylbenzene	1.3	U	5.0	1.3	ug/L			10/31/23 13:08	5
m,p-Xylenes	2.5	U	5.0	2.5	ug/L			10/31/23 13:08	5
Methyl acetate	16	U	25	16	ug/L			10/31/23 13:08	5
Methyl tert-butyl ether	4.1	U	25	4.1	ug/L			10/31/23 13:08	5
Methylene Chloride	16	U	25	16	ug/L			10/31/23 13:08	5
o-Xylene	1.3	U	5.0	1.3	ug/L			10/31/23 13:08	5
Styrene	1.4	U	5.0	1.4	ug/L			10/31/23 13:08	5
Tetrachloroethene	1.8	U	5.0	1.8	ug/L			10/31/23 13:08	5
Toluene	1.3	U	5.0	1.3	ug/L			10/31/23 13:08	5
trans-1,2-Dichloroethene	1.7	U	5.0	1.7	ug/L			10/31/23 13:08	5
trans-1,3-Dichloropropene	1.2	U	5.0	1.2	ug/L			10/31/23 13:08	5
Trichloroethene	**6.1**		5.0	1.0	ug/L			10/31/23 13:08	5
Trichlorofluoromethane	1.7	U	5.0	1.7	ug/L			10/31/23 13:08	5
Vinyl chloride	**440**		5.0	2.0	ug/L			10/31/23 13:08	5
Xylenes, Total	1.2	U	5.0	1.2	ug/L			10/31/23 13:08	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*		*10/31/23 13:08*	*5*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*10/31/23 13:08*	*5*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*10/31/23 13:08*	*5*
Toluene-d8 (Surr)	*103*		*70 - 130*		*10/31/23 13:08*	*5*

Client Sample ID: LC34-DPT1011-025.0-20231024
Lab Sample ID: 670-29324-4

Date Collected: 10/24/23 15:50
Matrix: Water
Date Received: 10/26/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**4.5**	**I**	5.0	1.1	ug/L			10/31/23 13:31	5
1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	ug/L			10/31/23 13:31	5
1,1,2-Trichloro-1,2,2-trifluoroethane	1.2	U	5.0	1.2	ug/L			10/31/23 13:31	5
1,1,2-Trichloroethane	1.6	U	5.0	1.6	ug/L			10/31/23 13:31	5
1,1-Dichloroethane	**3.2**	**I**	5.0	1.7	ug/L			10/31/23 13:31	5
1,1-Dichloroethene	**2.7**	**I**	5.0	1.7	ug/L			10/31/23 13:31	5
1,2,4-Trichlorobenzene	2.7	U	25	2.7	ug/L			10/31/23 13:31	5
1,2-Dibromo-3-Chloropropane	9.0	U	25	9.0	ug/L			10/31/23 13:31	5
1,2-Dibromoethane (EDB)	1.7	U	5.0	1.7	ug/L			10/31/23 13:31	5
1,2-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			10/31/23 13:31	5
1,2-Dichloroethane	1.3	U	5.0	1.3	ug/L			10/31/23 13:31	5
1,2-Dichloropropane	**1.8**	**I**	5.0	1.1	ug/L			10/31/23 13:31	5
1,3-Dichlorobenzene	**2.0**	**I**	5.0	1.6	ug/L			10/31/23 13:31	5
1,4-Dichlorobenzene	**1.8**	**I**	5.0	1.6	ug/L			10/31/23 13:31	5
2-Butanone (MEK)	32	U J3	50	32	ug/L			10/31/23 13:31	5

Client Sample ID: LC34-DPT1011-025.0-20231024
Lab Sample ID: 670-29324-4

Date Collected: 10/24/23 15:50
Matrix: Water
Date Received: 10/26/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	16	U J3	50	16	ug/L			10/31/23 13:31	5
4-Methyl-2-pentanone	14	U J3	50	14	ug/L			10/31/23 13:31	5
Acetone	19	U J3	50	19	ug/L			10/31/23 13:31	5
Benzene	1.4	U	5.0	1.4	ug/L			10/31/23 13:31	5
Bromodichloromethane	**2.5**	**I**	5.0	1.3	ug/L			10/31/23 13:31	5
Bromoform	3.0	U J3	5.0	3.0	ug/L			10/31/23 13:31	5
Bromomethane	19	U	25	19	ug/L			10/31/23 13:31	5
Carbon disulfide	2.2	U	10	2.2	ug/L			10/31/23 13:31	5
Carbon tetrachloride	**3.5**	**I**	5.0	1.5	ug/L			10/31/23 13:31	5
Chlorobenzene	0.75	U	5.0	0.75	ug/L			10/31/23 13:31	5
Chloroethane	23	U	25	23	ug/L			10/31/23 13:31	5
Chloroform	**2.3**	**I**	5.0	1.4	ug/L			10/31/23 13:31	5
Chloromethane	**3.4**	**I**	5.0	2.7	ug/L			10/31/23 13:31	5
cis-1,2-Dichloroethene	**460**		5.0	1.3	ug/L			10/31/23 13:31	5
cis-1,3-Dichloropropene	**2.6**	**I**	5.0	1.3	ug/L			10/31/23 13:31	5
Cyclohexane	1.4	U	5.0	1.4	ug/L			10/31/23 13:31	5
Dibromochloromethane	**3.5**	**I**	5.0	2.0	ug/L			10/31/23 13:31	5
Dichlorodifluoromethane	1.8	U	5.0	1.8	ug/L			10/31/23 13:31	5
Ethylbenzene	**2.6**	**I**	5.0	1.0	ug/L			10/31/23 13:31	5
Isopropylbenzene	**2.8**	**I**	5.0	1.3	ug/L			10/31/23 13:31	5
m,p-Xylenes	**2.7**	**I**	5.0	2.5	ug/L			10/31/23 13:31	5
Methyl acetate	16	U	25	16	ug/L			10/31/23 13:31	5
Methyl tert-butyl ether	4.1	U	25	4.1	ug/L			10/31/23 13:31	5
Methylene Chloride	16	U	25	16	ug/L			10/31/23 13:31	5
o-Xylene	**2.4**	**I**	5.0	1.3	ug/L			10/31/23 13:31	5
Styrene	**1.9**	**I**	5.0	1.4	ug/L			10/31/23 13:31	5
Tetrachloroethene	**2.8**	**I**	5.0	1.8	ug/L			10/31/23 13:31	5
Toluene	**3.0**	**I**	5.0	1.3	ug/L			10/31/23 13:31	5
trans-1,2-Dichloroethene	**13**		5.0	1.7	ug/L			10/31/23 13:31	5
trans-1,3-Dichloropropene	**3.1**	**I**	5.0	1.2	ug/L			10/31/23 13:31	5
Trichloroethene	**3.3**	**I**	5.0	1.0	ug/L			10/31/23 13:31	5
Trichlorofluoromethane	1.7	U	5.0	1.7	ug/L			10/31/23 13:31	5
Vinyl chloride	**320**		5.0	2.0	ug/L			10/31/23 13:31	5
Xylenes, Total	**5.1**		5.0	1.2	ug/L			10/31/23 13:31	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*60 - 124*		*10/31/23 13:31*	*5*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*10/31/23 13:31*	*5*
Dibromofluoromethane (Surr)	*91*		*70 - 130*		*10/31/23 13:31*	*5*
Toluene-d8 (Surr)	*102*		*70 - 130*		*10/31/23 13:31*	*5*

Client Sample ID: LC34-DPT1011-034.0-20231024
Lab Sample ID: 670-29324-5

Date Collected: 10/24/23 16:10
Matrix: Water
Date Received: 10/26/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/31/23 17:09	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/31/23 17:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/31/23 17:09	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-29324-1

Client Sample ID: LC34-DPT1011-034.0-20231024
Date Collected: 10/24/23 16:10
Date Received: 10/26/23 08:00

Lab Sample ID: 670-29324-5
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/31/23 17:09	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/31/23 17:09	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/31/23 17:09	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/31/23 17:09	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/31/23 17:09	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/31/23 17:09	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/31/23 17:09	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/31/23 17:09	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/31/23 17:09	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/31/23 17:09	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/31/23 17:09	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/31/23 17:09	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/31/23 17:09	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/31/23 17:09	1
Acetone	3.7	U J3	10	3.7	ug/L			10/31/23 17:09	1
Benzene	0.27	U	1.0	0.27	ug/L			10/31/23 17:09	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/31/23 17:09	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/31/23 17:09	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/31/23 17:09	1
Carbon disulfide	**0.96**	**I**	2.0	0.43	ug/L			10/31/23 17:09	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/31/23 17:09	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/31/23 17:09	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/31/23 17:09	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/31/23 17:09	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/31/23 17:09	1
cis-1,2-Dichloroethene	**2.6**		1.0	0.25	ug/L			10/31/23 17:09	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/31/23 17:09	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/31/23 17:09	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/31/23 17:09	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/31/23 17:09	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/31/23 17:09	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/31/23 17:09	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/31/23 17:09	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/31/23 17:09	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/31/23 17:09	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/31/23 17:09	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/31/23 17:09	1
Styrene	0.27	U	1.0	0.27	ug/L			10/31/23 17:09	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/31/23 17:09	1
Toluene	0.25	U	1.0	0.25	ug/L			10/31/23 17:09	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/31/23 17:09	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/31/23 17:09	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/31/23 17:09	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/31/23 17:09	1
Vinyl chloride	**3.0**		1.0	0.40	ug/L			10/31/23 17:09	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/31/23 17:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*71*		*60 - 124*		*10/31/23 17:09*	*1*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*		*10/31/23 17:09*	*1*

Client Sample ID: LC34-DPT1011-034.0-20231024

Lab Sample ID: 670-29324-5

Date Collected: 10/24/23 16:10

Matrix: Water

Date Received: 10/26/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*71*		*70 - 130*		*10/31/23 17:09*	*1*
Toluene-d8 (Surr)	*109*		*70 - 130*		*10/31/23 17:09*	*1*

Client Sample ID: LC34-DPT1011-038.0-20231024

Lab Sample ID: 670-29324-6

Date Collected: 10/25/23 16:30

Matrix: Water

Date Received: 10/26/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			11/01/23 12:47	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			11/01/23 12:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			11/01/23 12:47	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			11/01/23 12:47	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			11/01/23 12:47	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			11/01/23 12:47	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			11/01/23 12:47	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			11/01/23 12:47	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			11/01/23 12:47	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/01/23 12:47	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			11/01/23 12:47	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			11/01/23 12:47	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/01/23 12:47	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/01/23 12:47	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			11/01/23 12:47	1
2-Hexanone	3.2	U J3	10	3.2	ug/L			11/01/23 12:47	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			11/01/23 12:47	1
Acetone	3.7	U J3	10	3.7	ug/L			11/01/23 12:47	1
Benzene	0.27	U	1.0	0.27	ug/L			11/01/23 12:47	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			11/01/23 12:47	1
Bromoform	0.59	U	1.0	0.59	ug/L			11/01/23 12:47	1
Bromomethane	3.7	U	5.0	3.7	ug/L			11/01/23 12:47	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			11/01/23 12:47	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			11/01/23 12:47	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			11/01/23 12:47	1
Chloroethane	4.6	U	5.0	4.6	ug/L			11/01/23 12:47	1
Chloroform	0.27	U	1.0	0.27	ug/L			11/01/23 12:47	1
Chloromethane	0.54	U	1.0	0.54	ug/L			11/01/23 12:47	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			11/01/23 12:47	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			11/01/23 12:47	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			11/01/23 12:47	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			11/01/23 12:47	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			11/01/23 12:47	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			11/01/23 12:47	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			11/01/23 12:47	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			11/01/23 12:47	1
Methyl acetate	3.2	U J3	5.0	3.2	ug/L			11/01/23 12:47	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			11/01/23 12:47	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			11/01/23 12:47	1
o-Xylene	0.26	U	1.0	0.26	ug/L			11/01/23 12:47	1

Client Sample ID: LC34-DPT1011-038.0-20231024
Lab Sample ID: 670-29324-6

Date Collected: 10/25/23 16:30
Matrix: Water
Date Received: 10/26/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.27	U	1.0	0.27	ug/L			11/01/23 12:47	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			11/01/23 12:47	1
Toluene	0.25	U	1.0	0.25	ug/L			11/01/23 12:47	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			11/01/23 12:47	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			11/01/23 12:47	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			11/01/23 12:47	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			11/01/23 12:47	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			11/01/23 12:47	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/01/23 12:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*60 - 124*		*11/01/23 12:47*	*1*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*11/01/23 12:47*	*1*
Dibromofluoromethane (Surr)	*91*		*70 - 130*		*11/01/23 12:47*	*1*
Toluene-d8 (Surr)	*106*		*70 - 130*		*11/01/23 12:47*	*1*

Client Sample ID: LC34-DPT1012-008.0-20231025
Lab Sample ID: 670-29324-7

Date Collected: 10/25/23 08:10
Matrix: Water
Date Received: 10/26/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			11/01/23 13:10	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			11/01/23 13:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			11/01/23 13:10	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			11/01/23 13:10	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			11/01/23 13:10	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			11/01/23 13:10	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			11/01/23 13:10	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			11/01/23 13:10	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			11/01/23 13:10	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/01/23 13:10	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			11/01/23 13:10	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			11/01/23 13:10	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/01/23 13:10	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/01/23 13:10	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			11/01/23 13:10	1
2-Hexanone	3.2	U J3	10	3.2	ug/L			11/01/23 13:10	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			11/01/23 13:10	1
Acetone	3.7	U J3	10	3.7	ug/L			11/01/23 13:10	1
Benzene	0.27	U	1.0	0.27	ug/L			11/01/23 13:10	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			11/01/23 13:10	1
Bromoform	0.59	U	1.0	0.59	ug/L			11/01/23 13:10	1
Bromomethane	3.7	U	5.0	3.7	ug/L			11/01/23 13:10	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			11/01/23 13:10	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			11/01/23 13:10	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			11/01/23 13:10	1
Chloroethane	4.6	U	5.0	4.6	ug/L			11/01/23 13:10	1
Chloroform	0.27	U	1.0	0.27	ug/L			11/01/23 13:10	1
Chloromethane	0.54	U	1.0	0.54	ug/L			11/01/23 13:10	1

Client Sample ID: LC34-DPT1012-008.0-20231025
Lab Sample ID: 670-29324-7

Date Collected: 10/25/23 08:10
Matrix: Water
Date Received: 10/26/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**16**		1.0	0.25	ug/L			11/01/23 13:10	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			11/01/23 13:10	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			11/01/23 13:10	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			11/01/23 13:10	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			11/01/23 13:10	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			11/01/23 13:10	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			11/01/23 13:10	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			11/01/23 13:10	1
Methyl acetate	3.2	U J3	5.0	3.2	ug/L			11/01/23 13:10	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			11/01/23 13:10	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			11/01/23 13:10	1
o-Xylene	0.26	U	1.0	0.26	ug/L			11/01/23 13:10	1
Styrene	0.27	U	1.0	0.27	ug/L			11/01/23 13:10	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			11/01/23 13:10	1
Toluene	0.25	U	1.0	0.25	ug/L			11/01/23 13:10	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			11/01/23 13:10	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			11/01/23 13:10	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			11/01/23 13:10	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			11/01/23 13:10	1
Vinyl chloride	**40**		1.0	0.40	ug/L			11/01/23 13:10	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/01/23 13:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*60 - 124*		*11/01/23 13:10*	*1*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*11/01/23 13:10*	*1*
Dibromofluoromethane (Surr)	*95*		*70 - 130*		*11/01/23 13:10*	*1*
Toluene-d8 (Surr)	*107*		*70 - 130*		*11/01/23 13:10*	*1*

Client Sample ID: LC34-DPT1012-013.0-20231025
Lab Sample ID: 670-29324-8

Date Collected: 10/25/23 08:25
Matrix: Water
Date Received: 10/26/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	5.0	1.1	ug/L			11/01/23 13:46	5
1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	ug/L			11/01/23 13:46	5
1,1,2-Trichloro-1,2,2-trifluoroethane	1.2	U	5.0	1.2	ug/L			11/01/23 13:46	5
1,1,2-Trichloroethane	1.6	U	5.0	1.6	ug/L			11/01/23 13:46	5
1,1-Dichloroethane	1.7	U	5.0	1.7	ug/L			11/01/23 13:46	5
1,1-Dichloroethene	1.7	U	5.0	1.7	ug/L			11/01/23 13:46	5
1,2,4-Trichlorobenzene	2.7	U	25	2.7	ug/L			11/01/23 13:46	5
1,2-Dibromo-3-Chloropropane	9.0	U	25	9.0	ug/L			11/01/23 13:46	5
1,2-Dibromoethane (EDB)	1.7	U	5.0	1.7	ug/L			11/01/23 13:46	5
1,2-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			11/01/23 13:46	5
1,2-Dichloroethane	1.3	U	5.0	1.3	ug/L			11/01/23 13:46	5
1,2-Dichloropropane	1.1	U	5.0	1.1	ug/L			11/01/23 13:46	5
1,3-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			11/01/23 13:46	5
1,4-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			11/01/23 13:46	5
2-Butanone (MEK)	32	U	50	32	ug/L			11/01/23 13:46	5
2-Hexanone	16	U	50	16	ug/L			11/01/23 13:46	5

Client: Tetra Tech, Inc.
Job ID: 670-29324-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT1012-013.0-20231025
Lab Sample ID: 670-29324-8
Date Collected: 10/25/23 08:25
Matrix: Water
Date Received: 10/26/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone	14	U	50	14	ug/L			11/01/23 13:46	5
Acetone	19	U	50	19	ug/L			11/01/23 13:46	5
Benzene	1.4	U	5.0	1.4	ug/L			11/01/23 13:46	5
Bromodichloromethane	1.3	U	5.0	1.3	ug/L			11/01/23 13:46	5
Bromoform	3.0	U	5.0	3.0	ug/L			11/01/23 13:46	5
Bromomethane	19	U	25	19	ug/L			11/01/23 13:46	5
Carbon disulfide	2.2	U	10	2.2	ug/L			11/01/23 13:46	5
Carbon tetrachloride	1.5	U	5.0	1.5	ug/L			11/01/23 13:46	5
Chlorobenzene	0.75	U	5.0	0.75	ug/L			11/01/23 13:46	5
Chloroethane	23	U	25	23	ug/L			11/01/23 13:46	5
Chloroform	1.4	U	5.0	1.4	ug/L			11/01/23 13:46	5
Chloromethane	2.7	U	5.0	2.7	ug/L			11/01/23 13:46	5
cis-1,2-Dichloroethene	**190**		5.0	1.3	ug/L			11/01/23 13:46	5
cis-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			11/01/23 13:46	5
Cyclohexane	1.4	U	5.0	1.4	ug/L			11/01/23 13:46	5
Dibromochloromethane	2.0	U	5.0	2.0	ug/L			11/01/23 13:46	5
Dichlorodifluoromethane	1.8	U	5.0	1.8	ug/L			11/01/23 13:46	5
Ethylbenzene	1.0	U	5.0	1.0	ug/L			11/01/23 13:46	5
Isopropylbenzene	1.3	U	5.0	1.3	ug/L			11/01/23 13:46	5
m,p-Xylenes	2.5	U	5.0	2.5	ug/L			11/01/23 13:46	5
Methyl acetate	16	U	25	16	ug/L			11/01/23 13:46	5
Methyl tert-butyl ether	4.1	U	25	4.1	ug/L			11/01/23 13:46	5
Methylene Chloride	16	U	25	16	ug/L			11/01/23 13:46	5
o-Xylene	1.3	U	5.0	1.3	ug/L			11/01/23 13:46	5
Styrene	1.4	U	5.0	1.4	ug/L			11/01/23 13:46	5
Tetrachloroethene	1.8	U	5.0	1.8	ug/L			11/01/23 13:46	5
Toluene	1.3	U	5.0	1.3	ug/L			11/01/23 13:46	5
trans-1,2-Dichloroethene	1.7	U	5.0	1.7	ug/L			11/01/23 13:46	5
trans-1,3-Dichloropropene	1.2	U	5.0	1.2	ug/L			11/01/23 13:46	5
Trichloroethene	1.0	U	5.0	1.0	ug/L			11/01/23 13:46	5
Trichlorofluoromethane	1.7	U J3	5.0	1.7	ug/L			11/01/23 13:46	5
Vinyl chloride	**620**		5.0	2.0	ug/L			11/01/23 13:46	5
Xylenes, Total	1.2	U	5.0	1.2	ug/L			11/01/23 13:46	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 124*		*11/01/23 13:46*	*5*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*11/01/23 13:46*	*5*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*11/01/23 13:46*	*5*
Toluene-d8 (Surr)	*104*		*70 - 130*		*11/01/23 13:46*	*5*

Client Sample ID: LC34-DPT1012-018.0-20231025
Lab Sample ID: 670-29324-9
Date Collected: 10/25/23 08:40
Matrix: Water
Date Received: 10/26/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	5.0	1.1	ug/L			11/01/23 14:07	5
1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	ug/L			11/01/23 14:07	5
1,1,2-Trichloro-1,2,2-trifluoroethane	1.2	U	5.0	1.2	ug/L			11/01/23 14:07	5
1,1,2-Trichloroethane	1.6	U	5.0	1.6	ug/L			11/01/23 14:07	5

Client Sample ID: LC34-DPT1012-018.0-20231025
Date Collected: 10/25/23 08:40
Date Received: 10/26/23 08:00

Lab Sample ID: 670-29324-9
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	1.7	U	5.0	1.7	ug/L			11/01/23 14:07	5
1,1-Dichloroethene	1.7	U	5.0	1.7	ug/L			11/01/23 14:07	5
1,2,4-Trichlorobenzene	2.7	U	25	2.7	ug/L			11/01/23 14:07	5
1,2-Dibromo-3-Chloropropane	9.0	U	25	9.0	ug/L			11/01/23 14:07	5
1,2-Dibromoethane (EDB)	1.7	U	5.0	1.7	ug/L			11/01/23 14:07	5
1,2-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			11/01/23 14:07	5
1,2-Dichloroethane	1.3	U	5.0	1.3	ug/L			11/01/23 14:07	5
1,2-Dichloropropane	1.1	U	5.0	1.1	ug/L			11/01/23 14:07	5
1,3-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			11/01/23 14:07	5
1,4-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			11/01/23 14:07	5
2-Butanone (MEK)	32	U	50	32	ug/L			11/01/23 14:07	5
2-Hexanone	16	U	50	16	ug/L			11/01/23 14:07	5
4-Methyl-2-pentanone	14	U	50	14	ug/L			11/01/23 14:07	5
Acetone	19	U	50	19	ug/L			11/01/23 14:07	5
Benzene	1.4	U	5.0	1.4	ug/L			11/01/23 14:07	5
Bromodichloromethane	1.3	U	5.0	1.3	ug/L			11/01/23 14:07	5
Bromoform	3.0	U	5.0	3.0	ug/L			11/01/23 14:07	5
Bromomethane	19	U	25	19	ug/L			11/01/23 14:07	5
Carbon disulfide	2.2	U	10	2.2	ug/L			11/01/23 14:07	5
Carbon tetrachloride	1.5	U	5.0	1.5	ug/L			11/01/23 14:07	5
Chlorobenzene	0.75	U	5.0	0.75	ug/L			11/01/23 14:07	5
Chloroethane	23	U	25	23	ug/L			11/01/23 14:07	5
Chloroform	1.4	U	5.0	1.4	ug/L			11/01/23 14:07	5
Chloromethane	2.7	U	5.0	2.7	ug/L			11/01/23 14:07	5
cis-1,2-Dichloroethene	**150**		5.0	1.3	ug/L			11/01/23 14:07	5
cis-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			11/01/23 14:07	5
Cyclohexane	1.4	U	5.0	1.4	ug/L			11/01/23 14:07	5
Dibromochloromethane	2.0	U	5.0	2.0	ug/L			11/01/23 14:07	5
Dichlorodifluoromethane	1.8	U	5.0	1.8	ug/L			11/01/23 14:07	5
Ethylbenzene	1.0	U	5.0	1.0	ug/L			11/01/23 14:07	5
Isopropylbenzene	1.3	U	5.0	1.3	ug/L			11/01/23 14:07	5
m,p-Xylenes	2.5	U	5.0	2.5	ug/L			11/01/23 14:07	5
Methyl acetate	16	U	25	16	ug/L			11/01/23 14:07	5
Methyl tert-butyl ether	4.1	U	25	4.1	ug/L			11/01/23 14:07	5
Methylene Chloride	16	U	25	16	ug/L			11/01/23 14:07	5
o-Xylene	1.3	U	5.0	1.3	ug/L			11/01/23 14:07	5
Styrene	1.4	U	5.0	1.4	ug/L			11/01/23 14:07	5
Tetrachloroethene	1.8	U	5.0	1.8	ug/L			11/01/23 14:07	5
Toluene	1.3	U	5.0	1.3	ug/L			11/01/23 14:07	5
trans-1,2-Dichloroethene	**2.6**	**I**	5.0	1.7	ug/L			11/01/23 14:07	5
trans-1,3-Dichloropropene	1.2	U	5.0	1.2	ug/L			11/01/23 14:07	5
Trichloroethene	1.0	U	5.0	1.0	ug/L			11/01/23 14:07	5
Trichlorofluoromethane	1.7	U J3	5.0	1.7	ug/L			11/01/23 14:07	5
Vinyl chloride	**890**		5.0	2.0	ug/L			11/01/23 14:07	5
Xylenes, Total	1.2	U	5.0	1.2	ug/L			11/01/23 14:07	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 124*		*11/01/23 14:07*	*5*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*11/01/23 14:07*	*5*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*11/01/23 14:07*	*5*

Client Sample ID: LC34-DPT1012-018.0-20231025
Lab Sample ID: 670-29324-9

Date Collected: 10/25/23 08:40
Matrix: Water
Date Received: 10/26/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		70 - 130		11/01/23 14:07	5

Client Sample ID: LC34-DPT1012-025.0-20231025
Lab Sample ID: 670-29324-10

Date Collected: 10/25/23 08:55
Matrix: Water
Date Received: 10/26/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			11/01/23 13:33	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			11/01/23 13:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			11/01/23 13:33	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			11/01/23 13:33	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			11/01/23 13:33	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			11/01/23 13:33	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			11/01/23 13:33	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			11/01/23 13:33	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			11/01/23 13:33	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/01/23 13:33	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			11/01/23 13:33	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			11/01/23 13:33	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/01/23 13:33	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/01/23 13:33	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			11/01/23 13:33	1
2-Hexanone	3.2	U J3	10	3.2	ug/L			11/01/23 13:33	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			11/01/23 13:33	1
Acetone	3.7	U J3	10	3.7	ug/L			11/01/23 13:33	1
Benzene	0.27	U	1.0	0.27	ug/L			11/01/23 13:33	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			11/01/23 13:33	1
Bromoform	0.59	U	1.0	0.59	ug/L			11/01/23 13:33	1
Bromomethane	3.7	U	5.0	3.7	ug/L			11/01/23 13:33	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			11/01/23 13:33	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			11/01/23 13:33	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			11/01/23 13:33	1
Chloroethane	4.6	U	5.0	4.6	ug/L			11/01/23 13:33	1
Chloroform	0.27	U	1.0	0.27	ug/L			11/01/23 13:33	1
Chloromethane	0.54	U	1.0	0.54	ug/L			11/01/23 13:33	1
cis-1,2-Dichloroethene	**1.1**		1.0	0.25	ug/L			11/01/23 13:33	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			11/01/23 13:33	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			11/01/23 13:33	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			11/01/23 13:33	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			11/01/23 13:33	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			11/01/23 13:33	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			11/01/23 13:33	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			11/01/23 13:33	1
Methyl acetate	3.2	U J3	5.0	3.2	ug/L			11/01/23 13:33	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			11/01/23 13:33	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			11/01/23 13:33	1
o-Xylene	0.26	U	1.0	0.26	ug/L			11/01/23 13:33	1
Styrene	0.27	U	1.0	0.27	ug/L			11/01/23 13:33	1

Client Sample ID: LC34-DPT1012-025.0-20231025
Lab Sample ID: 670-29324-10

Date Collected: 10/25/23 08:55
Matrix: Water
Date Received: 10/26/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			11/01/23 13:33	1
Toluene	0.25	U	1.0	0.25	ug/L			11/01/23 13:33	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			11/01/23 13:33	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			11/01/23 13:33	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			11/01/23 13:33	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			11/01/23 13:33	1
Vinyl chloride	**3.8**		1.0	0.40	ug/L			11/01/23 13:33	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/01/23 13:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*60 - 124*		*11/01/23 13:33*	*1*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*		*11/01/23 13:33*	*1*
Dibromofluoromethane (Surr)	*92*		*70 - 130*		*11/01/23 13:33*	*1*
Toluene-d8 (Surr)	*107*		*70 - 130*		*11/01/23 13:33*	*1*

Client Sample ID: LC34-DPT1012-034.0-20231025
Lab Sample ID: 670-29324-11

Date Collected: 10/25/23 09:15
Matrix: Water
Date Received: 10/26/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			11/01/23 13:56	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			11/01/23 13:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			11/01/23 13:56	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			11/01/23 13:56	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			11/01/23 13:56	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			11/01/23 13:56	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			11/01/23 13:56	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			11/01/23 13:56	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			11/01/23 13:56	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/01/23 13:56	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			11/01/23 13:56	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			11/01/23 13:56	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/01/23 13:56	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/01/23 13:56	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			11/01/23 13:56	1
2-Hexanone	3.2	U J3	10	3.2	ug/L			11/01/23 13:56	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			11/01/23 13:56	1
Acetone	3.7	U J3	10	3.7	ug/L			11/01/23 13:56	1
Benzene	0.27	U	1.0	0.27	ug/L			11/01/23 13:56	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			11/01/23 13:56	1
Bromoform	0.59	U	1.0	0.59	ug/L			11/01/23 13:56	1
Bromomethane	3.7	U	5.0	3.7	ug/L			11/01/23 13:56	1
Carbon disulfide	**0.98**	**I**	2.0	0.43	ug/L			11/01/23 13:56	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			11/01/23 13:56	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			11/01/23 13:56	1
Chloroethane	4.6	U	5.0	4.6	ug/L			11/01/23 13:56	1
Chloroform	0.27	U	1.0	0.27	ug/L			11/01/23 13:56	1
Chloromethane	0.54	U	1.0	0.54	ug/L			11/01/23 13:56	1
cis-1,2-Dichloroethene	**3.6**		1.0	0.25	ug/L			11/01/23 13:56	1

Client Sample ID: LC34-DPT1012-034.0-20231025
Lab Sample ID: 670-29324-11

Date Collected: 10/25/23 09:15
Matrix: Water
Date Received: 10/26/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			11/01/23 13:56	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			11/01/23 13:56	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			11/01/23 13:56	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			11/01/23 13:56	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			11/01/23 13:56	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			11/01/23 13:56	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			11/01/23 13:56	1
Methyl acetate	3.2	U J3	5.0	3.2	ug/L			11/01/23 13:56	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			11/01/23 13:56	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			11/01/23 13:56	1
o-Xylene	0.26	U	1.0	0.26	ug/L			11/01/23 13:56	1
Styrene	0.27	U	1.0	0.27	ug/L			11/01/23 13:56	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			11/01/23 13:56	1
Toluene	0.25	U	1.0	0.25	ug/L			11/01/23 13:56	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			11/01/23 13:56	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			11/01/23 13:56	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			11/01/23 13:56	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			11/01/23 13:56	1
Vinyl chloride	**180**		1.0	0.40	ug/L			11/01/23 13:56	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/01/23 13:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*		*11/01/23 13:56*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*11/01/23 13:56*	*1*
Dibromofluoromethane (Surr)	*95*		*70 - 130*		*11/01/23 13:56*	*1*
Toluene-d8 (Surr)	*107*		*70 - 130*		*11/01/23 13:56*	*1*

Client Sample ID: LC34-DPT1012-038.0-20231025
Lab Sample ID: 670-29324-12

Date Collected: 10/25/23 09:35
Matrix: Water
Date Received: 10/26/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			11/01/23 14:19	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			11/01/23 14:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			11/01/23 14:19	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			11/01/23 14:19	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			11/01/23 14:19	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			11/01/23 14:19	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			11/01/23 14:19	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			11/01/23 14:19	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			11/01/23 14:19	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/01/23 14:19	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			11/01/23 14:19	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			11/01/23 14:19	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/01/23 14:19	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/01/23 14:19	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			11/01/23 14:19	1
2-Hexanone	3.2	U J3	10	3.2	ug/L			11/01/23 14:19	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			11/01/23 14:19	1

Client Sample ID: LC34-DPT1012-038.0-20231025
Lab Sample ID: 670-29324-12

Date Collected: 10/25/23 09:35
Matrix: Water
Date Received: 10/26/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	3.7	U J3	10	3.7	ug/L			11/01/23 14:19	1
Benzene	0.27	U	1.0	0.27	ug/L			11/01/23 14:19	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			11/01/23 14:19	1
Bromoform	0.59	U	1.0	0.59	ug/L			11/01/23 14:19	1
Bromomethane	3.7	U	5.0	3.7	ug/L			11/01/23 14:19	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			11/01/23 14:19	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			11/01/23 14:19	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			11/01/23 14:19	1
Chloroethane	4.6	U	5.0	4.6	ug/L			11/01/23 14:19	1
Chloroform	0.27	U	1.0	0.27	ug/L			11/01/23 14:19	1
Chloromethane	0.54	U	1.0	0.54	ug/L			11/01/23 14:19	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			11/01/23 14:19	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			11/01/23 14:19	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			11/01/23 14:19	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			11/01/23 14:19	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			11/01/23 14:19	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			11/01/23 14:19	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			11/01/23 14:19	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			11/01/23 14:19	1
Methyl acetate	3.2	U J3	5.0	3.2	ug/L			11/01/23 14:19	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			11/01/23 14:19	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			11/01/23 14:19	1
o-Xylene	0.26	U	1.0	0.26	ug/L			11/01/23 14:19	1
Styrene	0.27	U	1.0	0.27	ug/L			11/01/23 14:19	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			11/01/23 14:19	1
Toluene	0.25	U	1.0	0.25	ug/L			11/01/23 14:19	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			11/01/23 14:19	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			11/01/23 14:19	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			11/01/23 14:19	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			11/01/23 14:19	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			11/01/23 14:19	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/01/23 14:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*		*11/01/23 14:19*	*1*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*11/01/23 14:19*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*11/01/23 14:19*	*1*
Toluene-d8 (Surr)	*108*		*70 - 130*		*11/01/23 14:19*	*1*

Client Sample ID: LC34-DPT1013-008.0-20231025
Lab Sample ID: 670-29324-13

Date Collected: 10/25/23 10:10
Matrix: Water
Date Received: 10/26/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			11/01/23 14:43	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			11/01/23 14:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			11/01/23 14:43	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			11/01/23 14:43	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			11/01/23 14:43	1

Client: Tetra Tech, Inc.
Job ID: 670-29324-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT1013-008.0-20231025
Lab Sample ID: 670-29324-13
Date Collected: 10/25/23 10:10
Matrix: Water
Date Received: 10/26/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			11/01/23 14:43	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			11/01/23 14:43	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			11/01/23 14:43	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			11/01/23 14:43	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/01/23 14:43	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			11/01/23 14:43	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			11/01/23 14:43	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/01/23 14:43	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/01/23 14:43	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			11/01/23 14:43	1
2-Hexanone	3.2	U J3	10	3.2	ug/L			11/01/23 14:43	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			11/01/23 14:43	1
Acetone	3.7	U J3	10	3.7	ug/L			11/01/23 14:43	1
Benzene	0.27	U	1.0	0.27	ug/L			11/01/23 14:43	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			11/01/23 14:43	1
Bromoform	0.59	U	1.0	0.59	ug/L			11/01/23 14:43	1
Bromomethane	3.7	U	5.0	3.7	ug/L			11/01/23 14:43	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			11/01/23 14:43	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			11/01/23 14:43	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			11/01/23 14:43	1
Chloroethane	4.6	U	5.0	4.6	ug/L			11/01/23 14:43	1
Chloroform	0.27	U	1.0	0.27	ug/L			11/01/23 14:43	1
Chloromethane	0.54	U	1.0	0.54	ug/L			11/01/23 14:43	1
cis-1,2-Dichloroethene	**11**		1.0	0.25	ug/L			11/01/23 14:43	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			11/01/23 14:43	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			11/01/23 14:43	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			11/01/23 14:43	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			11/01/23 14:43	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			11/01/23 14:43	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			11/01/23 14:43	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			11/01/23 14:43	1
Methyl acetate	3.2	U J3	5.0	3.2	ug/L			11/01/23 14:43	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			11/01/23 14:43	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			11/01/23 14:43	1
o-Xylene	0.26	U	1.0	0.26	ug/L			11/01/23 14:43	1
Styrene	0.27	U	1.0	0.27	ug/L			11/01/23 14:43	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			11/01/23 14:43	1
Toluene	0.25	U	1.0	0.25	ug/L			11/01/23 14:43	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			11/01/23 14:43	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			11/01/23 14:43	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			11/01/23 14:43	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			11/01/23 14:43	1
Vinyl chloride	**38**		1.0	0.40	ug/L			11/01/23 14:43	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/01/23 14:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*60 - 124*		*11/01/23 14:43*	*1*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*		*11/01/23 14:43*	*1*
Dibromofluoromethane (Surr)	*92*		*70 - 130*		*11/01/23 14:43*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*11/01/23 14:43*	*1*

Client: Tetra Tech, Inc.
Job ID: 670-29324-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT1013-013.0-20231025
Lab Sample ID: 670-29324-14
Date Collected: 10/25/23 10:25
Matrix: Water
Date Received: 10/26/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			11/01/23 15:06	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			11/01/23 15:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			11/01/23 15:06	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			11/01/23 15:06	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			11/01/23 15:06	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			11/01/23 15:06	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			11/01/23 15:06	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			11/01/23 15:06	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			11/01/23 15:06	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/01/23 15:06	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			11/01/23 15:06	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			11/01/23 15:06	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/01/23 15:06	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/01/23 15:06	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			11/01/23 15:06	1
2-Hexanone	3.2	U J3	10	3.2	ug/L			11/01/23 15:06	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			11/01/23 15:06	1
Acetone	3.7	U J3	10	3.7	ug/L			11/01/23 15:06	1
Benzene	0.27	U	1.0	0.27	ug/L			11/01/23 15:06	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			11/01/23 15:06	1
Bromoform	0.59	U	1.0	0.59	ug/L			11/01/23 15:06	1
Bromomethane	3.7	U	5.0	3.7	ug/L			11/01/23 15:06	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			11/01/23 15:06	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			11/01/23 15:06	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			11/01/23 15:06	1
Chloroethane	4.6	U	5.0	4.6	ug/L			11/01/23 15:06	1
Chloroform	0.27	U	1.0	0.27	ug/L			11/01/23 15:06	1
Chloromethane	0.54	U	1.0	0.54	ug/L			11/01/23 15:06	1
cis-1,2-Dichloroethene	**93**		1.0	0.25	ug/L			11/01/23 15:06	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			11/01/23 15:06	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			11/01/23 15:06	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			11/01/23 15:06	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			11/01/23 15:06	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			11/01/23 15:06	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			11/01/23 15:06	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			11/01/23 15:06	1
Methyl acetate	3.2	U J3	5.0	3.2	ug/L			11/01/23 15:06	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			11/01/23 15:06	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			11/01/23 15:06	1
o-Xylene	0.26	U	1.0	0.26	ug/L			11/01/23 15:06	1
Styrene	0.27	U	1.0	0.27	ug/L			11/01/23 15:06	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			11/01/23 15:06	1
Toluene	0.25	U	1.0	0.25	ug/L			11/01/23 15:06	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			11/01/23 15:06	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			11/01/23 15:06	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			11/01/23 15:06	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			11/01/23 15:06	1
Vinyl chloride	**170**		1.0	0.40	ug/L			11/01/23 15:06	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/01/23 15:06	1

Client Sample ID: LC34-DPT1013-013.0-20231025
Lab Sample ID: 670-29324-14

Date Collected: 10/25/23 10:25
Matrix: Water
Date Received: 10/26/23 08:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		60 - 124		11/01/23 15:06	1
4-Bromofluorobenzene (Surr)	96		70 - 130		11/01/23 15:06	1
Dibromofluoromethane (Surr)	92		70 - 130		11/01/23 15:06	1
Toluene-d8 (Surr)	100		70 - 130		11/01/23 15:06	1

Client Sample ID: LC34-DPT1013-018.0-20231025
Lab Sample ID: 670-29324-15

Date Collected: 10/25/23 10:40
Matrix: Water
Date Received: 10/26/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			11/01/23 15:29	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			11/01/23 15:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			11/01/23 15:29	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			11/01/23 15:29	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			11/01/23 15:29	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			11/01/23 15:29	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			11/01/23 15:29	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			11/01/23 15:29	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			11/01/23 15:29	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/01/23 15:29	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			11/01/23 15:29	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			11/01/23 15:29	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/01/23 15:29	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/01/23 15:29	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			11/01/23 15:29	1
2-Hexanone	3.2	U J3	10	3.2	ug/L			11/01/23 15:29	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			11/01/23 15:29	1
Acetone	3.7	U J3	10	3.7	ug/L			11/01/23 15:29	1
Benzene	0.27	U	1.0	0.27	ug/L			11/01/23 15:29	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			11/01/23 15:29	1
Bromoform	0.59	U	1.0	0.59	ug/L			11/01/23 15:29	1
Bromomethane	3.7	U	5.0	3.7	ug/L			11/01/23 15:29	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			11/01/23 15:29	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			11/01/23 15:29	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			11/01/23 15:29	1
Chloroethane	4.6	U	5.0	4.6	ug/L			11/01/23 15:29	1
Chloroform	0.27	U	1.0	0.27	ug/L			11/01/23 15:29	1
Chloromethane	0.54	U	1.0	0.54	ug/L			11/01/23 15:29	1
cis-1,2-Dichloroethene	**100**		1.0	0.25	ug/L			11/01/23 15:29	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			11/01/23 15:29	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			11/01/23 15:29	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			11/01/23 15:29	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			11/01/23 15:29	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			11/01/23 15:29	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			11/01/23 15:29	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			11/01/23 15:29	1
Methyl acetate	3.2	U J3	5.0	3.2	ug/L			11/01/23 15:29	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			11/01/23 15:29	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			11/01/23 15:29	1

Client Sample ID: LC34-DPT1013-018.0-20231025
Lab Sample ID: 670-29324-15

Date Collected: 10/25/23 10:40
Matrix: Water
Date Received: 10/26/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	0.26	U	1.0	0.26	ug/L			11/01/23 15:29	1
Styrene	0.27	U	1.0	0.27	ug/L			11/01/23 15:29	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			11/01/23 15:29	1
Toluene	0.25	U	1.0	0.25	ug/L			11/01/23 15:29	1
trans-1,2-Dichloroethene	**0.75**	**I**	1.0	0.34	ug/L			11/01/23 15:29	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			11/01/23 15:29	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			11/01/23 15:29	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			11/01/23 15:29	1
Vinyl chloride	**150**		1.0	0.40	ug/L			11/01/23 15:29	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/01/23 15:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*60 - 124*		*11/01/23 15:29*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*11/01/23 15:29*	*1*
Dibromofluoromethane (Surr)	*89*		*70 - 130*		*11/01/23 15:29*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*11/01/23 15:29*	*1*

Client Sample ID: LC34-DPT1013-025.0-20231025
Lab Sample ID: 670-29324-16

Date Collected: 10/25/23 10:55
Matrix: Water
Date Received: 10/26/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			11/01/23 15:52	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			11/01/23 15:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			11/01/23 15:52	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			11/01/23 15:52	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			11/01/23 15:52	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			11/01/23 15:52	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			11/01/23 15:52	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			11/01/23 15:52	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			11/01/23 15:52	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/01/23 15:52	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			11/01/23 15:52	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			11/01/23 15:52	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/01/23 15:52	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/01/23 15:52	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			11/01/23 15:52	1
2-Hexanone	3.2	U J3	10	3.2	ug/L			11/01/23 15:52	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			11/01/23 15:52	1
Acetone	3.7	U J3	10	3.7	ug/L			11/01/23 15:52	1
Benzene	0.27	U	1.0	0.27	ug/L			11/01/23 15:52	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			11/01/23 15:52	1
Bromoform	0.59	U	1.0	0.59	ug/L			11/01/23 15:52	1
Bromomethane	3.7	U	5.0	3.7	ug/L			11/01/23 15:52	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			11/01/23 15:52	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			11/01/23 15:52	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			11/01/23 15:52	1
Chloroethane	4.6	U	5.0	4.6	ug/L			11/01/23 15:52	1
Chloroform	0.27	U	1.0	0.27	ug/L			11/01/23 15:52	1

Client Sample ID: LC34-DPT1013-025.0-20231025
Lab Sample ID: 670-29324-16

Date Collected: 10/25/23 10:55
Matrix: Water
Date Received: 10/26/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	0.54	U	1.0	0.54	ug/L			11/01/23 15:52	1
cis-1,2-Dichloroethene	**0.42**	**I**	1.0	0.25	ug/L			11/01/23 15:52	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			11/01/23 15:52	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			11/01/23 15:52	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			11/01/23 15:52	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			11/01/23 15:52	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			11/01/23 15:52	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			11/01/23 15:52	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			11/01/23 15:52	1
Methyl acetate	3.2	U J3	5.0	3.2	ug/L			11/01/23 15:52	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			11/01/23 15:52	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			11/01/23 15:52	1
o-Xylene	0.26	U	1.0	0.26	ug/L			11/01/23 15:52	1
Styrene	0.27	U	1.0	0.27	ug/L			11/01/23 15:52	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			11/01/23 15:52	1
Toluene	0.25	U	1.0	0.25	ug/L			11/01/23 15:52	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			11/01/23 15:52	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			11/01/23 15:52	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			11/01/23 15:52	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			11/01/23 15:52	1
Vinyl chloride	**4.1**		1.0	0.40	ug/L			11/01/23 15:52	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/01/23 15:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*60 - 124*		*11/01/23 15:52*	*1*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*		*11/01/23 15:52*	*1*
Dibromofluoromethane (Surr)	*93*		*70 - 130*		*11/01/23 15:52*	*1*
Toluene-d8 (Surr)	*112*		*70 - 130*		*11/01/23 15:52*	*1*

Client Sample ID: LC34-DPT1013-034.0-20231025
Lab Sample ID: 670-29324-17

Date Collected: 10/25/23 11:10
Matrix: Water
Date Received: 10/26/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			11/01/23 11:48	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			11/01/23 11:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			11/01/23 11:48	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			11/01/23 11:48	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			11/01/23 11:48	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			11/01/23 11:48	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			11/01/23 11:48	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			11/01/23 11:48	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			11/01/23 11:48	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/01/23 11:48	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			11/01/23 11:48	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			11/01/23 11:48	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/01/23 11:48	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/01/23 11:48	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			11/01/23 11:48	1

Client Sample ID: LC34-DPT1013-034.0-20231025
Lab Sample ID: 670-29324-17

Date Collected: 10/25/23 11:10
Matrix: Water
Date Received: 10/26/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	3.2	U	10	3.2	ug/L			11/01/23 11:48	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			11/01/23 11:48	1
Acetone	3.7	U	10	3.7	ug/L			11/01/23 11:48	1
Benzene	0.27	U	1.0	0.27	ug/L			11/01/23 11:48	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			11/01/23 11:48	1
Bromoform	0.59	U	1.0	0.59	ug/L			11/01/23 11:48	1
Bromomethane	3.7	U	5.0	3.7	ug/L			11/01/23 11:48	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			11/01/23 11:48	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			11/01/23 11:48	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			11/01/23 11:48	1
Chloroethane	4.6	U	5.0	4.6	ug/L			11/01/23 11:48	1
Chloroform	0.27	U	1.0	0.27	ug/L			11/01/23 11:48	1
Chloromethane	0.54	U	1.0	0.54	ug/L			11/01/23 11:48	1
cis-1,2-Dichloroethene	**2.8**		1.0	0.25	ug/L			11/01/23 11:48	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			11/01/23 11:48	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			11/01/23 11:48	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			11/01/23 11:48	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			11/01/23 11:48	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			11/01/23 11:48	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			11/01/23 11:48	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			11/01/23 11:48	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			11/01/23 11:48	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			11/01/23 11:48	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			11/01/23 11:48	1
o-Xylene	0.26	U	1.0	0.26	ug/L			11/01/23 11:48	1
Styrene	0.27	U	1.0	0.27	ug/L			11/01/23 11:48	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			11/01/23 11:48	1
Toluene	0.25	U	1.0	0.25	ug/L			11/01/23 11:48	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			11/01/23 11:48	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			11/01/23 11:48	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			11/01/23 11:48	1
Trichlorofluoromethane	0.33	U J3	1.0	0.33	ug/L			11/01/23 11:48	1
Vinyl chloride	**59**		1.0	0.40	ug/L			11/01/23 11:48	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/01/23 11:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 124*		*11/01/23 11:48*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*11/01/23 11:48*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*11/01/23 11:48*	*1*
Toluene-d8 (Surr)	*83*		*70 - 130*		*11/01/23 11:48*	*1*

Client Sample ID: LC34-DPT1013-038.0-20231025
Lab Sample ID: 670-29324-18

Date Collected: 10/25/23 11:30
Matrix: Water
Date Received: 10/26/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			11/01/23 16:15	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			11/01/23 16:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			11/01/23 16:15	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-29324-1

Client Sample ID: LC34-DPT1013-038.0-20231025
Date Collected: 10/25/23 11:30
Date Received: 10/26/23 08:00

Lab Sample ID: 670-29324-18
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			11/01/23 16:15	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			11/01/23 16:15	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			11/01/23 16:15	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			11/01/23 16:15	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			11/01/23 16:15	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			11/01/23 16:15	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/01/23 16:15	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			11/01/23 16:15	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			11/01/23 16:15	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/01/23 16:15	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/01/23 16:15	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			11/01/23 16:15	1
2-Hexanone	3.2	U J3	10	3.2	ug/L			11/01/23 16:15	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			11/01/23 16:15	1
Acetone	3.7	U J3	10	3.7	ug/L			11/01/23 16:15	1
Benzene	0.27	U	1.0	0.27	ug/L			11/01/23 16:15	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			11/01/23 16:15	1
Bromoform	0.59	U	1.0	0.59	ug/L			11/01/23 16:15	1
Bromomethane	3.7	U	5.0	3.7	ug/L			11/01/23 16:15	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			11/01/23 16:15	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			11/01/23 16:15	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			11/01/23 16:15	1
Chloroethane	4.6	U	5.0	4.6	ug/L			11/01/23 16:15	1
Chloroform	0.27	U	1.0	0.27	ug/L			11/01/23 16:15	1
Chloromethane	0.54	U	1.0	0.54	ug/L			11/01/23 16:15	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			11/01/23 16:15	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			11/01/23 16:15	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			11/01/23 16:15	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			11/01/23 16:15	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			11/01/23 16:15	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			11/01/23 16:15	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			11/01/23 16:15	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			11/01/23 16:15	1
Methyl acetate	3.2	U J3	5.0	3.2	ug/L			11/01/23 16:15	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			11/01/23 16:15	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			11/01/23 16:15	1
o-Xylene	0.26	U	1.0	0.26	ug/L			11/01/23 16:15	1
Styrene	0.27	U	1.0	0.27	ug/L			11/01/23 16:15	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			11/01/23 16:15	1
Toluene	0.25	U	1.0	0.25	ug/L			11/01/23 16:15	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			11/01/23 16:15	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			11/01/23 16:15	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			11/01/23 16:15	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			11/01/23 16:15	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			11/01/23 16:15	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/01/23 16:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*83*		*60 - 124*		*11/01/23 16:15*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*11/01/23 16:15*	*1*

Client Sample ID: LC34-DPT1013-038.0-20231025
Lab Sample ID: 670-29324-18

Date Collected: 10/25/23 11:30
Matrix: Water
Date Received: 10/26/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*88*		*70 - 130*		*11/01/23 16:15*	*1*
Toluene-d8 (Surr)	*92*		*70 - 130*		*11/01/23 16:15*	*1*

Client Sample ID: LC34-DPT1014-008.0-20231025
Lab Sample ID: 670-29324-19

Date Collected: 10/25/23 12:10
Matrix: Water
Date Received: 10/26/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			11/01/23 15:52	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			11/01/23 15:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			11/01/23 15:52	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			11/01/23 15:52	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			11/01/23 15:52	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			11/01/23 15:52	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			11/01/23 15:52	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			11/01/23 15:52	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			11/01/23 15:52	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/01/23 15:52	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			11/01/23 15:52	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			11/01/23 15:52	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/01/23 15:52	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/01/23 15:52	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			11/01/23 15:52	1
2-Hexanone	3.2	U	10	3.2	ug/L			11/01/23 15:52	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			11/01/23 15:52	1
Acetone	3.7	U	10	3.7	ug/L			11/01/23 15:52	1
Benzene	0.27	U	1.0	0.27	ug/L			11/01/23 15:52	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			11/01/23 15:52	1
Bromoform	0.59	U	1.0	0.59	ug/L			11/01/23 15:52	1
Bromomethane	3.7	U	5.0	3.7	ug/L			11/01/23 15:52	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			11/01/23 15:52	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			11/01/23 15:52	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			11/01/23 15:52	1
Chloroethane	4.6	U	5.0	4.6	ug/L			11/01/23 15:52	1
Chloroform	0.27	U	1.0	0.27	ug/L			11/01/23 15:52	1
Chloromethane	0.54	U	1.0	0.54	ug/L			11/01/23 15:52	1
cis-1,2-Dichloroethene	**10**		1.0	0.25	ug/L			11/01/23 15:52	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			11/01/23 15:52	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			11/01/23 15:52	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			11/01/23 15:52	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			11/01/23 15:52	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			11/01/23 15:52	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			11/01/23 15:52	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			11/01/23 15:52	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			11/01/23 15:52	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			11/01/23 15:52	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			11/01/23 15:52	1
o-Xylene	0.26	U	1.0	0.26	ug/L			11/01/23 15:52	1

Client Sample ID: LC34-DPT1014-008.0-20231025
Lab Sample ID: 670-29324-19

Date Collected: 10/25/23 12:10
Matrix: Water
Date Received: 10/26/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.27	U	1.0	0.27	ug/L			11/01/23 15:52	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			11/01/23 15:52	1
Toluene	0.25	U	1.0	0.25	ug/L			11/01/23 15:52	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			11/01/23 15:52	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			11/01/23 15:52	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			11/01/23 15:52	1
Trichlorofluoromethane	0.33	U J3	1.0	0.33	ug/L			11/01/23 15:52	1
Vinyl chloride	**35**		1.0	0.40	ug/L			11/01/23 15:52	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/01/23 15:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 124*		*11/01/23 15:52*	*1*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*11/01/23 15:52*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*11/01/23 15:52*	*1*
Toluene-d8 (Surr)	*93*		*70 - 130*		*11/01/23 15:52*	*1*

Client Sample ID: LC34-DPT1014-013.0-20231025
Lab Sample ID: 670-29324-20

Date Collected: 10/25/23 12:20
Matrix: Water
Date Received: 10/26/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			11/01/23 12:07	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			11/01/23 12:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			11/01/23 12:07	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			11/01/23 12:07	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			11/01/23 12:07	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			11/01/23 12:07	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			11/01/23 12:07	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			11/01/23 12:07	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			11/01/23 12:07	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/01/23 12:07	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			11/01/23 12:07	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			11/01/23 12:07	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/01/23 12:07	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/01/23 12:07	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			11/01/23 12:07	1
2-Hexanone	3.2	U	10	3.2	ug/L			11/01/23 12:07	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			11/01/23 12:07	1
Acetone	3.7	U	10	3.7	ug/L			11/01/23 12:07	1
Benzene	0.27	U	1.0	0.27	ug/L			11/01/23 12:07	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			11/01/23 12:07	1
Bromoform	0.59	U	1.0	0.59	ug/L			11/01/23 12:07	1
Bromomethane	3.7	U	5.0	3.7	ug/L			11/01/23 12:07	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			11/01/23 12:07	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			11/01/23 12:07	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			11/01/23 12:07	1
Chloroethane	4.6	U	5.0	4.6	ug/L			11/01/23 12:07	1
Chloroform	0.27	U	1.0	0.27	ug/L			11/01/23 12:07	1
Chloromethane	0.54	U	1.0	0.54	ug/L			11/01/23 12:07	1

Client Sample ID: LC34-DPT1014-013.0-20231025
Lab Sample ID: 670-29324-20

Date Collected: 10/25/23 12:20
Matrix: Water
Date Received: 10/26/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			11/01/23 12:07	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			11/01/23 12:07	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			11/01/23 12:07	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			11/01/23 12:07	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			11/01/23 12:07	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			11/01/23 12:07	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			11/01/23 12:07	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			11/01/23 12:07	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			11/01/23 12:07	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			11/01/23 12:07	1
o-Xylene	0.26	U	1.0	0.26	ug/L			11/01/23 12:07	1
Styrene	0.27	U	1.0	0.27	ug/L			11/01/23 12:07	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			11/01/23 12:07	1
Toluene	0.25	U	1.0	0.25	ug/L			11/01/23 12:07	1
trans-1,2-Dichloroethene	**0.52**	**I**	1.0	0.34	ug/L			11/01/23 12:07	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			11/01/23 12:07	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			11/01/23 12:07	1
Trichlorofluoromethane	0.33	U J3	1.0	0.33	ug/L			11/01/23 12:07	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/01/23 12:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 124*		*11/01/23 12:07*	*1*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*11/01/23 12:07*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*11/01/23 12:07*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*11/01/23 12:07*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**200**		2.0	0.50	ug/L			11/01/23 15:12	2
Vinyl chloride	**220**		2.0	0.80	ug/L			11/01/23 15:12	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 124*		*11/01/23 15:12*	*2*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*11/01/23 15:12*	*2*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*11/01/23 15:12*	*2*
Toluene-d8 (Surr)	*100*		*70 - 130*		*11/01/23 15:12*	*2*

Client Sample ID: LC34-DPT1014-018.0-20231025
Lab Sample ID: 670-29324-21

Date Collected: 10/25/23 12:35
Matrix: Water
Date Received: 10/26/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.42	U	2.0	0.42	ug/L			11/01/23 14:50	2
1,1,2,2-Tetrachloroethane	0.80	U	2.0	0.80	ug/L			11/01/23 14:50	2
1,1,2-Trichloro-1,2,2-trifluoroethane	0.46	U	2.0	0.46	ug/L			11/01/23 14:50	2
1,1,2-Trichloroethane	0.64	U	2.0	0.64	ug/L			11/01/23 14:50	2
1,1-Dichloroethane	0.66	U	2.0	0.66	ug/L			11/01/23 14:50	2
1,1-Dichloroethene	0.66	U	2.0	0.66	ug/L			11/01/23 14:50	2
1,2,4-Trichlorobenzene	1.1	U	10	1.1	ug/L			11/01/23 14:50	2
1,2-Dibromo-3-Chloropropane	3.6	U	10	3.6	ug/L			11/01/23 14:50	2

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-29324-1

Client Sample ID: LC34-DPT1014-018.0-20231025
Date Collected: 10/25/23 12:35
Date Received: 10/26/23 08:00

Lab Sample ID: 670-29324-21
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	0.66	U	2.0	0.66	ug/L			11/01/23 14:50	2
1,2-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			11/01/23 14:50	2
1,2-Dichloroethane	0.50	U	2.0	0.50	ug/L			11/01/23 14:50	2
1,2-Dichloropropane	0.44	U	2.0	0.44	ug/L			11/01/23 14:50	2
1,3-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			11/01/23 14:50	2
1,4-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			11/01/23 14:50	2
2-Butanone (MEK)	13	U	20	13	ug/L			11/01/23 14:50	2
2-Hexanone	6.4	U	20	6.4	ug/L			11/01/23 14:50	2
4-Methyl-2-pentanone	5.4	U	20	5.4	ug/L			11/01/23 14:50	2
Acetone	7.4	U	20	7.4	ug/L			11/01/23 14:50	2
Benzene	0.54	U	2.0	0.54	ug/L			11/01/23 14:50	2
Bromodichloromethane	0.50	U	2.0	0.50	ug/L			11/01/23 14:50	2
Bromoform	1.2	U	2.0	1.2	ug/L			11/01/23 14:50	2
Bromomethane	7.4	U	10	7.4	ug/L			11/01/23 14:50	2
Carbon disulfide	0.86	U	4.0	0.86	ug/L			11/01/23 14:50	2
Carbon tetrachloride	0.60	U	2.0	0.60	ug/L			11/01/23 14:50	2
Chlorobenzene	0.30	U	2.0	0.30	ug/L			11/01/23 14:50	2
Chloroethane	9.2	U	10	9.2	ug/L			11/01/23 14:50	2
Chloroform	0.54	U	2.0	0.54	ug/L			11/01/23 14:50	2
Chloromethane	1.1	U	2.0	1.1	ug/L			11/01/23 14:50	2
cis-1,2-Dichloroethene	**190**		2.0	0.50	ug/L			11/01/23 14:50	2
cis-1,3-Dichloropropene	0.52	U	2.0	0.52	ug/L			11/01/23 14:50	2
Cyclohexane	0.56	U	2.0	0.56	ug/L			11/01/23 14:50	2
Dibromochloromethane	0.78	U	2.0	0.78	ug/L			11/01/23 14:50	2
Dichlorodifluoromethane	0.72	U	2.0	0.72	ug/L			11/01/23 14:50	2
Ethylbenzene	0.40	U	2.0	0.40	ug/L			11/01/23 14:50	2
Isopropylbenzene	0.52	U	2.0	0.52	ug/L			11/01/23 14:50	2
m,p-Xylenes	0.98	U	2.0	0.98	ug/L			11/01/23 14:50	2
Methyl acetate	6.4	U	10	6.4	ug/L			11/01/23 14:50	2
Methyl tert-butyl ether	1.6	U	10	1.6	ug/L			11/01/23 14:50	2
Methylene Chloride	6.4	U	10	6.4	ug/L			11/01/23 14:50	2
o-Xylene	0.52	U	2.0	0.52	ug/L			11/01/23 14:50	2
Styrene	0.54	U	2.0	0.54	ug/L			11/01/23 14:50	2
Tetrachloroethene	0.70	U	2.0	0.70	ug/L			11/01/23 14:50	2
Toluene	0.50	U	2.0	0.50	ug/L			11/01/23 14:50	2
trans-1,2-Dichloroethene	**3.3**		2.0	0.68	ug/L			11/01/23 14:50	2
trans-1,3-Dichloropropene	0.46	U	2.0	0.46	ug/L			11/01/23 14:50	2
Trichloroethene	0.40	U	2.0	0.40	ug/L			11/01/23 14:50	2
Trichlorofluoromethane	0.66	U J3	2.0	0.66	ug/L			11/01/23 14:50	2
Vinyl chloride	**340**		2.0	0.80	ug/L			11/01/23 14:50	2
Xylenes, Total	0.46	U	2.0	0.46	ug/L			11/01/23 14:50	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 124*		*11/01/23 14:50*	*2*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*11/01/23 14:50*	*2*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*11/01/23 14:50*	*2*
Toluene-d8 (Surr)	*101*		*70 - 130*		*11/01/23 14:50*	*2*

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-29324-1

Client Sample ID: LC34-DPT1014-025.0-20231025
Date Collected: 10/25/23 12:50
Date Received: 10/26/23 08:00

Lab Sample ID: 670-29324-22
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			11/01/23 12:26	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			11/01/23 12:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			11/01/23 12:26	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			11/01/23 12:26	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			11/01/23 12:26	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			11/01/23 12:26	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			11/01/23 12:26	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			11/01/23 12:26	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			11/01/23 12:26	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/01/23 12:26	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			11/01/23 12:26	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			11/01/23 12:26	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/01/23 12:26	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/01/23 12:26	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			11/01/23 12:26	1
2-Hexanone	3.2	U	10	3.2	ug/L			11/01/23 12:26	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			11/01/23 12:26	1
Acetone	3.7	U	10	3.7	ug/L			11/01/23 12:26	1
Benzene	0.27	U	1.0	0.27	ug/L			11/01/23 12:26	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			11/01/23 12:26	1
Bromoform	0.59	U	1.0	0.59	ug/L			11/01/23 12:26	1
Bromomethane	3.7	U	5.0	3.7	ug/L			11/01/23 12:26	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			11/01/23 12:26	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			11/01/23 12:26	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			11/01/23 12:26	1
Chloroethane	4.6	U	5.0	4.6	ug/L			11/01/23 12:26	1
Chloroform	0.27	U	1.0	0.27	ug/L			11/01/23 12:26	1
Chloromethane	0.54	U	1.0	0.54	ug/L			11/01/23 12:26	1
cis-1,2-Dichloroethene	**3.1**		1.0	0.25	ug/L			11/01/23 12:26	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			11/01/23 12:26	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			11/01/23 12:26	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			11/01/23 12:26	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			11/01/23 12:26	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			11/01/23 12:26	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			11/01/23 12:26	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			11/01/23 12:26	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			11/01/23 12:26	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			11/01/23 12:26	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			11/01/23 12:26	1
o-Xylene	0.26	U	1.0	0.26	ug/L			11/01/23 12:26	1
Styrene	0.27	U	1.0	0.27	ug/L			11/01/23 12:26	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			11/01/23 12:26	1
Toluene	0.25	U	1.0	0.25	ug/L			11/01/23 12:26	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			11/01/23 12:26	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			11/01/23 12:26	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			11/01/23 12:26	1
Trichlorofluoromethane	0.33	U J3	1.0	0.33	ug/L			11/01/23 12:26	1
Vinyl chloride	**29**		1.0	0.40	ug/L			11/01/23 12:26	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/01/23 12:26	1

Client Sample ID: LC34-DPT1014-025.0-20231025
Lab Sample ID: 670-29324-22

Date Collected: 10/25/23 12:50
Matrix: Water
Date Received: 10/26/23 08:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 124*		*11/01/23 12:26*	*1*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*11/01/23 12:26*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*11/01/23 12:26*	*1*
Toluene-d8 (Surr)	*81*		*70 - 130*		*11/01/23 12:26*	*1*

Client Sample ID: LC34-DPT1014-034.0-20231025
Lab Sample ID: 670-29324-23

Date Collected: 10/25/23 13:05
Matrix: Water
Date Received: 10/26/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			11/01/23 12:45	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			11/01/23 12:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			11/01/23 12:45	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			11/01/23 12:45	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			11/01/23 12:45	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			11/01/23 12:45	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			11/01/23 12:45	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			11/01/23 12:45	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			11/01/23 12:45	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/01/23 12:45	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			11/01/23 12:45	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			11/01/23 12:45	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/01/23 12:45	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/01/23 12:45	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			11/01/23 12:45	1
2-Hexanone	3.2	U	10	3.2	ug/L			11/01/23 12:45	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			11/01/23 12:45	1
Acetone	3.7	U	10	3.7	ug/L			11/01/23 12:45	1
Benzene	0.27	U	1.0	0.27	ug/L			11/01/23 12:45	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			11/01/23 12:45	1
Bromoform	0.59	U	1.0	0.59	ug/L			11/01/23 12:45	1
Bromomethane	3.7	U	5.0	3.7	ug/L			11/01/23 12:45	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			11/01/23 12:45	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			11/01/23 12:45	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			11/01/23 12:45	1
Chloroethane	4.6	U	5.0	4.6	ug/L			11/01/23 12:45	1
Chloroform	0.27	U	1.0	0.27	ug/L			11/01/23 12:45	1
Chloromethane	0.54	U	1.0	0.54	ug/L			11/01/23 12:45	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			11/01/23 12:45	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			11/01/23 12:45	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			11/01/23 12:45	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			11/01/23 12:45	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			11/01/23 12:45	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			11/01/23 12:45	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			11/01/23 12:45	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			11/01/23 12:45	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			11/01/23 12:45	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			11/01/23 12:45	1
o-Xylene	0.26	U	1.0	0.26	ug/L			11/01/23 12:45	1

Client Sample ID: LC34-DPT1014-034.0-20231025
Lab Sample ID: 670-29324-23

Date Collected: 10/25/23 13:05
Matrix: Water
Date Received: 10/26/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.27	U	1.0	0.27	ug/L			11/01/23 12:45	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			11/01/23 12:45	1
Toluene	0.25	U	1.0	0.25	ug/L			11/01/23 12:45	1
trans-1,2-Dichloroethene	**0.51**	**I**	1.0	0.34	ug/L			11/01/23 12:45	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			11/01/23 12:45	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			11/01/23 12:45	1
Trichlorofluoromethane	0.33	U J3	1.0	0.33	ug/L			11/01/23 12:45	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/01/23 12:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 124*		*11/01/23 12:45*	*1*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*11/01/23 12:45*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*11/01/23 12:45*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*11/01/23 12:45*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**250**		2.0	0.50	ug/L			11/01/23 15:33	2
Vinyl chloride	**16**		2.0	0.80	ug/L			11/01/23 15:33	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 124*		*11/01/23 15:33*	*2*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*11/01/23 15:33*	*2*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*11/01/23 15:33*	*2*
Toluene-d8 (Surr)	*100*		*70 - 130*		*11/01/23 15:33*	*2*

Client Sample ID: LC34-DPT1014-038.0-20231025
Lab Sample ID: 670-29324-24

Date Collected: 10/25/23 13:25
Matrix: Water
Date Received: 10/26/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			11/01/23 13:03	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			11/01/23 13:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			11/01/23 13:03	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			11/01/23 13:03	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			11/01/23 13:03	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			11/01/23 13:03	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			11/01/23 13:03	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			11/01/23 13:03	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			11/01/23 13:03	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/01/23 13:03	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			11/01/23 13:03	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			11/01/23 13:03	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/01/23 13:03	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/01/23 13:03	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			11/01/23 13:03	1
2-Hexanone	3.2	U	10	3.2	ug/L			11/01/23 13:03	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			11/01/23 13:03	1
Acetone	3.7	U	10	3.7	ug/L			11/01/23 13:03	1
Benzene	0.27	U	1.0	0.27	ug/L			11/01/23 13:03	1

Client: Tetra Tech, Inc.
Job ID: 670-29324-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT1014-038.0-20231025
Lab Sample ID: 670-29324-24
Date Collected: 10/25/23 13:25
Matrix: Water
Date Received: 10/26/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			11/01/23 13:03	1
Bromoform	0.59	U	1.0	0.59	ug/L			11/01/23 13:03	1
Bromomethane	3.7	U	5.0	3.7	ug/L			11/01/23 13:03	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			11/01/23 13:03	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			11/01/23 13:03	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			11/01/23 13:03	1
Chloroethane	4.6	U	5.0	4.6	ug/L			11/01/23 13:03	1
Chloroform	0.27	U	1.0	0.27	ug/L			11/01/23 13:03	1
Chloromethane	0.54	U	1.0	0.54	ug/L			11/01/23 13:03	1
cis-1,2-Dichloroethene	**0.31**	**I**	1.0	0.25	ug/L			11/01/23 13:03	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			11/01/23 13:03	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			11/01/23 13:03	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			11/01/23 13:03	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			11/01/23 13:03	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			11/01/23 13:03	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			11/01/23 13:03	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			11/01/23 13:03	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			11/01/23 13:03	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			11/01/23 13:03	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			11/01/23 13:03	1
o-Xylene	0.26	U	1.0	0.26	ug/L			11/01/23 13:03	1
Styrene	0.27	U	1.0	0.27	ug/L			11/01/23 13:03	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			11/01/23 13:03	1
Toluene	0.25	U	1.0	0.25	ug/L			11/01/23 13:03	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			11/01/23 13:03	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			11/01/23 13:03	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			11/01/23 13:03	1
Trichlorofluoromethane	0.33	U J3	1.0	0.33	ug/L			11/01/23 13:03	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			11/01/23 13:03	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/01/23 13:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 124*		*11/01/23 13:03*	*1*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*11/01/23 13:03*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*11/01/23 13:03*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*11/01/23 13:03*	*1*

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-29324-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(60-124)	(70-130)	(70-130)	(70-130)
670-29324-1	LC34-DPT1011-008.0-20231024	91	94	92	93
670-29324-2	LC34-DPT1011-013.0-20231024	92	92	92	115
670-29324-3	LC34-DPT1011-018.0-20231024	95	95	96	103
670-29324-4	LC34-DPT1011-025.0-20231024	91	99	91	102
670-29324-5	LC34-DPT1011-034.0-20231024	71	108	71	109
670-29324-6	LC34-DPT1011-038.0-20231024	90	103	91	106
670-29324-7	LC34-DPT1012-008.0-20231025	92	97	95	107
670-29324-8	LC34-DPT1012-013.0-20231025	104	102	100	104
670-29324-9	LC34-DPT1012-018.0-20231025	98	104	97	100
670-29324-10	LC34-DPT1012-025.0-20231025	91	110	92	107
670-29324-11	LC34-DPT1012-034.0-20231025	94	101	95	107
670-29324-12	LC34-DPT1012-038.0-20231025	94	95	97	108
670-29324-13	LC34-DPT1013-008.0-20231025	92	90	92	97
670-29324-14	LC34-DPT1013-013.0-20231025	90	96	92	100
670-29324-15	LC34-DPT1013-018.0-20231025	89	100	89	100
670-29324-16	LC34-DPT1013-025.0-20231025	90	109	93	112
670-29324-17	LC34-DPT1013-034.0-20231025	98	102	100	83
670-29324-18	LC34-DPT1013-038.0-20231025	83	100	88	92
670-29324-19	LC34-DPT1014-008.0-20231025	98	105	98	93
670-29324-20	LC34-DPT1014-013.0-20231025	100	104	103	99
670-29324-20 - DL	LC34-DPT1014-013.0-20231025	100	105	97	100
670-29324-21	LC34-DPT1014-018.0-20231025	99	103	98	101
670-29324-22	LC34-DPT1014-025.0-20231025	99	104	100	81
670-29324-23	LC34-DPT1014-034.0-20231025	98	104	99	98
670-29324-23 - DL	LC34-DPT1014-034.0-20231025	101	102	100	100
670-29324-24	LC34-DPT1014-038.0-20231025	101	104	101	97
LCS 680-805493/5	Lab Control Sample	94	102	97	94
LCS 680-805498/3	Lab Control Sample	105	98	105	97
LCS 680-805692/4	Lab Control Sample	125 J1	97	119	113
LCS 680-805700/3	Lab Control Sample	109	100	111	108
LCSD 680-805493/6	Lab Control Sample Dup	90	92	94	97

Surrogate Summary

Client: Tetra Tech, Inc. Job ID: 670-29324-1
Project/Site: NASA KSC LC34 DPT

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(60-124)	(70-130)	(70-130)	(70-130)
LCSD 680-805498/4	Lab Control Sample Dup	109	104	105	97
LCSD 680-805692/5	Lab Control Sample Dup	128 J1	92	118	114
LCSD 680-805700/4	Lab Control Sample Dup	117	97	118	97
MB 680-805493/9	Method Blank	72	106	76	103
MB 680-805498/7	Method Blank	90	93	93	114
MB 680-805692/8	Method Blank	98	113	98	98
MB 680-805700/7	Method Blank	91	96	91	100

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 680-805493/9
Matrix: Water
Analysis Batch: 805493

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/31/23 11:43	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/31/23 11:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/31/23 11:43	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/31/23 11:43	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/31/23 11:43	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/31/23 11:43	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/31/23 11:43	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/31/23 11:43	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/31/23 11:43	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/31/23 11:43	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/31/23 11:43	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/31/23 11:43	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/31/23 11:43	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/31/23 11:43	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/31/23 11:43	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/31/23 11:43	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/31/23 11:43	1
Acetone	3.7	U	10	3.7	ug/L			10/31/23 11:43	1
Benzene	0.27	U	1.0	0.27	ug/L			10/31/23 11:43	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/31/23 11:43	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/31/23 11:43	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/31/23 11:43	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/31/23 11:43	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/31/23 11:43	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/31/23 11:43	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/31/23 11:43	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/31/23 11:43	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/31/23 11:43	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/31/23 11:43	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/31/23 11:43	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/31/23 11:43	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/31/23 11:43	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/31/23 11:43	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/31/23 11:43	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/31/23 11:43	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/31/23 11:43	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/31/23 11:43	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/31/23 11:43	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/31/23 11:43	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/31/23 11:43	1
Styrene	0.27	U	1.0	0.27	ug/L			10/31/23 11:43	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/31/23 11:43	1
Toluene	0.25	U	1.0	0.25	ug/L			10/31/23 11:43	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/31/23 11:43	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/31/23 11:43	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/31/23 11:43	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/31/23 11:43	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/31/23 11:43	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-805493/9
Matrix: Water
Analysis Batch: 805493

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/31/23 11:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*72*		*60 - 124*		*10/31/23 11:43*	*1*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*		*10/31/23 11:43*	*1*
Dibromofluoromethane (Surr)	*76*		*70 - 130*		*10/31/23 11:43*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*10/31/23 11:43*	*1*

Lab Sample ID: LCS 680-805493/5
Matrix: Water
Analysis Batch: 805493

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	52.3		ug/L		105	70 - 130
1,1,2,2-Tetrachloroethane	50.0	53.6		ug/L		107	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	41.6		ug/L		83	63 - 141
1,1,2-Trichloroethane	50.0	56.8		ug/L		114	70 - 130
1,1-Dichloroethane	50.0	50.7		ug/L		101	70 - 130
1,1-Dichloroethene	50.0	41.7		ug/L		83	70 - 130
1,2,4-Trichlorobenzene	50.0	53.5		ug/L		107	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	53.5		ug/L		107	70 - 130
1,2-Dibromoethane (EDB)	50.0	57.0		ug/L		114	70 - 130
1,2-Dichlorobenzene	50.0	51.2		ug/L		102	70 - 130
1,2-Dichloroethane	50.0	50.4		ug/L		101	70 - 130
1,2-Dichloropropane	50.0	52.5		ug/L		105	70 - 130
1,3-Dichlorobenzene	50.0	51.3		ug/L		103	70 - 130
1,4-Dichlorobenzene	50.0	50.1		ug/L		100	70 - 130
2-Butanone (MEK)	250	269		ug/L		108	69 - 120
2-Hexanone	250	323		ug/L		129	70 - 130
4-Methyl-2-pentanone	250	297		ug/L		119	68 - 120
Acetone	250	309	J3	ug/L		124	67 - 120
Benzene	50.0	50.3		ug/L		101	70 - 130
Bromodichloromethane	50.0	56.8		ug/L		114	70 - 130
Bromoform	50.0	44.3		ug/L		89	69 - 129
Bromomethane	50.0	34.6		ug/L		69	28 - 192
Carbon disulfide	50.0	43.0		ug/L		86	70 - 130
Carbon tetrachloride	50.0	46.4		ug/L		93	70 - 130
Chlorobenzene	50.0	50.7		ug/L		101	70 - 130
Chloroethane	50.0	33.4		ug/L		67	31 - 213
Chloroform	50.0	50.3		ug/L		101	70 - 130
Chloromethane	50.0	44.2		ug/L		88	59 - 127
cis-1,2-Dichloroethene	50.0	50.2		ug/L		100	70 - 130
cis-1,3-Dichloropropene	50.0	50.0		ug/L		100	70 - 130
Cyclohexane	50.0	46.8		ug/L		94	23 - 175
Dibromochloromethane	50.0	51.5		ug/L		103	70 - 130
Dichlorodifluoromethane	50.0	43.2		ug/L		86	70 - 130
Ethylbenzene	50.0	50.1		ug/L		100	70 - 130
Isopropylbenzene	50.0	52.0		ug/L		104	70 - 130

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-805493/5
Matrix: Water
Analysis Batch: 805493

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
m,p-Xylenes	50.0	50.9		ug/L		102	70 - 130
Methyl acetate	100	85.3		ug/L		85	67 - 120
Methyl tert-butyl ether	50.0	52.4		ug/L		105	70 - 130
Methylene Chloride	50.0	51.2		ug/L		102	70 - 130
o-Xylene	50.0	51.5		ug/L		103	70 - 130
Styrene	50.0	52.1		ug/L		104	70 - 130
Tetrachloroethene	50.0	57.8		ug/L		116	70 - 130
Toluene	50.0	57.2		ug/L		114	70 - 130
trans-1,2-Dichloroethene	50.0	49.7		ug/L		99	70 - 130
trans-1,3-Dichloropropene	50.0	52.7		ug/L		105	70 - 130
Trichloroethene	50.0	54.8		ug/L		110	70 - 130
Trichlorofluoromethane	50.0	47.5		ug/L		95	63 - 142
Vinyl chloride	50.0	41.7		ug/L		83	66 - 129
Xylenes, Total	100	102		ug/L		102	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
Dibromofluoromethane (Surr)	*97*		*70 - 130*
Toluene-d8 (Surr)	*94*		*70 - 130*

Lab Sample ID: LCSD 680-805493/6
Matrix: Water
Analysis Batch: 805493

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	50.0	50.0		ug/L		100	70 - 130	4	30
1,1,2,2-Tetrachloroethane	50.0	54.5		ug/L		109	70 - 130	2	30
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	50.7		ug/L		101	63 - 141	20	30
1,1,2-Trichloroethane	50.0	51.3		ug/L		103	70 - 130	10	30
1,1-Dichloroethane	50.0	48.2		ug/L		96	70 - 130	5	30
1,1-Dichloroethene	50.0	44.9		ug/L		90	70 - 130	7	20
1,2,4-Trichlorobenzene	50.0	49.4		ug/L		99	70 - 130	8	30
1,2-Dibromo-3-Chloropropane	50.0	51.1		ug/L		102	70 - 130	5	30
1,2-Dibromoethane (EDB)	50.0	49.9		ug/L		100	70 - 130	13	30
1,2-Dichlorobenzene	50.0	50.8		ug/L		102	70 - 130	1	30
1,2-Dichloroethane	50.0	48.7		ug/L		97	70 - 130	3	50
1,2-Dichloropropane	50.0	48.4		ug/L		97	70 - 130	8	20
1,3-Dichlorobenzene	50.0	51.1		ug/L		102	70 - 130	0	30
1,4-Dichlorobenzene	50.0	50.1		ug/L		100	70 - 130	0	30
2-Butanone (MEK)	250	278		ug/L		111	69 - 120	3	30
2-Hexanone	250	274		ug/L		109	70 - 130	16	20
4-Methyl-2-pentanone	250	270		ug/L		108	68 - 120	10	30
Acetone	250	312	J3	ug/L		125	67 - 120	1	30
Benzene	50.0	50.0		ug/L		100	70 - 130	1	30
Bromodichloromethane	50.0	52.0		ug/L		104	70 - 130	9	30
Bromoform	50.0	47.1		ug/L		94	69 - 129	6	30
Bromomethane	50.0	35.0		ug/L		70	28 - 192	1	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-805493/6
Matrix: Water
Analysis Batch: 805493

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon disulfide	50.0	40.0		ug/L		80	70 - 130	7	30
Carbon tetrachloride	50.0	44.1		ug/L		88	70 - 130	5	30
Chlorobenzene	50.0	50.7		ug/L		101	70 - 130	0	30
Chloroethane	50.0	31.4		ug/L		63	31 - 213	6	30
Chloroform	50.0	49.6		ug/L		99	70 - 130	1	30
Chloromethane	50.0	42.6		ug/L		85	59 - 127	4	30
cis-1,2-Dichloroethene	50.0	48.6		ug/L		97	70 - 130	3	30
cis-1,3-Dichloropropene	50.0	46.4		ug/L		93	70 - 130	7	20
Cyclohexane	50.0	45.6		ug/L		91	23 - 175	3	30
Dibromochloromethane	50.0	45.5		ug/L		91	70 - 130	12	30
Dichlorodifluoromethane	50.0	42.0		ug/L		84	70 - 130	3	40
Ethylbenzene	50.0	49.8		ug/L		100	70 - 130	1	20
Isopropylbenzene	50.0	50.9		ug/L		102	70 - 130	2	30
m,p-Xylenes	50.0	50.9		ug/L		102	70 - 130	0	30
Methyl acetate	100	87.7		ug/L		88	67 - 120	3	30
Methyl tert-butyl ether	50.0	54.4		ug/L		109	70 - 130	4	30
Methylene Chloride	50.0	49.5		ug/L		99	70 - 130	3	30
o-Xylene	50.0	51.3		ug/L		103	70 - 130	0	30
Styrene	50.0	52.1		ug/L		104	70 - 130	0	30
Tetrachloroethene	50.0	48.9		ug/L		98	70 - 130	17	30
Toluene	50.0	50.0		ug/L		100	70 - 130	14	30
trans-1,2-Dichloroethene	50.0	49.3		ug/L		99	70 - 130	1	30
trans-1,3-Dichloropropene	50.0	46.7		ug/L		93	70 - 130	12	30
Trichloroethene	50.0	49.4		ug/L		99	70 - 130	10	30
Trichlorofluoromethane	50.0	45.3		ug/L		91	63 - 142	5	30
Vinyl chloride	50.0	41.0		ug/L		82	66 - 129	2	30
Xylenes, Total	100	102		ug/L		102	70 - 130	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*90*		*60 - 124*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*
Dibromofluoromethane (Surr)	*94*		*70 - 130*
Toluene-d8 (Surr)	*97*		*70 - 130*

Lab Sample ID: MB 680-805498/7
Matrix: Water
Analysis Batch: 805498

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			10/31/23 11:58	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			10/31/23 11:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			10/31/23 11:58	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			10/31/23 11:58	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			10/31/23 11:58	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			10/31/23 11:58	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			10/31/23 11:58	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			10/31/23 11:58	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			10/31/23 11:58	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-805498/7
Matrix: Water
Analysis Batch: 805498

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/31/23 11:58	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			10/31/23 11:58	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			10/31/23 11:58	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/31/23 11:58	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			10/31/23 11:58	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			10/31/23 11:58	1
2-Hexanone	3.2	U	10	3.2	ug/L			10/31/23 11:58	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			10/31/23 11:58	1
Acetone	3.7	U	10	3.7	ug/L			10/31/23 11:58	1
Benzene	0.27	U	1.0	0.27	ug/L			10/31/23 11:58	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			10/31/23 11:58	1
Bromoform	0.59	U	1.0	0.59	ug/L			10/31/23 11:58	1
Bromomethane	3.7	U	5.0	3.7	ug/L			10/31/23 11:58	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			10/31/23 11:58	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			10/31/23 11:58	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			10/31/23 11:58	1
Chloroethane	4.6	U	5.0	4.6	ug/L			10/31/23 11:58	1
Chloroform	0.27	U	1.0	0.27	ug/L			10/31/23 11:58	1
Chloromethane	0.54	U	1.0	0.54	ug/L			10/31/23 11:58	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			10/31/23 11:58	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			10/31/23 11:58	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			10/31/23 11:58	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			10/31/23 11:58	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			10/31/23 11:58	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			10/31/23 11:58	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			10/31/23 11:58	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			10/31/23 11:58	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			10/31/23 11:58	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			10/31/23 11:58	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			10/31/23 11:58	1
o-Xylene	0.26	U	1.0	0.26	ug/L			10/31/23 11:58	1
Styrene	0.27	U	1.0	0.27	ug/L			10/31/23 11:58	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			10/31/23 11:58	1
Toluene	0.25	U	1.0	0.25	ug/L			10/31/23 11:58	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			10/31/23 11:58	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			10/31/23 11:58	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			10/31/23 11:58	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			10/31/23 11:58	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			10/31/23 11:58	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			10/31/23 11:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*60 - 124*		*10/31/23 11:58*	*1*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*10/31/23 11:58*	*1*
Dibromofluoromethane (Surr)	*93*		*70 - 130*		*10/31/23 11:58*	*1*
Toluene-d8 (Surr)	*114*		*70 - 130*		*10/31/23 11:58*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-805498/3
Matrix: Water
Analysis Batch: 805498

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	51.3		ug/L		103	70 - 130
1,1,2,2-Tetrachloroethane	50.0	51.1		ug/L		102	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	51.3		ug/L		103	63 - 141
1,1,2-Trichloroethane	50.0	51.0		ug/L		102	70 - 130
1,1-Dichloroethane	50.0	49.4		ug/L		99	70 - 130
1,1-Dichloroethene	50.0	54.3		ug/L		109	70 - 130
1,2,4-Trichlorobenzene	50.0	46.8		ug/L		94	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	37.6		ug/L		75	70 - 130
1,2-Dibromoethane (EDB)	50.0	50.3		ug/L		101	70 - 130
1,2-Dichlorobenzene	50.0	47.1		ug/L		94	70 - 130
1,2-Dichloroethane	50.0	53.7		ug/L		107	70 - 130
1,2-Dichloropropane	50.0	49.8		ug/L		100	70 - 130
1,3-Dichlorobenzene	50.0	50.1		ug/L		100	70 - 130
1,4-Dichlorobenzene	50.0	49.7		ug/L		99	70 - 130
2-Butanone (MEK)	250	258		ug/L		103	69 - 120
2-Hexanone	250	271		ug/L		108	70 - 130
4-Methyl-2-pentanone	250	255		ug/L		102	68 - 120
Acetone	250	256		ug/L		103	67 - 120
Benzene	50.0	52.5		ug/L		105	70 - 130
Bromodichloromethane	50.0	50.0		ug/L		100	70 - 130
Bromoform	50.0	57.9		ug/L		116	69 - 129
Bromomethane	50.0	46.8		ug/L		94	28 - 192
Carbon disulfide	50.0	53.6		ug/L		107	70 - 130
Carbon tetrachloride	50.0	53.7		ug/L		107	70 - 130
Chlorobenzene	50.0	49.3		ug/L		99	70 - 130
Chloroethane	50.0	46.3		ug/L		93	31 - 213
Chloroform	50.0	54.4		ug/L		109	70 - 130
Chloromethane	50.0	47.2		ug/L		94	59 - 127
cis-1,2-Dichloroethene	50.0	54.6		ug/L		109	70 - 130
cis-1,3-Dichloropropene	50.0	50.3		ug/L		101	70 - 130
Cyclohexane	50.0	55.6		ug/L		111	23 - 175
Dibromochloromethane	50.0	50.3		ug/L		101	70 - 130
Dichlorodifluoromethane	50.0	45.3		ug/L		91	70 - 130
Ethylbenzene	50.0	49.6		ug/L		99	70 - 130
Isopropylbenzene	50.0	52.8		ug/L		106	70 - 130
m,p-Xylenes	50.0	50.5		ug/L		101	70 - 130
Methyl acetate	100	98.3		ug/L		98	67 - 120
Methyl tert-butyl ether	50.0	50.8		ug/L		102	70 - 130
Methylene Chloride	50.0	50.7		ug/L		101	70 - 130
o-Xylene	50.0	51.5		ug/L		103	70 - 130
Styrene	50.0	53.5		ug/L		107	70 - 130
Tetrachloroethene	50.0	52.6		ug/L		105	70 - 130
Toluene	50.0	50.5		ug/L		101	70 - 130
trans-1,2-Dichloroethene	50.0	54.2		ug/L		108	70 - 130
trans-1,3-Dichloropropene	50.0	48.8		ug/L		98	70 - 130
Trichloroethene	50.0	50.5		ug/L		101	70 - 130
Trichlorofluoromethane	50.0	43.3		ug/L		87	63 - 142
Vinyl chloride	50.0	44.7		ug/L		89	66 - 129

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-805498/3
Matrix: Water
Analysis Batch: 805498

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Xylenes, Total			100	102		ug/L		102	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 124*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
Dibromofluoromethane (Surr)	*105*		*70 - 130*
Toluene-d8 (Surr)	*97*		*70 - 130*

Lab Sample ID: LCSD 680-805498/4
Matrix: Water
Analysis Batch: 805498

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane			50.0	49.3		ug/L		99	70 - 130	4	30
1,1,2,2-Tetrachloroethane			50.0	56.8		ug/L		114	70 - 130	11	30
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	50.2		ug/L		100	63 - 141	2	30
1,1,2-Trichloroethane			50.0	57.3		ug/L		115	70 - 130	12	30
1,1-Dichloroethane			50.0	53.6		ug/L		107	70 - 130	8	30
1,1-Dichloroethene			50.0	52.3		ug/L		105	70 - 130	4	20
1,2,4-Trichlorobenzene			50.0	46.7		ug/L		93	70 - 130	0	30
1,2-Dibromo-3-Chloropropane			50.0	42.9		ug/L		86	70 - 130	13	30
1,2-Dibromoethane (EDB)			50.0	56.2		ug/L		112	70 - 130	11	30
1,2-Dichlorobenzene			50.0	47.9		ug/L		96	70 - 130	2	30
1,2-Dichloroethane			50.0	56.5		ug/L		113	70 - 130	5	50
1,2-Dichloropropane			50.0	53.8		ug/L		108	70 - 130	8	20
1,3-Dichlorobenzene			50.0	50.9		ug/L		102	70 - 130	2	30
1,4-Dichlorobenzene			50.0	50.0		ug/L		100	70 - 130	0	30
2-Butanone (MEK)			250	347	J3	ug/L		139	69 - 120	29	30
2-Hexanone			250	337	J3	ug/L		135	70 - 130	22	20
4-Methyl-2-pentanone			250	316	J3	ug/L		127	68 - 120	21	30
Acetone			250	320	J3	ug/L		128	67 - 120	22	30
Benzene			50.0	52.1		ug/L		104	70 - 130	1	30
Bromodichloromethane			50.0	56.4		ug/L		113	70 - 130	12	30
Bromoform			50.0	65.5	J3	ug/L		131	69 - 129	12	30
Bromomethane			50.0	48.1		ug/L		96	28 - 192	3	30
Carbon disulfide			50.0	55.8		ug/L		112	70 - 130	4	30
Carbon tetrachloride			50.0	51.3		ug/L		103	70 - 130	5	30
Chlorobenzene			50.0	49.9		ug/L		100	70 - 130	1	30
Chloroethane			50.0	47.5		ug/L		95	31 - 213	3	30
Chloroform			50.0	55.6		ug/L		111	70 - 130	2	30
Chloromethane			50.0	47.1		ug/L		94	59 - 127	0	30
cis-1,2-Dichloroethene			50.0	60.5		ug/L		121	70 - 130	10	30
cis-1,3-Dichloropropene			50.0	55.6		ug/L		111	70 - 130	10	20
Cyclohexane			50.0	51.1		ug/L		102	23 - 175	8	30
Dibromochloromethane			50.0	54.4		ug/L		109	70 - 130	8	30
Dichlorodifluoromethane			50.0	43.7		ug/L		87	70 - 130	4	40
Ethylbenzene			50.0	49.8		ug/L		100	70 - 130	0	20
Isopropylbenzene			50.0	55.1		ug/L		110	70 - 130	4	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-805498/4
Matrix: Water
Analysis Batch: 805498

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m,p-Xylenes			50.0	50.1		ug/L		100	70 - 130	1	30
Methyl acetate			100	120		ug/L		120	67 - 120	20	30
Methyl tert-butyl ether			50.0	58.0		ug/L		116	70 - 130	13	30
Methylene Chloride			50.0	53.0		ug/L		106	70 - 130	4	30
o-Xylene			50.0	54.3		ug/L		109	70 - 130	5	30
Styrene			50.0	56.7		ug/L		113	70 - 130	6	30
Tetrachloroethene			50.0	53.1		ug/L		106	70 - 130	1	30
Toluene			50.0	52.6		ug/L		105	70 - 130	4	30
trans-1,2-Dichloroethene			50.0	56.0		ug/L		112	70 - 130	3	30
trans-1,3-Dichloropropene			50.0	52.7		ug/L		105	70 - 130	8	30
Trichloroethene			50.0	51.0		ug/L		102	70 - 130	1	30
Trichlorofluoromethane			50.0	41.6		ug/L		83	63 - 142	4	30
Vinyl chloride			50.0	44.0		ug/L		88	66 - 129	1	30
Xylenes, Total			100	104		ug/L		104	70 - 130	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*109*		*60 - 124*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
Dibromofluoromethane (Surr)	*105*		*70 - 130*
Toluene-d8 (Surr)	*97*		*70 - 130*

Lab Sample ID: MB 680-805692/8
Matrix: Water
Analysis Batch: 805692

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			11/01/23 11:29	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			11/01/23 11:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			11/01/23 11:29	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			11/01/23 11:29	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			11/01/23 11:29	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			11/01/23 11:29	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			11/01/23 11:29	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			11/01/23 11:29	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			11/01/23 11:29	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/01/23 11:29	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			11/01/23 11:29	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			11/01/23 11:29	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/01/23 11:29	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/01/23 11:29	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			11/01/23 11:29	1
2-Hexanone	3.2	U	10	3.2	ug/L			11/01/23 11:29	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			11/01/23 11:29	1
Acetone	3.7	U	10	3.7	ug/L			11/01/23 11:29	1
Benzene	0.27	U	1.0	0.27	ug/L			11/01/23 11:29	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			11/01/23 11:29	1
Bromoform	0.59	U	1.0	0.59	ug/L			11/01/23 11:29	1
Bromomethane	3.7	U	5.0	3.7	ug/L			11/01/23 11:29	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-805692/8
Matrix: Water
Analysis Batch: 805692

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	0.43	U	2.0	0.43	ug/L			11/01/23 11:29	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			11/01/23 11:29	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			11/01/23 11:29	1
Chloroethane	4.6	U	5.0	4.6	ug/L			11/01/23 11:29	1
Chloroform	0.27	U	1.0	0.27	ug/L			11/01/23 11:29	1
Chloromethane	0.54	U	1.0	0.54	ug/L			11/01/23 11:29	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			11/01/23 11:29	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			11/01/23 11:29	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			11/01/23 11:29	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			11/01/23 11:29	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			11/01/23 11:29	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			11/01/23 11:29	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			11/01/23 11:29	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			11/01/23 11:29	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			11/01/23 11:29	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			11/01/23 11:29	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			11/01/23 11:29	1
o-Xylene	0.26	U	1.0	0.26	ug/L			11/01/23 11:29	1
Styrene	0.27	U	1.0	0.27	ug/L			11/01/23 11:29	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			11/01/23 11:29	1
Toluene	0.25	U	1.0	0.25	ug/L			11/01/23 11:29	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			11/01/23 11:29	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			11/01/23 11:29	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			11/01/23 11:29	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			11/01/23 11:29	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			11/01/23 11:29	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/01/23 11:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 124*		*11/01/23 11:29*	*1*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*		*11/01/23 11:29*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*11/01/23 11:29*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*11/01/23 11:29*	*1*

Lab Sample ID: LCS 680-805692/4
Matrix: Water
Analysis Batch: 805692

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	57.3		ug/L		115	70 - 130
1,1,2,2-Tetrachloroethane	50.0	44.9		ug/L		90	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	57.4		ug/L		115	63 - 141
1,1,2-Trichloroethane	50.0	55.9		ug/L		112	70 - 130
1,1-Dichloroethane	50.0	59.2		ug/L		118	70 - 130
1,1-Dichloroethene	50.0	49.1		ug/L		98	70 - 130
1,2,4-Trichlorobenzene	50.0	45.3		ug/L		91	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	36.3		ug/L		73	70 - 130
1,2-Dibromoethane (EDB)	50.0	56.0		ug/L		112	70 - 130

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-805692/4
Matrix: Water
Analysis Batch: 805692

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichlorobenzene	50.0	43.8		ug/L		88	70 - 130
1,2-Dichloroethane	50.0	57.8		ug/L		116	70 - 130
1,2-Dichloropropane	50.0	52.3		ug/L		105	70 - 130
1,3-Dichlorobenzene	50.0	44.7		ug/L		89	70 - 130
1,4-Dichlorobenzene	50.0	46.2		ug/L		92	70 - 130
2-Butanone (MEK)	250	175		ug/L		70	69 - 120
2-Hexanone	250	253		ug/L		101	70 - 130
4-Methyl-2-pentanone	250	219		ug/L		88	68 - 120
Acetone	250	213		ug/L		85	67 - 120
Benzene	50.0	55.8		ug/L		112	70 - 130
Bromodichloromethane	50.0	56.2		ug/L		112	70 - 130
Bromoform	50.0	35.7		ug/L		71	69 - 129
Bromomethane	50.0	70.3		ug/L		141	28 - 192
Carbon disulfide	50.0	51.4		ug/L		103	70 - 130
Carbon tetrachloride	50.0	52.4		ug/L		105	70 - 130
Chlorobenzene	50.0	47.5		ug/L		95	70 - 130
Chloroethane	50.0	59.4		ug/L		119	31 - 213
Chloroform	50.0	59.5		ug/L		119	70 - 130
Chloromethane	50.0	40.1		ug/L		80	59 - 127
cis-1,2-Dichloroethene	50.0	59.0		ug/L		118	70 - 130
cis-1,3-Dichloropropene	50.0	56.5		ug/L		113	70 - 130
Cyclohexane	50.0	53.1		ug/L		106	23 - 175
Dibromochloromethane	50.0	48.4		ug/L		97	70 - 130
Dichlorodifluoromethane	50.0	45.1		ug/L		90	70 - 130
Ethylbenzene	50.0	47.8		ug/L		96	70 - 130
Isopropylbenzene	50.0	48.8		ug/L		98	70 - 130
m,p-Xylenes	50.0	49.7		ug/L		99	70 - 130
Methyl acetate	100	96.9		ug/L		97	67 - 120
Methyl tert-butyl ether	50.0	44.7		ug/L		89	70 - 130
Methylene Chloride	50.0	57.2		ug/L		114	70 - 130
o-Xylene	50.0	48.9		ug/L		98	70 - 130
Styrene	50.0	48.9		ug/L		98	70 - 130
Tetrachloroethene	50.0	51.8		ug/L		104	70 - 130
Toluene	50.0	55.2		ug/L		110	70 - 130
trans-1,2-Dichloroethene	50.0	57.5		ug/L		115	70 - 130
trans-1,3-Dichloropropene	50.0	53.6		ug/L		107	70 - 130
Trichloroethene	50.0	50.1		ug/L		100	70 - 130
Trichlorofluoromethane	50.0	86.8	J3	ug/L		174	63 - 142
Vinyl chloride	50.0	45.5		ug/L		91	66 - 129
Xylenes, Total	100	98.6		ug/L		99	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*125*	*J1*	*60 - 124*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
Dibromofluoromethane (Surr)	*119*		*70 - 130*
Toluene-d8 (Surr)	*113*		*70 - 130*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-805692/5
Matrix: Water
Analysis Batch: 805692

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	50.0	55.5		ug/L		111	70 - 130	3	30
1,1,2,2-Tetrachloroethane	50.0	46.8		ug/L		94	70 - 130	4	30
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	56.6		ug/L		113	63 - 141	1	30
1,1,2-Trichloroethane	50.0	57.8		ug/L		116	70 - 130	3	30
1,1-Dichloroethane	50.0	54.7		ug/L		109	70 - 130	8	30
1,1-Dichloroethene	50.0	48.8		ug/L		98	70 - 130	1	20
1,2,4-Trichlorobenzene	50.0	39.7		ug/L		79	70 - 130	13	30
1,2-Dibromo-3-Chloropropane	50.0	35.6		ug/L		71	70 - 130	2	30
1,2-Dibromoethane (EDB)	50.0	57.4		ug/L		115	70 - 130	2	30
1,2-Dichlorobenzene	50.0	45.2		ug/L		90	70 - 130	3	30
1,2-Dichloroethane	50.0	59.0		ug/L		118	70 - 130	2	50
1,2-Dichloropropane	50.0	56.4		ug/L		113	70 - 130	8	20
1,3-Dichlorobenzene	50.0	44.9		ug/L		90	70 - 130	1	30
1,4-Dichlorobenzene	50.0	44.9		ug/L		90	70 - 130	3	30
2-Butanone (MEK)	250	173		ug/L		69	69 - 120	1	30
2-Hexanone	250	267		ug/L		107	70 - 130	5	20
4-Methyl-2-pentanone	250	230		ug/L		92	68 - 120	5	30
Acetone	250	229		ug/L		91	67 - 120	7	30
Benzene	50.0	56.0		ug/L		112	70 - 130	0	30
Bromodichloromethane	50.0	58.0		ug/L		116	70 - 130	3	30
Bromoform	50.0	37.4		ug/L		75	69 - 129	5	30
Bromomethane	50.0	71.7		ug/L		143	28 - 192	2	30
Carbon disulfide	50.0	51.0		ug/L		102	70 - 130	1	30
Carbon tetrachloride	50.0	52.1		ug/L		104	70 - 130	1	30
Chlorobenzene	50.0	47.8		ug/L		96	70 - 130	1	30
Chloroethane	50.0	58.6		ug/L		117	31 - 213	1	30
Chloroform	50.0	55.4		ug/L		111	70 - 130	7	30
Chloromethane	50.0	38.9		ug/L		78	59 - 127	3	30
cis-1,2-Dichloroethene	50.0	55.2		ug/L		110	70 - 130	7	30
cis-1,3-Dichloropropene	50.0	57.4		ug/L		115	70 - 130	2	20
Cyclohexane	50.0	49.5		ug/L		99	23 - 175	7	30
Dibromochloromethane	50.0	50.3		ug/L		101	70 - 130	4	30
Dichlorodifluoromethane	50.0	46.3		ug/L		93	70 - 130	3	40
Ethylbenzene	50.0	47.8		ug/L		96	70 - 130	0	20
Isopropylbenzene	50.0	48.9		ug/L		98	70 - 130	0	30
m,p-Xylenes	50.0	50.0		ug/L		100	70 - 130	1	30
Methyl acetate	100	103		ug/L		103	67 - 120	6	30
Methyl tert-butyl ether	50.0	45.9		ug/L		92	70 - 130	3	30
Methylene Chloride	50.0	57.3		ug/L		115	70 - 130	0	30
o-Xylene	50.0	49.3		ug/L		99	70 - 130	1	30
Styrene	50.0	49.6		ug/L		99	70 - 130	2	30
Tetrachloroethene	50.0	52.3		ug/L		105	70 - 130	1	30
Toluene	50.0	56.1		ug/L		112	70 - 130	2	30
trans-1,2-Dichloroethene	50.0	57.6		ug/L		115	70 - 130	0	30
trans-1,3-Dichloropropene	50.0	54.4		ug/L		109	70 - 130	2	30
Trichloroethene	50.0	54.1		ug/L		108	70 - 130	8	30
Trichlorofluoromethane	50.0	87.1	J3	ug/L		174	63 - 142	0	30
Vinyl chloride	50.0	44.5		ug/L		89	66 - 129	2	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-805692/5
Matrix: Water
Analysis Batch: 805692

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Xylenes, Total			100	99.3		ug/L		99	70 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*128*	*J1*	*60 - 124*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*
Dibromofluoromethane (Surr)	*118*		*70 - 130*
Toluene-d8 (Surr)	*114*		*70 - 130*

Lab Sample ID: MB 680-805700/7
Matrix: Water
Analysis Batch: 805700

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			11/01/23 12:00	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			11/01/23 12:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			11/01/23 12:00	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			11/01/23 12:00	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			11/01/23 12:00	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			11/01/23 12:00	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			11/01/23 12:00	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			11/01/23 12:00	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			11/01/23 12:00	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/01/23 12:00	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			11/01/23 12:00	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			11/01/23 12:00	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/01/23 12:00	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/01/23 12:00	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			11/01/23 12:00	1
2-Hexanone	3.2	U	10	3.2	ug/L			11/01/23 12:00	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			11/01/23 12:00	1
Acetone	3.7	U	10	3.7	ug/L			11/01/23 12:00	1
Benzene	0.27	U	1.0	0.27	ug/L			11/01/23 12:00	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			11/01/23 12:00	1
Bromoform	0.59	U	1.0	0.59	ug/L			11/01/23 12:00	1
Bromomethane	3.7	U	5.0	3.7	ug/L			11/01/23 12:00	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			11/01/23 12:00	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			11/01/23 12:00	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			11/01/23 12:00	1
Chloroethane	4.6	U	5.0	4.6	ug/L			11/01/23 12:00	1
Chloroform	0.27	U	1.0	0.27	ug/L			11/01/23 12:00	1
Chloromethane	0.54	U	1.0	0.54	ug/L			11/01/23 12:00	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			11/01/23 12:00	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			11/01/23 12:00	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			11/01/23 12:00	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			11/01/23 12:00	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			11/01/23 12:00	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			11/01/23 12:00	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			11/01/23 12:00	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-805700/7
Matrix: Water
Analysis Batch: 805700

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			11/01/23 12:00	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			11/01/23 12:00	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			11/01/23 12:00	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			11/01/23 12:00	1
o-Xylene	0.26	U	1.0	0.26	ug/L			11/01/23 12:00	1
Styrene	0.27	U	1.0	0.27	ug/L			11/01/23 12:00	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			11/01/23 12:00	1
Toluene	0.25	U	1.0	0.25	ug/L			11/01/23 12:00	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			11/01/23 12:00	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			11/01/23 12:00	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			11/01/23 12:00	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			11/01/23 12:00	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			11/01/23 12:00	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/01/23 12:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*60 - 124*		*11/01/23 12:00*	*1*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*11/01/23 12:00*	*1*
Dibromofluoromethane (Surr)	*91*		*70 - 130*		*11/01/23 12:00*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*11/01/23 12:00*	*1*

Lab Sample ID: LCS 680-805700/3
Matrix: Water
Analysis Batch: 805700

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	54.7		ug/L		109	70 - 130
1,1,2,2-Tetrachloroethane	50.0	48.3		ug/L		97	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	53.5		ug/L		107	63 - 141
1,1,2-Trichloroethane	50.0	56.6		ug/L		113	70 - 130
1,1-Dichloroethane	50.0	54.8		ug/L		110	70 - 130
1,1-Dichloroethene	50.0	56.9		ug/L		114	70 - 130
1,2,4-Trichlorobenzene	50.0	49.4		ug/L		99	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	38.1		ug/L		76	70 - 130
1,2-Dibromoethane (EDB)	50.0	52.8		ug/L		106	70 - 130
1,2-Dichlorobenzene	50.0	48.3		ug/L		97	70 - 130
1,2-Dichloroethane	50.0	55.7		ug/L		111	70 - 130
1,2-Dichloropropane	50.0	53.6		ug/L		107	70 - 130
1,3-Dichlorobenzene	50.0	52.4		ug/L		105	70 - 130
1,4-Dichlorobenzene	50.0	50.2		ug/L		100	70 - 130
2-Butanone (MEK)	250	254		ug/L		102	69 - 120
2-Hexanone	250	279		ug/L		112	70 - 130
4-Methyl-2-pentanone	250	274		ug/L		110	68 - 120
Acetone	250	257		ug/L		103	67 - 120
Benzene	50.0	54.5		ug/L		109	70 - 130
Bromodichloromethane	50.0	55.5		ug/L		111	70 - 130
Bromoform	50.0	55.2		ug/L		110	69 - 129
Bromomethane	50.0	44.5		ug/L		89	28 - 192

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-805700/3
Matrix: Water
Analysis Batch: 805700

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Carbon disulfide	50.0	57.4		ug/L		115	70 - 130
Carbon tetrachloride	50.0	55.5		ug/L		111	70 - 130
Chlorobenzene	50.0	49.4		ug/L		99	70 - 130
Chloroethane	50.0	46.0		ug/L		92	31 - 213
Chloroform	50.0	56.7		ug/L		113	70 - 130
Chloromethane	50.0	45.4		ug/L		91	59 - 127
cis-1,2-Dichloroethene	50.0	57.6		ug/L		115	70 - 130
cis-1,3-Dichloropropene	50.0	59.4		ug/L		119	70 - 130
Cyclohexane	50.0	57.8		ug/L		116	23 - 175
Dibromochloromethane	50.0	53.7		ug/L		107	70 - 130
Dichlorodifluoromethane	50.0	44.1		ug/L		88	70 - 130
Ethylbenzene	50.0	50.0		ug/L		100	70 - 130
Isopropylbenzene	50.0	52.7		ug/L		105	70 - 130
m,p-Xylenes	50.0	50.8		ug/L		102	70 - 130
Methyl acetate	100	102		ug/L		102	67 - 120
Methyl tert-butyl ether	50.0	53.9		ug/L		108	70 - 130
Methylene Chloride	50.0	53.5		ug/L		107	70 - 130
o-Xylene	50.0	52.2		ug/L		104	70 - 130
Styrene	50.0	53.3		ug/L		107	70 - 130
Tetrachloroethene	50.0	58.6		ug/L		117	70 - 130
Toluene	50.0	59.4		ug/L		119	70 - 130
trans-1,2-Dichloroethene	50.0	57.1		ug/L		114	70 - 130
trans-1,3-Dichloropropene	50.0	55.2		ug/L		110	70 - 130
Trichloroethene	50.0	54.5		ug/L		109	70 - 130
Trichlorofluoromethane	50.0	40.6		ug/L		81	63 - 142
Vinyl chloride	50.0	43.9		ug/L		88	66 - 129
Xylenes, Total	100	103		ug/L		103	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*109*		*60 - 124*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
Dibromofluoromethane (Surr)	*111*		*70 - 130*
Toluene-d8 (Surr)	*108*		*70 - 130*

Lab Sample ID: LCSD 680-805700/4
Matrix: Water
Analysis Batch: 805700

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	50.0	55.4		ug/L		111	70 - 130	1	30
1,1,2,2-Tetrachloroethane	50.0	53.9		ug/L		108	70 - 130	11	30
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	50.2		ug/L		100	63 - 141	6	30
1,1,2-Trichloroethane	50.0	56.2		ug/L		112	70 - 130	1	30
1,1-Dichloroethane	50.0	57.5		ug/L		115	70 - 130	5	30
1,1-Dichloroethene	50.0	52.4		ug/L		105	70 - 130	8	20
1,2,4-Trichlorobenzene	50.0	44.8		ug/L		90	70 - 130	10	30
1,2-Dibromo-3-Chloropropane	50.0	42.7		ug/L		85	70 - 130	11	30
1,2-Dibromoethane (EDB)	50.0	56.9		ug/L		114	70 - 130	8	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-805700/4
Matrix: Water
Analysis Batch: 805700

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dichlorobenzene			50.0	45.9		ug/L		92	70 - 130	5	30
1,2-Dichloroethane			50.0	60.1		ug/L		120	70 - 130	8	50
1,2-Dichloropropane			50.0	53.2		ug/L		106	70 - 130	1	20
1,3-Dichlorobenzene			50.0	48.4		ug/L		97	70 - 130	8	30
1,4-Dichlorobenzene			50.0	49.3		ug/L		99	70 - 130	2	30
2-Butanone (MEK)			250	351	J3	ug/L		141	69 - 120	32	30
2-Hexanone			250	344	J3	ug/L		138	70 - 130	21	20
4-Methyl-2-pentanone			250	313	J3	ug/L		125	68 - 120	13	30
Acetone			250	326	J3	ug/L		130	67 - 120	24	30
Benzene			50.0	55.1		ug/L		110	70 - 130	1	30
Bromodichloromethane			50.0	54.0		ug/L		108	70 - 130	3	30
Bromoform			50.0	63.3		ug/L		127	69 - 129	14	30
Bromomethane			50.0	44.4		ug/L		89	28 - 192	0	30
Carbon disulfide			50.0	54.5		ug/L		109	70 - 130	5	30
Carbon tetrachloride			50.0	57.9		ug/L		116	70 - 130	4	30
Chlorobenzene			50.0	49.8		ug/L		100	70 - 130	1	30
Chloroethane			50.0	49.4		ug/L		99	31 - 213	7	30
Chloroform			50.0	61.0		ug/L		122	70 - 130	7	30
Chloromethane			50.0	45.0		ug/L		90	59 - 127	1	30
cis-1,2-Dichloroethene			50.0	61.0		ug/L		122	70 - 130	6	30
cis-1,3-Dichloropropene			50.0	52.4		ug/L		105	70 - 130	13	20
Cyclohexane			50.0	56.0		ug/L		112	23 - 175	3	30
Dibromochloromethane			50.0	54.5		ug/L		109	70 - 130	1	30
Dichlorodifluoromethane			50.0	40.1		ug/L		80	70 - 130	9	40
Ethylbenzene			50.0	49.6		ug/L		99	70 - 130	1	20
Isopropylbenzene			50.0	52.6		ug/L		105	70 - 130	0	30
m,p-Xylenes			50.0	50.9		ug/L		102	70 - 130	0	30
Methyl acetate			100	126	J3	ug/L		126	67 - 120	21	30
Methyl tert-butyl ether			50.0	58.7		ug/L		117	70 - 130	8	30
Methylene Chloride			50.0	54.3		ug/L		109	70 - 130	2	30
o-Xylene			50.0	52.1		ug/L		104	70 - 130	0	30
Styrene			50.0	53.8		ug/L		108	70 - 130	1	30
Tetrachloroethene			50.0	53.4		ug/L		107	70 - 130	9	30
Toluene			50.0	52.4		ug/L		105	70 - 130	12	30
trans-1,2-Dichloroethene			50.0	59.5		ug/L		119	70 - 130	4	30
trans-1,3-Dichloropropene			50.0	52.2		ug/L		104	70 - 130	5	30
Trichloroethene			50.0	51.7		ug/L		103	70 - 130	5	30
Trichlorofluoromethane			50.0	38.1		ug/L		76	63 - 142	6	30
Vinyl chloride			50.0	41.8		ug/L		84	66 - 129	5	30
Xylenes, Total			100	103		ug/L		103	70 - 130	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*117*		*60 - 124*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
Dibromofluoromethane (Surr)	*118*		*70 - 130*
Toluene-d8 (Surr)	*97*		*70 - 130*

GC/MS VOA

Analysis Batch: 805493

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-29324-5	LC34-DPT1011-034.0-20231024	Total/NA	Water	8260D	
MB 680-805493/9	Method Blank	Total/NA	Water	8260D	
LCS 680-805493/5	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-805493/6	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 805498

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-29324-1	LC34-DPT1011-008.0-20231024	Total/NA	Water	8260D	
670-29324-2	LC34-DPT1011-013.0-20231024	Total/NA	Water	8260D	
670-29324-3	LC34-DPT1011-018.0-20231024	Total/NA	Water	8260D	
670-29324-4	LC34-DPT1011-025.0-20231024	Total/NA	Water	8260D	
MB 680-805498/7	Method Blank	Total/NA	Water	8260D	
LCS 680-805498/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-805498/4	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 805692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-29324-8	LC34-DPT1012-013.0-20231025	Total/NA	Water	8260D	
670-29324-9	LC34-DPT1012-018.0-20231025	Total/NA	Water	8260D	
670-29324-17	LC34-DPT1013-034.0-20231025	Total/NA	Water	8260D	
670-29324-19	LC34-DPT1014-008.0-20231025	Total/NA	Water	8260D	
670-29324-20	LC34-DPT1014-013.0-20231025	Total/NA	Water	8260D	
670-29324-20 - DL	LC34-DPT1014-013.0-20231025	Total/NA	Water	8260D	
670-29324-21	LC34-DPT1014-018.0-20231025	Total/NA	Water	8260D	
670-29324-22	LC34-DPT1014-025.0-20231025	Total/NA	Water	8260D	
670-29324-23	LC34-DPT1014-034.0-20231025	Total/NA	Water	8260D	
670-29324-23 - DL	LC34-DPT1014-034.0-20231025	Total/NA	Water	8260D	
670-29324-24	LC34-DPT1014-038.0-20231025	Total/NA	Water	8260D	
MB 680-805692/8	Method Blank	Total/NA	Water	8260D	
LCS 680-805692/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-805692/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 805700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-29324-6	LC34-DPT1011-038.0-20231024	Total/NA	Water	8260D	
670-29324-7	LC34-DPT1012-008.0-20231025	Total/NA	Water	8260D	
670-29324-10	LC34-DPT1012-025.0-20231025	Total/NA	Water	8260D	
670-29324-11	LC34-DPT1012-034.0-20231025	Total/NA	Water	8260D	
670-29324-12	LC34-DPT1012-038.0-20231025	Total/NA	Water	8260D	
670-29324-13	LC34-DPT1013-008.0-20231025	Total/NA	Water	8260D	
670-29324-14	LC34-DPT1013-013.0-20231025	Total/NA	Water	8260D	
670-29324-15	LC34-DPT1013-018.0-20231025	Total/NA	Water	8260D	
670-29324-16	LC34-DPT1013-025.0-20231025	Total/NA	Water	8260D	
670-29324-18	LC34-DPT1013-038.0-20231025	Total/NA	Water	8260D	
MB 680-805700/7	Method Blank	Total/NA	Water	8260D	
LCS 680-805700/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-805700/4	Lab Control Sample Dup	Total/NA	Water	8260D	

Lab Chronicle

Client: Tetra Tech, Inc.
Job ID: 670-29324-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT1011-008.0-20231024
Lab Sample ID: 670-29324-1
Date Collected: 10/24/23 15:00
Matrix: Water
Date Received: 10/26/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	805498	MLL	EET SAV	10/31/23 12:21

Client Sample ID: LC34-DPT1011-013.0-20231024
Lab Sample ID: 670-29324-2
Date Collected: 10/24/23 15:15
Matrix: Water
Date Received: 10/26/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	805498	MLL	EET SAV	10/31/23 12:45

Client Sample ID: LC34-DPT1011-018.0-20231024
Lab Sample ID: 670-29324-3
Date Collected: 10/24/23 15:30
Matrix: Water
Date Received: 10/26/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		5	805498	MLL	EET SAV	10/31/23 13:08

Client Sample ID: LC34-DPT1011-025.0-20231024
Lab Sample ID: 670-29324-4
Date Collected: 10/24/23 15:50
Matrix: Water
Date Received: 10/26/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		5	805498	MLL	EET SAV	10/31/23 13:31

Client Sample ID: LC34-DPT1011-034.0-20231024
Lab Sample ID: 670-29324-5
Date Collected: 10/24/23 16:10
Matrix: Water
Date Received: 10/26/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	805493	MLL	EET SAV	10/31/23 17:09

Client Sample ID: LC34-DPT1011-038.0-20231024
Lab Sample ID: 670-29324-6
Date Collected: 10/25/23 16:30
Matrix: Water
Date Received: 10/26/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	805700	Y1S	EET SAV	11/01/23 12:47

Client Sample ID: LC34-DPT1012-008.0-20231025
Lab Sample ID: 670-29324-7
Date Collected: 10/25/23 08:10
Matrix: Water
Date Received: 10/26/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	805700	Y1S	EET SAV	11/01/23 13:10

Lab Chronicle

Client: Tetra Tech, Inc.
Job ID: 670-29324-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT1012-013.0-20231025
Lab Sample ID: 670-29324-8
Date Collected: 10/25/23 08:25
Matrix: Water
Date Received: 10/26/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		5	805692	P1C	EET SAV	11/01/23 13:46

Client Sample ID: LC34-DPT1012-018.0-20231025
Lab Sample ID: 670-29324-9
Date Collected: 10/25/23 08:40
Matrix: Water
Date Received: 10/26/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		5	805692	P1C	EET SAV	11/01/23 14:07

Client Sample ID: LC34-DPT1012-025.0-20231025
Lab Sample ID: 670-29324-10
Date Collected: 10/25/23 08:55
Matrix: Water
Date Received: 10/26/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	805700	Y1S	EET SAV	11/01/23 13:33

Client Sample ID: LC34-DPT1012-034.0-20231025
Lab Sample ID: 670-29324-11
Date Collected: 10/25/23 09:15
Matrix: Water
Date Received: 10/26/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	805700	Y1S	EET SAV	11/01/23 13:56

Client Sample ID: LC34-DPT1012-038.0-20231025
Lab Sample ID: 670-29324-12
Date Collected: 10/25/23 09:35
Matrix: Water
Date Received: 10/26/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	805700	Y1S	EET SAV	11/01/23 14:19

Client Sample ID: LC34-DPT1013-008.0-20231025
Lab Sample ID: 670-29324-13
Date Collected: 10/25/23 10:10
Matrix: Water
Date Received: 10/26/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	805700	Y1S	EET SAV	11/01/23 14:43

Client Sample ID: LC34-DPT1013-013.0-20231025
Lab Sample ID: 670-29324-14
Date Collected: 10/25/23 10:25
Matrix: Water
Date Received: 10/26/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	805700	Y1S	EET SAV	11/01/23 15:06

Lab Chronicle

Client: Tetra Tech, Inc.
Job ID: 670-29324-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT1013-018.0-20231025
Lab Sample ID: 670-29324-15
Date Collected: 10/25/23 10:40
Matrix: Water
Date Received: 10/26/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	805700	Y1S	EET SAV	11/01/23 15:29

Client Sample ID: LC34-DPT1013-025.0-20231025
Lab Sample ID: 670-29324-16
Date Collected: 10/25/23 10:55
Matrix: Water
Date Received: 10/26/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	805700	Y1S	EET SAV	11/01/23 15:52

Client Sample ID: LC34-DPT1013-034.0-20231025
Lab Sample ID: 670-29324-17
Date Collected: 10/25/23 11:10
Matrix: Water
Date Received: 10/26/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	805692	P1C	EET SAV	11/01/23 11:48

Client Sample ID: LC34-DPT1013-038.0-20231025
Lab Sample ID: 670-29324-18
Date Collected: 10/25/23 11:30
Matrix: Water
Date Received: 10/26/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	805700	Y1S	EET SAV	11/01/23 16:15

Client Sample ID: LC34-DPT1014-008.0-20231025
Lab Sample ID: 670-29324-19
Date Collected: 10/25/23 12:10
Matrix: Water
Date Received: 10/26/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	805692	P1C	EET SAV	11/01/23 15:52

Client Sample ID: LC34-DPT1014-013.0-20231025
Lab Sample ID: 670-29324-20
Date Collected: 10/25/23 12:20
Matrix: Water
Date Received: 10/26/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	805692	P1C	EET SAV	11/01/23 12:07
Total/NA	Analysis	8260D	DL	2	805692	P1C	EET SAV	11/01/23 15:12

Client Sample ID: LC34-DPT1014-018.0-20231025
Lab Sample ID: 670-29324-21
Date Collected: 10/25/23 12:35
Matrix: Water
Date Received: 10/26/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		2	805692	P1C	EET SAV	11/01/23 14:50

Lab Chronicle

Client: Tetra Tech, Inc.
Job ID: 670-29324-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT1014-025.0-20231025
Lab Sample ID: 670-29324-22
Date Collected: 10/25/23 12:50
Matrix: Water
Date Received: 10/26/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	805692	P1C	EET SAV	11/01/23 12:26

Client Sample ID: LC34-DPT1014-034.0-20231025
Lab Sample ID: 670-29324-23
Date Collected: 10/25/23 13:05
Matrix: Water
Date Received: 10/26/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	805692	P1C	EET SAV	11/01/23 12:45
Total/NA	Analysis	8260D	DL	2	805692	P1C	EET SAV	11/01/23 15:33

Client Sample ID: LC34-DPT1014-038.0-20231025
Lab Sample ID: 670-29324-24
Date Collected: 10/25/23 13:25
Matrix: Water
Date Received: 10/26/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	805692	P1C	EET SAV	11/01/23 13:03

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: Tetra Tech, Inc.
Job ID: 670-29324-1
Project/Site: NASA KSC LC34 DPT

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87052	06-30-24

Method Summary

Client: Tetra Tech, Inc.
Job ID: 670-29324-1
Project/Site: NASA KSC LC34 DPT

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET SAV
5030B	Purge and Trap	SW846	EET SAV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Sample Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-29324-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
670-29324-1	LC34-DPT1011-008.0-20231024	Water	10/24/23 15:00	10/26/23 08:00
670-29324-2	LC34-DPT1011-013.0-20231024	Water	10/24/23 15:15	10/26/23 08:00
670-29324-3	LC34-DPT1011-018.0-20231024	Water	10/24/23 15:30	10/26/23 08:00
670-29324-4	LC34-DPT1011-025.0-20231024	Water	10/24/23 15:50	10/26/23 08:00
670-29324-5	LC34-DPT1011-034.0-20231024	Water	10/24/23 16:10	10/26/23 08:00
670-29324-6	LC34-DPT1011-038.0-20231024	Water	10/25/23 16:30	10/26/23 08:00
670-29324-7	LC34-DPT1012-008.0-20231025	Water	10/25/23 08:10	10/26/23 08:00
670-29324-8	LC34-DPT1012-013.0-20231025	Water	10/25/23 08:25	10/26/23 08:00
670-29324-9	LC34-DPT1012-018.0-20231025	Water	10/25/23 08:40	10/26/23 08:00
670-29324-10	LC34-DPT1012-025.0-20231025	Water	10/25/23 08:55	10/26/23 08:00
670-29324-11	LC34-DPT1012-034.0-20231025	Water	10/25/23 09:15	10/26/23 08:00
670-29324-12	LC34-DPT1012-038.0-20231025	Water	10/25/23 09:35	10/26/23 08:00
670-29324-13	LC34-DPT1013-008.0-20231025	Water	10/25/23 10:10	10/26/23 08:00
670-29324-14	LC34-DPT1013-013.0-20231025	Water	10/25/23 10:25	10/26/23 08:00
670-29324-15	LC34-DPT1013-018.0-20231025	Water	10/25/23 10:40	10/26/23 08:00
670-29324-16	LC34-DPT1013-025.0-20231025	Water	10/25/23 10:55	10/26/23 08:00
670-29324-17	LC34-DPT1013-034.0-20231025	Water	10/25/23 11:10	10/26/23 08:00
670-29324-18	LC34-DPT1013-038.0-20231025	Water	10/25/23 11:30	10/26/23 08:00
670-29324-19	LC34-DPT1014-008.0-20231025	Water	10/25/23 12:10	10/26/23 08:00
670-29324-20	LC34-DPT1014-013.0-20231025	Water	10/25/23 12:20	10/26/23 08:00
670-29324-21	LC34-DPT1014-018.0-20231025	Water	10/25/23 12:35	10/26/23 08:00
670-29324-22	LC34-DPT1014-025.0-20231025	Water	10/25/23 12:50	10/26/23 08:00
670-29324-23	LC34-DPT1014-034.0-20231025	Water	10/25/23 13:05	10/26/23 08:00
670-29324-24	LC34-DPT1014-038.0-20231025	Water	10/25/23 13:25	10/26/23 08:00

Tetra Tech, Inc. CHAIN OF CUSTODY | NUMBER No. 3795 | PAGE 1 OF 2

PROJECT NO: 112G08985	FACILITY: KSC-LC34	PROJECT MANAGER Mark Jonnet	PHONE NUMBER (412) 921-8622	LABORATORY NAME AND CONTACT: Eurofins – Kaitlin Dylnicki
SAMPLERS (SIGNATURE) - Chuck Sorden		FIELD OPERATIONS LEADER Chuck Sorden	PHONE NUMBER (321) 591-7580	ADDRESS 481 Newburyport Ave.
		CARRIER/WAYBILL NUMBER		CITY, STATE Altamonte Springs, FL

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE (YEAR 2023)	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)		PRESERVATIVE USED		TYPE OF ANALYSIS: 8260D (MOD) NASA LC34 Custom List	TYPE OF ANALYSIS: 8260D (MOD) NASA LC34 Custom List	COMMENTS
									G	G	HCl/4°C	4°C			
10/24	1500	LC34-DPT1011-008.0-20231024	131+	6	10	GW	G	4	X	X					
〃	1515	LC34-DPT1011-013.0-20231024	〃	11	15	〃	〃	〃	〃	〃					
	1530	LC34-DPT1011-018.0-20231024		16	20										
	1550	LC34-DPT1011-025.0-20231024		23	27										
	1610	LC34-DPT1011-034.0-20231024	↓	32	36										
10/24	1630	LC34-DPT1011-038.0-20231024	131+	36	40										
10/25	0810	LC34-DPT1012-008.0-20231025	131	6	10										
〃	0825	LC34-DPT1012-013.0-20231025	〃	11	15										
	0840	LC34-DPT1012-018.0-20231025		16	20										
	0855	LC34-DPT1012-025.0-20231025		23	27										
	0915	LC34-DPT1012-034.0-20231025	↓	32	36										
↓	0935	LC34-DPT1012-038.0-20231025	131	36	40	↓	↓	↓	↓	↓					
10/25	1010	LC34-DPT1013-008.0-20231025	130	6	10	GW	G	4	X	X					

670-29324 Chain of Custody

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	10/25/23	1415	1. RECEIVED BY ML	10/26/23	8:00
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS 0.7 / 0.5

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY) 4/02R

Tetra Tech, Inc.

CHAIN OF CUSTODY | NUMBER No. 3798 | PAGE 2 OF 2

PROJECT NO: 112G08985	FACILITY: KSC-LC34	PROJECT MANAGER Mark Jonnet	PHONE NUMBER (412) 921-8622	LABORATORY NAME AND CONTACT: Eurofins — Kaitlin Dylnicki
SAMPLERS (SIGNATURE) -Chuck Sorden		FIELD OPERATIONS LEADER Chuck Sorden	PHONE NUMBER (321) 591-7580	ADDRESS 481 Newburyport Ave.
		CARRIER/WAYBILL NUMBER		CITY, STATE ~~Ortes~~ Altamonte Springs, FL

STANDARD TAT ☐
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): G G
PRESERVATIVE USED: HCl/4°C 4°C

DATE YEAR 2023	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS: 8260D-(MOD) NASA LC34 Custom List	TYPE OF ANALYSIS: 8260D-(MOD) NASA LC34 Custom List	COMMENTS
10/25	1025	LC34-DPT1013-013.0-20231025	130	11	15	GW	G	4	X	X	
	1040	LC34-DPT1013-018.0-20231025		16	20						
	1055	LC34-DPT1013-025.0-20231025		23	27						
	1110	LC34-DPT1013-034.0-20231025		32	36						
	1130	LC34-DPT1013-038.0-20231025	130	36	40						
	1210	LC34-DPT1014-008.0-20231025	129	6	10						
	1220	LC34-DPT1014-013.0-20231025		11	15						
	1235	LC34-DPT1014-018.0-20231025		16	20						
	1250	LC34-DPT1014-025.0-20231025		23	27						
	1305	LC34-DPT1014-034.0-20231025		32	36						
10/25	1325	LC34-DPT1014-038.0-20231025	129	36	40	GW	G	4	X	X	

1. RELINQUISHED BY		DATE 10/25/23	TIME 1415	1. RECEIVED BY MC		DATE 10/26/23	TIME 8:00
2. RELINQUISHED BY		DATE	TIME	2. RECEIVED BY		DATE	TIME
3. RELINQUISHED BY		DATE	TIME	3. RECEIVED BY		DATE	TIME

COMMENTS 0.7 / 0.5

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY) 4/02R

Eurofins Orlando
481 Newburyport Avenue
Altamonte Springs, FL 32701
Phone: 407-339-5984 Fax: 407-260-6110

Chain of Custody Record

eurofins
Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Dylnicki, Kaitlin	Carrier Tracking No(s):	COC No: 670-17727.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: kaitlin.dylnicki@et.eurofinsus.com	State of Origin: Florida	Page: Page 1 of 3
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP - Florida		Job #: 670-29324-1
Address: 5102 LaRoche Avenue, .	Due Date Requested: 11/7/2023			
City: Savannah	TAT Requested (days):			
State, Zip: GA, 31404				
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	PO #:			
Email:	WO #:			
Project Name: NASA KSC LC34 DPT	Project #: 67001156			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D/5030B (MOD) NASA LC34 Custom	8260D/5030B_UP (MOD) NASA LC34 Custom	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
LC34-DPT1011-008.0-20231024 (670-29324-1)	10/24/23	15:00 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT1011-013.0-20231024 (670-29324-2)	10/24/23	15:15 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT1011-018.0-20231024 (670-29324-3)	10/24/23	15:30 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT1011-025.0-20231024 (670-29324-4)	10/24/23	15:50 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT1011-034.0-20231024 (670-29324-5)	10/24/23	16:10 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT1011-038.0-20231024 (670-29324-6)	10/25/23	16:30 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT1012-008.0-20231025 (670-29324-7)	10/25/23	08:10 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT1012-013.0-20231025 (670-29324-8)	10/25/23	08:25 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT1012-018.0-20231025 (670-29324-9)	10/25/23	08:40 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* ____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	10/26 1600		TH	10-27-23	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				10:02	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 670-29324-1

Login Number: 29324

List Number: 1

Creator: Clerisier, Meline

List Source: Eurofins Orlando

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 670-29324-1

Login Number: 29324
List Number: 2
Creator: Harley, Tynisha

List Source: Eurofins Savannah
List Creation: 10/27/23 12:51 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Mark Jonnet
Tetra Tech, Inc.
Foster Plaza 7
661 Anderson Drive
Suite 200
Pittsburgh, Pennsylvania 15220-2745

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JOB DESCRIPTION

NASA KSC LC34 DPT

JOB NUMBER

670-29412-1

Eurofins Orlando
481 Newburyport Avenue
Altamonte Springs FL 32701

See page two for job notes and contact information.

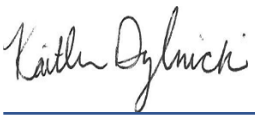
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Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization



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Authorized for release by
Kaitlin Dylnicki, Project Manager
kaitlin.dylnicki@et.eurofinsus.com
(407)339-5984

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Definitions/Glossary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-29412-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
Q	Sample held beyond the accepted holding time.
U	Indicates that the compound was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 670-29412-1

Laboratory: Eurofins Orlando

Narrative

Job Narrative
Client: Tetra Tech
Client PM: Mark Jonnet
Project: NASA KSC LC34
Project Number: 112G08985
670-29412-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 10/27/2023 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.5°C

GC/MS VOA
Method 8260D: The continuing calibration verification (CCV) associated with batch 680-806030 recovered outside acceptance criteria, low biased, for Bromomethane and Trichlorofluoromethane. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

Method 8260D: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 680-806030 recovered outside control limits for the following analytes: 1,1,2,2-Tetrachloroethane, 2-Butanone (MEK), 2-Hexanone, 4-Methyl-2-pentanone and Methyl acetate. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for analytical batch 680-806030 recovered outside control limits for the following analyte(s): 2-Butanone (MEK) and Acetone. These analytes have been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260D: The laboratory control sample duplicate (LCSD) for analytical batch 680-806030 recovered outside control limits for the following analytes: Bromoform. This analyte was biased high in the LCSD and was not detected in the associated samples; therefore, the data have been reported.

Method 8260D: The following samples were diluted to bring the concentration of target analytes within the calibration range: LC34-DPT1015-025.0-20231025 (670-29412-4), LC34-DPT1017-013.0-20231026 (670-29412-14) and LC34-DPT1017-034.0-20231026 (670-29412-17). Elevated reporting limits (RLs) are provided.

Method 8260D: Preserved vials were received with headspace. Unpreserved vial was not analyzed with in 7 days. Out of hold, headspace free vial was analyzed. LC34-DPT1015-025.0-20231025 (670-29412-4)

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-806030.

Method 8260D: The continuing calibration verification (CCV) associated with batch 680-806240 recovered outside acceptance criteria, low biased, for 1,2-Dibromo-3-Chloropropane, Bromomethane and Trichlorofluoromethane. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

Job ID: 670-29412-1 (Continued)

Laboratory: Eurofins Orlando (Continued)

Method 8260D: The laboratory control sample duplicate (LCSD) for analytical batch 680-806240 recovered outside control limits for the following analytes: 2-Hexanone and Bromoform. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 680-806240 recovered outside control limits for the following analytes: 2-Hexanone.

Method 8260D: Elevated reporting limits are provided for the following sample: LC34-DPT1018- 018.0-20231026 (670-29412-21). Sample was reanalyzed out of hold at lower dilution. Sample is reported as over dilute per client request.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-29412-1

Client Sample ID: LC34-DPT1015-008.0-20231025 — Lab Sample ID: 670-29412-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	180		2.0	0.50	ug/L	2		8260D	Total/NA
Ethylbenzene	0.41	I	2.0	0.40	ug/L	2		8260D	Total/NA
m,p-Xylenes	1.0	I	2.0	0.98	ug/L	2		8260D	Total/NA
Toluene	0.78	I	2.0	0.50	ug/L	2		8260D	Total/NA
trans-1,2-Dichloroethene	0.77	I	2.0	0.68	ug/L	2		8260D	Total/NA
Vinyl chloride	25		2.0	0.80	ug/L	2		8260D	Total/NA
Xylenes, Total	1.0	I	2.0	0.46	ug/L	2		8260D	Total/NA

Client Sample ID: LC34-DPT1015-013.0-20231025 — Lab Sample ID: 670-29412-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	81		1.0	0.25	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	1.1		1.0	0.34	ug/L	1		8260D	Total/NA
Vinyl chloride	74		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT1015-018.0-20231025 — Lab Sample ID: 670-29412-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	170		5.0	1.7	ug/L	5		8260D	Total/NA
1,2-Dichloroethane	1.6	I	5.0	1.3	ug/L	5		8260D	Total/NA
Benzene	250		5.0	1.4	ug/L	5		8260D	Total/NA
Chloroethane	54		25	23	ug/L	5		8260D	Total/NA
cis-1,2-Dichloroethene	18		5.0	1.3	ug/L	5		8260D	Total/NA
Dibromochloromethane	2.9	I	5.0	2.0	ug/L	5		8260D	Total/NA
Ethylbenzene	10		5.0	1.0	ug/L	5		8260D	Total/NA
Toluene	1.4	I	5.0	1.3	ug/L	5		8260D	Total/NA
trans-1,2-Dichloroethene	9.0		5.0	1.7	ug/L	5		8260D	Total/NA
Trichloroethene	1.2	I	5.0	1.0	ug/L	5		8260D	Total/NA
Vinyl chloride	28		5.0	2.0	ug/L	5		8260D	Total/NA

Client Sample ID: LC34-DPT1015-025.0-20231025 — Lab Sample ID: 670-29412-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	610	Q	5.0	1.3	ug/L	5		8260D	Total/NA
trans-1,2-Dichloroethene	13	Q	5.0	1.7	ug/L	5		8260D	Total/NA
Vinyl chloride	280	Q	5.0	2.0	ug/L	5		8260D	Total/NA

Client Sample ID: LC34-DPT1015-034.0-20231025 — Lab Sample ID: 670-29412-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	28		2.0	0.50	ug/L	2		8260D	Total/NA
Dibromochloromethane	1.1	I	2.0	0.78	ug/L	2		8260D	Total/NA
Vinyl chloride	24		2.0	0.80	ug/L	2		8260D	Total/NA

Client Sample ID: LC34-DPT1015-038.0 -20231025 — Lab Sample ID: 670-29412-6

No Detections.

Client Sample ID: LC34-DPT1016-008.0-20231025 — Lab Sample ID: 670-29412-7

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	25		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	35		1.0	0.40	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Orlando

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-29412-1

Client Sample ID: LC34-DPT1016- 013.0-20231025 — Lab Sample ID: 670-29412-8

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	5.1	I	10	3.7	ug/L	1		8260D	Total/NA
Carbon disulfide	0.61	I	2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	190		1.0	0.25	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	2.7		1.0	0.34	ug/L	1		8260D	Total/NA
Trichloroethene	0.31	I	1.0	0.20	ug/L	1		8260D	Total/NA
Vinyl chloride	56		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT1016-018.0-20231025 — Lab Sample ID: 670-29412-9

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	380		5.0	1.3	ug/L	5		8260D	Total/NA
trans-1,2-Dichloroethene	7.6		5.0	1.7	ug/L	5		8260D	Total/NA
Vinyl chloride	150		5.0	2.0	ug/L	5		8260D	Total/NA

Client Sample ID: LC34-DPT1016-025.0-20231025 — Lab Sample ID: 670-29412-10

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	980		10	2.5	ug/L	10		8260D	Total/NA
trans-1,2-Dichloroethene	4.9	I	10	3.4	ug/L	10		8260D	Total/NA
Vinyl chloride	68		10	4.0	ug/L	10		8260D	Total/NA

Client Sample ID: LC34-DPT1016-034.0-20231026 — Lab Sample ID: 670-29412-11

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	1.8	I	2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	90		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	73		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT1016-038.0-20231026 — Lab Sample ID: 670-29412-12

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.60	I	2.0	0.43	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT1017-008.0-20231026 — Lab Sample ID: 670-29412-13

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	3.6		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	17		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT1017-013.0-20231026 — Lab Sample ID: 670-29412-14

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	160		2.0	0.50	ug/L	2		8260D	Total/NA
Tetrachloroethene	3.3		2.0	0.70	ug/L	2		8260D	Total/NA
Trichloroethene	2.1		2.0	0.40	ug/L	2		8260D	Total/NA
Vinyl chloride	79		2.0	0.80	ug/L	2		8260D	Total/NA

Client Sample ID: LC34-DPT1017-018.0-20231026 — Lab Sample ID: 670-29412-15

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	6.9	I J3	10	3.7	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	160		1.0	0.25	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	1.1		1.0	0.34	ug/L	1		8260D	Total/NA
Vinyl chloride	7.2		1.0	0.40	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Orlando

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-29412-1

Client Sample ID: LC34-DPT1017-025.0-20231026 — Lab Sample ID: 670-29412-16

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	6.5	I J3	10	6.4	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	30		1.0	0.25	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	0.55	I	1.0	0.34	ug/L	1		8260D	Total/NA
Vinyl chloride	38		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT1017-034.0-20231026 — Lab Sample ID: 670-29412-17

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	220		2.0	0.50	ug/L	2		8260D	Total/NA
Tetrachloroethene	2.7		2.0	0.70	ug/L	2		8260D	Total/NA
Trichloroethene	0.65	I	2.0	0.40	ug/L	2		8260D	Total/NA
Vinyl chloride	19		2.0	0.80	ug/L	2		8260D	Total/NA

Client Sample ID: LC34-DPT1017-038.0-20231026 — Lab Sample ID: 670-29412-18

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.50	I	2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	1.6		1.0	0.25	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT1018-008.0-20231026 — Lab Sample ID: 670-29412-19

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	4.9		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	22		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT1018-013.0-20231026 — Lab Sample ID: 670-29412-20

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	5.1	I J3	10	3.7	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	25		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	60		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT1018- 018.0-20231026 — Lab Sample ID: 670-29412-21

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.7	I	2.0	0.50	ug/L	2		8260D	Total/NA
Vinyl chloride	1.2	I	2.0	0.80	ug/L	2		8260D	Total/NA

Client Sample ID: LC34-DPT1018-025.0-20231026 — Lab Sample ID: 670-29412-22

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	7.4	I J3	10	3.7	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	4.6		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	61		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT1018-034.0-20231026 — Lab Sample ID: 670-29412-23

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.82	I	2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	3.1		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	11		1.0	0.40	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-29412-1

Client Sample ID: LC34-DPT1018-038.0-20231026 — Lab Sample ID: 670-29412-24

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	6.5	I J3	10	3.7	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0984-043.0-20231026 — Lab Sample ID: 670-29412-25

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.49	I	2.0	0.43	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0984-038.0-20231026 — Lab Sample ID: 670-29412-26

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.59	I	2.0	0.43	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-29412-1

Client Sample ID: LC34-DPT1015-008.0-20231025
Date Collected: 10/25/23 14:05
Date Received: 10/27/23 08:00

Lab Sample ID: 670-29412-1
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.42	U	2.0	0.42	ug/L			11/03/23 20:14	2
1,1,2,2-Tetrachloroethane	0.80	U	2.0	0.80	ug/L			11/03/23 20:14	2
1,1,2-Trichloro-1,2,2-trifluoroethane	0.46	U	2.0	0.46	ug/L			11/03/23 20:14	2
1,1,2-Trichloroethane	0.64	U	2.0	0.64	ug/L			11/03/23 20:14	2
1,1-Dichloroethane	0.66	U	2.0	0.66	ug/L			11/03/23 20:14	2
1,1-Dichloroethene	0.66	U	2.0	0.66	ug/L			11/03/23 20:14	2
1,2,4-Trichlorobenzene	1.1	U	10	1.1	ug/L			11/03/23 20:14	2
1,2-Dibromo-3-Chloropropane	3.6	U	10	3.6	ug/L			11/03/23 20:14	2
1,2-Dibromoethane (EDB)	0.66	U	2.0	0.66	ug/L			11/03/23 20:14	2
1,2-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			11/03/23 20:14	2
1,2-Dichloroethane	0.50	U	2.0	0.50	ug/L			11/03/23 20:14	2
1,2-Dichloropropane	0.44	U	2.0	0.44	ug/L			11/03/23 20:14	2
1,3-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			11/03/23 20:14	2
1,4-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			11/03/23 20:14	2
2-Butanone (MEK)	13	U	20	13	ug/L			11/03/23 20:14	2
2-Hexanone	6.4	U J3	20	6.4	ug/L			11/03/23 20:14	2
4-Methyl-2-pentanone	5.4	U	20	5.4	ug/L			11/03/23 20:14	2
Acetone	7.4	U	20	7.4	ug/L			11/03/23 20:14	2
Benzene	0.54	U	2.0	0.54	ug/L			11/03/23 20:14	2
Bromodichloromethane	0.50	U	2.0	0.50	ug/L			11/03/23 20:14	2
Bromoform	1.2	U J3	2.0	1.2	ug/L			11/03/23 20:14	2
Bromomethane	7.4	U	10	7.4	ug/L			11/03/23 20:14	2
Carbon disulfide	0.86	U	4.0	0.86	ug/L			11/03/23 20:14	2
Carbon tetrachloride	0.60	U	2.0	0.60	ug/L			11/03/23 20:14	2
Chlorobenzene	0.30	U	2.0	0.30	ug/L			11/03/23 20:14	2
Chloroethane	9.2	U	10	9.2	ug/L			11/03/23 20:14	2
Chloroform	0.54	U	2.0	0.54	ug/L			11/03/23 20:14	2
Chloromethane	1.1	U	2.0	1.1	ug/L			11/03/23 20:14	2
cis-1,2-Dichloroethene	**180**		2.0	0.50	ug/L			11/03/23 20:14	2
cis-1,3-Dichloropropene	0.52	U	2.0	0.52	ug/L			11/03/23 20:14	2
Cyclohexane	0.56	U	2.0	0.56	ug/L			11/03/23 20:14	2
Dibromochloromethane	0.78	U	2.0	0.78	ug/L			11/03/23 20:14	2
Dichlorodifluoromethane	0.72	U	2.0	0.72	ug/L			11/03/23 20:14	2
Ethylbenzene	**0.41**	**I**	2.0	0.40	ug/L			11/03/23 20:14	2
Isopropylbenzene	0.52	U	2.0	0.52	ug/L			11/03/23 20:14	2
m,p-Xylenes	**1.0**	**I**	2.0	0.98	ug/L			11/03/23 20:14	2
Methyl acetate	6.4	U	10	6.4	ug/L			11/03/23 20:14	2
Methyl tert-butyl ether	1.6	U	10	1.6	ug/L			11/03/23 20:14	2
Methylene Chloride	6.4	U	10	6.4	ug/L			11/03/23 20:14	2
o-Xylene	0.52	U	2.0	0.52	ug/L			11/03/23 20:14	2
Styrene	0.54	U	2.0	0.54	ug/L			11/03/23 20:14	2
Tetrachloroethene	0.70	U	2.0	0.70	ug/L			11/03/23 20:14	2
Toluene	**0.78**	**I**	2.0	0.50	ug/L			11/03/23 20:14	2
trans-1,2-Dichloroethene	**0.77**	**I**	2.0	0.68	ug/L			11/03/23 20:14	2
trans-1,3-Dichloropropene	0.46	U	2.0	0.46	ug/L			11/03/23 20:14	2
Trichloroethene	0.40	U	2.0	0.40	ug/L			11/03/23 20:14	2
Trichlorofluoromethane	0.66	U	2.0	0.66	ug/L			11/03/23 20:14	2
Vinyl chloride	**25**		2.0	0.80	ug/L			11/03/23 20:14	2
Xylenes, Total	**1.0**	**I**	2.0	0.46	ug/L			11/03/23 20:14	2

Client Sample ID: LC34-DPT1015-008.0-20231025

Lab Sample ID: 670-29412-1

Date Collected: 10/25/23 14:05

Matrix: Water

Date Received: 10/27/23 08:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*60 - 124*		*11/03/23 20:14*	*2*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*11/03/23 20:14*	*2*
Dibromofluoromethane (Surr)	*91*		*70 - 130*		*11/03/23 20:14*	*2*
Toluene-d8 (Surr)	*101*		*70 - 130*		*11/03/23 20:14*	*2*

Client Sample ID: LC34-DPT1015-013.0-20231025

Lab Sample ID: 670-29412-2

Date Collected: 10/25/23 14:15

Matrix: Water

Date Received: 10/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			11/03/23 14:02	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			11/03/23 14:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			11/03/23 14:02	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			11/03/23 14:02	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			11/03/23 14:02	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			11/03/23 14:02	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			11/03/23 14:02	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			11/03/23 14:02	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			11/03/23 14:02	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/03/23 14:02	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			11/03/23 14:02	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			11/03/23 14:02	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/03/23 14:02	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/03/23 14:02	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			11/03/23 14:02	1
2-Hexanone	3.2	U J3	10	3.2	ug/L			11/03/23 14:02	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			11/03/23 14:02	1
Acetone	3.7	U	10	3.7	ug/L			11/03/23 14:02	1
Benzene	0.27	U	1.0	0.27	ug/L			11/03/23 14:02	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			11/03/23 14:02	1
Bromoform	0.59	U J3	1.0	0.59	ug/L			11/03/23 14:02	1
Bromomethane	3.7	U	5.0	3.7	ug/L			11/03/23 14:02	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			11/03/23 14:02	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			11/03/23 14:02	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			11/03/23 14:02	1
Chloroethane	4.6	U	5.0	4.6	ug/L			11/03/23 14:02	1
Chloroform	0.27	U	1.0	0.27	ug/L			11/03/23 14:02	1
Chloromethane	0.54	U	1.0	0.54	ug/L			11/03/23 14:02	1
cis-1,2-Dichloroethene	**81**		1.0	0.25	ug/L			11/03/23 14:02	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			11/03/23 14:02	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			11/03/23 14:02	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			11/03/23 14:02	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			11/03/23 14:02	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			11/03/23 14:02	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			11/03/23 14:02	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			11/03/23 14:02	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			11/03/23 14:02	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			11/03/23 14:02	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			11/03/23 14:02	1

Client Sample ID: LC34-DPT1015-013.0-20231025

Lab Sample ID: 670-29412-2

Date Collected: 10/25/23 14:15

Matrix: Water

Date Received: 10/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	0.26	U	1.0	0.26	ug/L			11/03/23 14:02	1
Styrene	0.27	U	1.0	0.27	ug/L			11/03/23 14:02	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			11/03/23 14:02	1
Toluene	0.25	U	1.0	0.25	ug/L			11/03/23 14:02	1
trans-1,2-Dichloroethene	**1.1**		1.0	0.34	ug/L			11/03/23 14:02	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			11/03/23 14:02	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			11/03/23 14:02	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			11/03/23 14:02	1
Vinyl chloride	**74**		1.0	0.40	ug/L			11/03/23 14:02	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/03/23 14:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*		*11/03/23 14:02*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*11/03/23 14:02*	*1*
Dibromofluoromethane (Surr)	*94*		*70 - 130*		*11/03/23 14:02*	*1*
Toluene-d8 (Surr)	*109*		*70 - 130*		*11/03/23 14:02*	*1*

Client Sample ID: LC34-DPT1015-018.0-20231025

Lab Sample ID: 670-29412-3

Date Collected: 10/25/23 14:30

Matrix: Water

Date Received: 10/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	5.0	1.1	ug/L			11/03/23 19:28	5
1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	ug/L			11/03/23 19:28	5
1,1,2-Trichloro-1,2,2-trifluoroethane	1.2	U	5.0	1.2	ug/L			11/03/23 19:28	5
1,1,2-Trichloroethane	1.6	U	5.0	1.6	ug/L			11/03/23 19:28	5
1,1-Dichloroethane	**170**		5.0	1.7	ug/L			11/03/23 19:28	5
1,1-Dichloroethene	1.7	U	5.0	1.7	ug/L			11/03/23 19:28	5
1,2,4-Trichlorobenzene	2.7	U	25	2.7	ug/L			11/03/23 19:28	5
1,2-Dibromo-3-Chloropropane	9.0	U	25	9.0	ug/L			11/03/23 19:28	5
1,2-Dibromoethane (EDB)	1.7	U	5.0	1.7	ug/L			11/03/23 19:28	5
1,2-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			11/03/23 19:28	5
1,2-Dichloroethane	**1.6**	**I**	5.0	1.3	ug/L			11/03/23 19:28	5
1,2-Dichloropropane	1.1	U	5.0	1.1	ug/L			11/03/23 19:28	5
1,3-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			11/03/23 19:28	5
1,4-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			11/03/23 19:28	5
2-Butanone (MEK)	32	U	50	32	ug/L			11/03/23 19:28	5
2-Hexanone	16	U J3	50	16	ug/L			11/03/23 19:28	5
4-Methyl-2-pentanone	14	U	50	14	ug/L			11/03/23 19:28	5
Acetone	19	U	50	19	ug/L			11/03/23 19:28	5
Benzene	**250**		5.0	1.4	ug/L			11/03/23 19:28	5
Bromodichloromethane	1.3	U	5.0	1.3	ug/L			11/03/23 19:28	5
Bromoform	3.0	U J3	5.0	3.0	ug/L			11/03/23 19:28	5
Bromomethane	19	U	25	19	ug/L			11/03/23 19:28	5
Carbon disulfide	2.2	U	10	2.2	ug/L			11/03/23 19:28	5
Carbon tetrachloride	1.5	U	5.0	1.5	ug/L			11/03/23 19:28	5
Chlorobenzene	0.75	U	5.0	0.75	ug/L			11/03/23 19:28	5
Chloroethane	**54**		25	23	ug/L			11/03/23 19:28	5
Chloroform	1.4	U	5.0	1.4	ug/L			11/03/23 19:28	5

Client Sample ID: LC34-DPT1015-018.0-20231025

Lab Sample ID: 670-29412-3

Date Collected: 10/25/23 14:30

Matrix: Water

Date Received: 10/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	2.7	U	5.0	2.7	ug/L			11/03/23 19:28	5
cis-1,2-Dichloroethene	**18**		5.0	1.3	ug/L			11/03/23 19:28	5
cis-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			11/03/23 19:28	5
Cyclohexane	1.4	U	5.0	1.4	ug/L			11/03/23 19:28	5
Dibromochloromethane	**2.9**	**I**	5.0	2.0	ug/L			11/03/23 19:28	5
Dichlorodifluoromethane	1.8	U	5.0	1.8	ug/L			11/03/23 19:28	5
Ethylbenzene	**10**		5.0	1.0	ug/L			11/03/23 19:28	5
Isopropylbenzene	1.3	U	5.0	1.3	ug/L			11/03/23 19:28	5
m,p-Xylenes	2.5	U	5.0	2.5	ug/L			11/03/23 19:28	5
Methyl acetate	16	U	25	16	ug/L			11/03/23 19:28	5
Methyl tert-butyl ether	4.1	U	25	4.1	ug/L			11/03/23 19:28	5
Methylene Chloride	16	U	25	16	ug/L			11/03/23 19:28	5
o-Xylene	1.3	U	5.0	1.3	ug/L			11/03/23 19:28	5
Styrene	1.4	U	5.0	1.4	ug/L			11/03/23 19:28	5
Tetrachloroethene	1.8	U	5.0	1.8	ug/L			11/03/23 19:28	5
Toluene	**1.4**	**I**	5.0	1.3	ug/L			11/03/23 19:28	5
trans-1,2-Dichloroethene	**9.0**		5.0	1.7	ug/L			11/03/23 19:28	5
trans-1,3-Dichloropropene	1.2	U	5.0	1.2	ug/L			11/03/23 19:28	5
Trichloroethene	**1.2**	**I**	5.0	1.0	ug/L			11/03/23 19:28	5
Trichlorofluoromethane	1.7	U	5.0	1.7	ug/L			11/03/23 19:28	5
Vinyl chloride	**28**		5.0	2.0	ug/L			11/03/23 19:28	5
Xylenes, Total	1.2	U	5.0	1.2	ug/L			11/03/23 19:28	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*		*11/03/23 19:28*	*5*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*11/03/23 19:28*	*5*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*11/03/23 19:28*	*5*
Toluene-d8 (Surr)	*108*		*70 - 130*		*11/03/23 19:28*	*5*

Client Sample ID: LC34-DPT1015-025.0-20231025

Lab Sample ID: 670-29412-4

Date Collected: 10/25/23 14:50

Matrix: Water

Date Received: 10/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U Q	5.0	1.1	ug/L			11/02/23 19:33	5
1,1,2,2-Tetrachloroethane	2.0	U Q J3	5.0	2.0	ug/L			11/02/23 19:33	5
1,1,2-Trichloro-1,2,2-trifluoroethane	1.2	U Q	5.0	1.2	ug/L			11/02/23 19:33	5
1,1,2-Trichloroethane	1.6	U Q	5.0	1.6	ug/L			11/02/23 19:33	5
1,1-Dichloroethane	1.7	U Q	5.0	1.7	ug/L			11/02/23 19:33	5
1,1-Dichloroethene	1.7	U Q	5.0	1.7	ug/L			11/02/23 19:33	5
1,2,4-Trichlorobenzene	2.7	U Q	25	2.7	ug/L			11/02/23 19:33	5
1,2-Dibromo-3-Chloropropane	9.0	U Q	25	9.0	ug/L			11/02/23 19:33	5
1,2-Dibromoethane (EDB)	1.7	U Q	5.0	1.7	ug/L			11/02/23 19:33	5
1,2-Dichlorobenzene	1.6	U Q	5.0	1.6	ug/L			11/02/23 19:33	5
1,2-Dichloroethane	1.3	U Q	5.0	1.3	ug/L			11/02/23 19:33	5
1,2-Dichloropropane	1.1	U Q	5.0	1.1	ug/L			11/02/23 19:33	5
1,3-Dichlorobenzene	1.6	U Q	5.0	1.6	ug/L			11/02/23 19:33	5
1,4-Dichlorobenzene	1.6	U Q	5.0	1.6	ug/L			11/02/23 19:33	5
2-Butanone (MEK)	32	U Q J3	50	32	ug/L			11/02/23 19:33	5

Client Sample ID: LC34-DPT1015-025.0-20231025
Lab Sample ID: 670-29412-4
Date Collected: 10/25/23 14:50
Matrix: Water
Date Received: 10/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	16	U Q J3	50	16	ug/L			11/02/23 19:33	5
4-Methyl-2-pentanone	14	U Q J3	50	14	ug/L			11/02/23 19:33	5
Acetone	19	U Q J3	50	19	ug/L			11/02/23 19:33	5
Benzene	1.4	U Q	5.0	1.4	ug/L			11/02/23 19:33	5
Bromodichloromethane	1.3	U Q	5.0	1.3	ug/L			11/02/23 19:33	5
Bromoform	3.0	U Q J3	5.0	3.0	ug/L			11/02/23 19:33	5
Bromomethane	19	U Q	25	19	ug/L			11/02/23 19:33	5
Carbon disulfide	2.2	U Q	10	2.2	ug/L			11/02/23 19:33	5
Carbon tetrachloride	1.5	U Q	5.0	1.5	ug/L			11/02/23 19:33	5
Chlorobenzene	0.75	U Q	5.0	0.75	ug/L			11/02/23 19:33	5
Chloroethane	23	U Q	25	23	ug/L			11/02/23 19:33	5
Chloroform	1.4	U Q	5.0	1.4	ug/L			11/02/23 19:33	5
Chloromethane	2.7	U Q	5.0	2.7	ug/L			11/02/23 19:33	5
cis-1,2-Dichloroethene	**610**	**Q**	5.0	1.3	ug/L			11/02/23 19:33	5
cis-1,3-Dichloropropene	1.3	U Q	5.0	1.3	ug/L			11/02/23 19:33	5
Cyclohexane	1.4	U Q	5.0	1.4	ug/L			11/02/23 19:33	5
Dibromochloromethane	2.0	U Q	5.0	2.0	ug/L			11/02/23 19:33	5
Dichlorodifluoromethane	1.8	U Q	5.0	1.8	ug/L			11/02/23 19:33	5
Ethylbenzene	1.0	U Q	5.0	1.0	ug/L			11/02/23 19:33	5
Isopropylbenzene	1.3	U Q	5.0	1.3	ug/L			11/02/23 19:33	5
m,p-Xylenes	2.5	U Q	5.0	2.5	ug/L			11/02/23 19:33	5
Methyl acetate	16	U Q J3	25	16	ug/L			11/02/23 19:33	5
Methyl tert-butyl ether	4.1	U Q	25	4.1	ug/L			11/02/23 19:33	5
Methylene Chloride	16	U Q	25	16	ug/L			11/02/23 19:33	5
o-Xylene	1.3	U Q	5.0	1.3	ug/L			11/02/23 19:33	5
Styrene	1.4	U Q	5.0	1.4	ug/L			11/02/23 19:33	5
Tetrachloroethene	1.8	U Q	5.0	1.8	ug/L			11/02/23 19:33	5
Toluene	1.3	U Q	5.0	1.3	ug/L			11/02/23 19:33	5
trans-1,2-Dichloroethene	**13**	**Q**	5.0	1.7	ug/L			11/02/23 19:33	5
trans-1,3-Dichloropropene	1.2	U Q	5.0	1.2	ug/L			11/02/23 19:33	5
Trichloroethene	1.0	U Q	5.0	1.0	ug/L			11/02/23 19:33	5
Trichlorofluoromethane	1.7	U Q	5.0	1.7	ug/L			11/02/23 19:33	5
Vinyl chloride	**280**	**Q**	5.0	2.0	ug/L			11/02/23 19:33	5
Xylenes, Total	1.2	U Q	5.0	1.2	ug/L			11/02/23 19:33	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 124*		*11/02/23 19:33*	*5*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*11/02/23 19:33*	*5*
Dibromofluoromethane (Surr)	*90*		*70 - 130*		*11/02/23 19:33*	*5*
Toluene-d8 (Surr)	*99*		*70 - 130*		*11/02/23 19:33*	*5*

Client Sample ID: LC34-DPT1015-034.0-20231025
Lab Sample ID: 670-29412-5
Date Collected: 10/25/23 15:10
Matrix: Water
Date Received: 10/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.42	U	2.0	0.42	ug/L			11/03/23 20:37	2
1,1,2,2-Tetrachloroethane	0.80	U	2.0	0.80	ug/L			11/03/23 20:37	2
1,1,2-Trichloro-1,2,2-trifluoroethane	0.46	U	2.0	0.46	ug/L			11/03/23 20:37	2

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-29412-1

Client Sample ID: LC34-DPT1015-034.0-20231025
Date Collected: 10/25/23 15:10
Date Received: 10/27/23 08:00

Lab Sample ID: 670-29412-5
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	0.64	U	2.0	0.64	ug/L			11/03/23 20:37	2
1,1-Dichloroethane	0.66	U	2.0	0.66	ug/L			11/03/23 20:37	2
1,1-Dichloroethene	0.66	U	2.0	0.66	ug/L			11/03/23 20:37	2
1,2,4-Trichlorobenzene	1.1	U	10	1.1	ug/L			11/03/23 20:37	2
1,2-Dibromo-3-Chloropropane	3.6	U	10	3.6	ug/L			11/03/23 20:37	2
1,2-Dibromoethane (EDB)	0.66	U	2.0	0.66	ug/L			11/03/23 20:37	2
1,2-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			11/03/23 20:37	2
1,2-Dichloroethane	0.50	U	2.0	0.50	ug/L			11/03/23 20:37	2
1,2-Dichloropropane	0.44	U	2.0	0.44	ug/L			11/03/23 20:37	2
1,3-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			11/03/23 20:37	2
1,4-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			11/03/23 20:37	2
2-Butanone (MEK)	13	U	20	13	ug/L			11/03/23 20:37	2
2-Hexanone	6.4	U J3	20	6.4	ug/L			11/03/23 20:37	2
4-Methyl-2-pentanone	5.4	U	20	5.4	ug/L			11/03/23 20:37	2
Acetone	7.4	U	20	7.4	ug/L			11/03/23 20:37	2
Benzene	0.54	U	2.0	0.54	ug/L			11/03/23 20:37	2
Bromodichloromethane	0.50	U	2.0	0.50	ug/L			11/03/23 20:37	2
Bromoform	1.2	U J3	2.0	1.2	ug/L			11/03/23 20:37	2
Bromomethane	7.4	U	10	7.4	ug/L			11/03/23 20:37	2
Carbon disulfide	0.86	U	4.0	0.86	ug/L			11/03/23 20:37	2
Carbon tetrachloride	0.60	U	2.0	0.60	ug/L			11/03/23 20:37	2
Chlorobenzene	0.30	U	2.0	0.30	ug/L			11/03/23 20:37	2
Chloroethane	9.2	U	10	9.2	ug/L			11/03/23 20:37	2
Chloroform	0.54	U	2.0	0.54	ug/L			11/03/23 20:37	2
Chloromethane	1.1	U	2.0	1.1	ug/L			11/03/23 20:37	2
cis-1,2-Dichloroethene	**28**		2.0	0.50	ug/L			11/03/23 20:37	2
cis-1,3-Dichloropropene	0.52	U	2.0	0.52	ug/L			11/03/23 20:37	2
Cyclohexane	0.56	U	2.0	0.56	ug/L			11/03/23 20:37	2
Dibromochloromethane	**1.1**	**I**	2.0	0.78	ug/L			11/03/23 20:37	2
Dichlorodifluoromethane	0.72	U	2.0	0.72	ug/L			11/03/23 20:37	2
Ethylbenzene	0.40	U	2.0	0.40	ug/L			11/03/23 20:37	2
Isopropylbenzene	0.52	U	2.0	0.52	ug/L			11/03/23 20:37	2
m,p-Xylenes	0.98	U	2.0	0.98	ug/L			11/03/23 20:37	2
Methyl acetate	6.4	U	10	6.4	ug/L			11/03/23 20:37	2
Methyl tert-butyl ether	1.6	U	10	1.6	ug/L			11/03/23 20:37	2
Methylene Chloride	6.4	U	10	6.4	ug/L			11/03/23 20:37	2
o-Xylene	0.52	U	2.0	0.52	ug/L			11/03/23 20:37	2
Styrene	0.54	U	2.0	0.54	ug/L			11/03/23 20:37	2
Tetrachloroethene	0.70	U	2.0	0.70	ug/L			11/03/23 20:37	2
Toluene	0.50	U	2.0	0.50	ug/L			11/03/23 20:37	2
trans-1,2-Dichloroethene	0.68	U	2.0	0.68	ug/L			11/03/23 20:37	2
trans-1,3-Dichloropropene	0.46	U	2.0	0.46	ug/L			11/03/23 20:37	2
Trichloroethene	0.40	U	2.0	0.40	ug/L			11/03/23 20:37	2
Trichlorofluoromethane	0.66	U	2.0	0.66	ug/L			11/03/23 20:37	2
Vinyl chloride	**24**		2.0	0.80	ug/L			11/03/23 20:37	2
Xylenes, Total	0.46	U	2.0	0.46	ug/L			11/03/23 20:37	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*60 - 124*		*11/03/23 20:37*	*2*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*11/03/23 20:37*	*2*

Client Sample ID: LC34-DPT1015-034.0-20231025
Lab Sample ID: 670-29412-5
Date Collected: 10/25/23 15:10
Matrix: Water
Date Received: 10/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*94*		*70 - 130*		*11/03/23 20:37*	*2*
Toluene-d8 (Surr)	*116*		*70 - 130*		*11/03/23 20:37*	*2*

Client Sample ID: LC34-DPT1015-038.0 -20231025
Lab Sample ID: 670-29412-6
Date Collected: 10/25/23 15:30
Matrix: Water
Date Received: 10/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			11/03/23 14:25	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			11/03/23 14:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			11/03/23 14:25	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			11/03/23 14:25	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			11/03/23 14:25	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			11/03/23 14:25	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			11/03/23 14:25	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			11/03/23 14:25	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			11/03/23 14:25	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/03/23 14:25	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			11/03/23 14:25	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			11/03/23 14:25	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/03/23 14:25	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/03/23 14:25	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			11/03/23 14:25	1
2-Hexanone	3.2	U J3	10	3.2	ug/L			11/03/23 14:25	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			11/03/23 14:25	1
Acetone	3.7	U	10	3.7	ug/L			11/03/23 14:25	1
Benzene	0.27	U	1.0	0.27	ug/L			11/03/23 14:25	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			11/03/23 14:25	1
Bromoform	0.59	U J3	1.0	0.59	ug/L			11/03/23 14:25	1
Bromomethane	3.7	U	5.0	3.7	ug/L			11/03/23 14:25	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			11/03/23 14:25	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			11/03/23 14:25	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			11/03/23 14:25	1
Chloroethane	4.6	U	5.0	4.6	ug/L			11/03/23 14:25	1
Chloroform	0.27	U	1.0	0.27	ug/L			11/03/23 14:25	1
Chloromethane	0.54	U	1.0	0.54	ug/L			11/03/23 14:25	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			11/03/23 14:25	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			11/03/23 14:25	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			11/03/23 14:25	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			11/03/23 14:25	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			11/03/23 14:25	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			11/03/23 14:25	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			11/03/23 14:25	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			11/03/23 14:25	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			11/03/23 14:25	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			11/03/23 14:25	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			11/03/23 14:25	1
o-Xylene	0.26	U	1.0	0.26	ug/L			11/03/23 14:25	1

Client Sample ID: LC34-DPT1015-038.0 -20231025

Lab Sample ID: 670-29412-6

Date Collected: 10/25/23 15:30

Matrix: Water

Date Received: 10/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.27	U	1.0	0.27	ug/L			11/03/23 14:25	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			11/03/23 14:25	1
Toluene	0.25	U	1.0	0.25	ug/L			11/03/23 14:25	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			11/03/23 14:25	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			11/03/23 14:25	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			11/03/23 14:25	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			11/03/23 14:25	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			11/03/23 14:25	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/03/23 14:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*60 - 124*		*11/03/23 14:25*	*1*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*11/03/23 14:25*	*1*
Dibromofluoromethane (Surr)	*86*		*70 - 130*		*11/03/23 14:25*	*1*
Toluene-d8 (Surr)	*90*		*70 - 130*		*11/03/23 14:25*	*1*

Client Sample ID: LC34-DPT1016-008.0-20231025

Lab Sample ID: 670-29412-7

Date Collected: 10/25/23 16:10

Matrix: Water

Date Received: 10/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			11/03/23 14:49	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			11/03/23 14:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			11/03/23 14:49	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			11/03/23 14:49	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			11/03/23 14:49	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			11/03/23 14:49	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			11/03/23 14:49	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			11/03/23 14:49	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			11/03/23 14:49	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/03/23 14:49	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			11/03/23 14:49	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			11/03/23 14:49	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/03/23 14:49	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/03/23 14:49	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			11/03/23 14:49	1
2-Hexanone	3.2	U J3	10	3.2	ug/L			11/03/23 14:49	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			11/03/23 14:49	1
Acetone	3.7	U	10	3.7	ug/L			11/03/23 14:49	1
Benzene	0.27	U	1.0	0.27	ug/L			11/03/23 14:49	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			11/03/23 14:49	1
Bromoform	0.59	U J3	1.0	0.59	ug/L			11/03/23 14:49	1
Bromomethane	3.7	U	5.0	3.7	ug/L			11/03/23 14:49	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			11/03/23 14:49	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			11/03/23 14:49	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			11/03/23 14:49	1
Chloroethane	4.6	U	5.0	4.6	ug/L			11/03/23 14:49	1
Chloroform	0.27	U	1.0	0.27	ug/L			11/03/23 14:49	1
Chloromethane	0.54	U	1.0	0.54	ug/L			11/03/23 14:49	1

Client Sample ID: LC34-DPT1016-008.0-20231025

Lab Sample ID: 670-29412-7

Date Collected: 10/25/23 16:10

Matrix: Water

Date Received: 10/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**25**		1.0	0.25	ug/L			11/03/23 14:49	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			11/03/23 14:49	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			11/03/23 14:49	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			11/03/23 14:49	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			11/03/23 14:49	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			11/03/23 14:49	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			11/03/23 14:49	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			11/03/23 14:49	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			11/03/23 14:49	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			11/03/23 14:49	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			11/03/23 14:49	1
o-Xylene	0.26	U	1.0	0.26	ug/L			11/03/23 14:49	1
Styrene	0.27	U	1.0	0.27	ug/L			11/03/23 14:49	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			11/03/23 14:49	1
Toluene	0.25	U	1.0	0.25	ug/L			11/03/23 14:49	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			11/03/23 14:49	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			11/03/23 14:49	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			11/03/23 14:49	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			11/03/23 14:49	1
Vinyl chloride	**35**		1.0	0.40	ug/L			11/03/23 14:49	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/03/23 14:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*		*11/03/23 14:49*	*1*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*11/03/23 14:49*	*1*
Dibromofluoromethane (Surr)	*93*		*70 - 130*		*11/03/23 14:49*	*1*
Toluene-d8 (Surr)	*94*		*70 - 130*		*11/03/23 14:49*	*1*

Client Sample ID: LC34-DPT1016- 013.0-20231025

Lab Sample ID: 670-29412-8

Date Collected: 10/25/23 16:25

Matrix: Water

Date Received: 10/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			11/03/23 15:12	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			11/03/23 15:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			11/03/23 15:12	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			11/03/23 15:12	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			11/03/23 15:12	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			11/03/23 15:12	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			11/03/23 15:12	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			11/03/23 15:12	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			11/03/23 15:12	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/03/23 15:12	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			11/03/23 15:12	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			11/03/23 15:12	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/03/23 15:12	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/03/23 15:12	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			11/03/23 15:12	1
2-Hexanone	3.2	U J3	10	3.2	ug/L			11/03/23 15:12	1

Client Sample ID: LC34-DPT1016- 013.0-20231025

Lab Sample ID: 670-29412-8

Date Collected: 10/25/23 16:25
Matrix: Water
Date Received: 10/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			11/03/23 15:12	1
Acetone	**5.1**	**I**	10	3.7	ug/L			11/03/23 15:12	1
Benzene	0.27	U	1.0	0.27	ug/L			11/03/23 15:12	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			11/03/23 15:12	1
Bromoform	0.59	U J3	1.0	0.59	ug/L			11/03/23 15:12	1
Bromomethane	3.7	U	5.0	3.7	ug/L			11/03/23 15:12	1
Carbon disulfide	**0.61**	**I**	2.0	0.43	ug/L			11/03/23 15:12	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			11/03/23 15:12	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			11/03/23 15:12	1
Chloroethane	4.6	U	5.0	4.6	ug/L			11/03/23 15:12	1
Chloroform	0.27	U	1.0	0.27	ug/L			11/03/23 15:12	1
Chloromethane	0.54	U	1.0	0.54	ug/L			11/03/23 15:12	1
cis-1,2-Dichloroethene	**190**		1.0	0.25	ug/L			11/03/23 15:12	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			11/03/23 15:12	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			11/03/23 15:12	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			11/03/23 15:12	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			11/03/23 15:12	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			11/03/23 15:12	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			11/03/23 15:12	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			11/03/23 15:12	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			11/03/23 15:12	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			11/03/23 15:12	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			11/03/23 15:12	1
o-Xylene	0.26	U	1.0	0.26	ug/L			11/03/23 15:12	1
Styrene	0.27	U	1.0	0.27	ug/L			11/03/23 15:12	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			11/03/23 15:12	1
Toluene	0.25	U	1.0	0.25	ug/L			11/03/23 15:12	1
trans-1,2-Dichloroethene	**2.7**		1.0	0.34	ug/L			11/03/23 15:12	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			11/03/23 15:12	1
Trichloroethene	**0.31**	**I**	1.0	0.20	ug/L			11/03/23 15:12	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			11/03/23 15:12	1
Vinyl chloride	**56**		1.0	0.40	ug/L			11/03/23 15:12	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/03/23 15:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*		*11/03/23 15:12*	*1*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*11/03/23 15:12*	*1*
Dibromofluoromethane (Surr)	*93*		*70 - 130*		*11/03/23 15:12*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*11/03/23 15:12*	*1*

Client Sample ID: LC34-DPT1016-018.0-20231025

Lab Sample ID: 670-29412-9

Date Collected: 10/25/23 16:40
Matrix: Water
Date Received: 10/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	5.0	1.1	ug/L			11/03/23 19:51	5
1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	ug/L			11/03/23 19:51	5
1,1,2-Trichloro-1,2,2-trifluoroethane	1.2	U	5.0	1.2	ug/L			11/03/23 19:51	5
1,1,2-Trichloroethane	1.6	U	5.0	1.6	ug/L			11/03/23 19:51	5

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-29412-1

Client Sample ID: LC34-DPT1016-018.0-20231025
Date Collected: 10/25/23 16:40
Date Received: 10/27/23 08:00

Lab Sample ID: 670-29412-9
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	1.7	U	5.0	1.7	ug/L			11/03/23 19:51	5
1,1-Dichloroethene	1.7	U	5.0	1.7	ug/L			11/03/23 19:51	5
1,2,4-Trichlorobenzene	2.7	U	25	2.7	ug/L			11/03/23 19:51	5
1,2-Dibromo-3-Chloropropane	9.0	U	25	9.0	ug/L			11/03/23 19:51	5
1,2-Dibromoethane (EDB)	1.7	U	5.0	1.7	ug/L			11/03/23 19:51	5
1,2-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			11/03/23 19:51	5
1,2-Dichloroethane	1.3	U	5.0	1.3	ug/L			11/03/23 19:51	5
1,2-Dichloropropane	1.1	U	5.0	1.1	ug/L			11/03/23 19:51	5
1,3-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			11/03/23 19:51	5
1,4-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			11/03/23 19:51	5
2-Butanone (MEK)	32	U	50	32	ug/L			11/03/23 19:51	5
2-Hexanone	16	U J3	50	16	ug/L			11/03/23 19:51	5
4-Methyl-2-pentanone	14	U	50	14	ug/L			11/03/23 19:51	5
Acetone	19	U	50	19	ug/L			11/03/23 19:51	5
Benzene	1.4	U	5.0	1.4	ug/L			11/03/23 19:51	5
Bromodichloromethane	1.3	U	5.0	1.3	ug/L			11/03/23 19:51	5
Bromoform	3.0	U J3	5.0	3.0	ug/L			11/03/23 19:51	5
Bromomethane	19	U	25	19	ug/L			11/03/23 19:51	5
Carbon disulfide	2.2	U	10	2.2	ug/L			11/03/23 19:51	5
Carbon tetrachloride	1.5	U	5.0	1.5	ug/L			11/03/23 19:51	5
Chlorobenzene	0.75	U	5.0	0.75	ug/L			11/03/23 19:51	5
Chloroethane	23	U	25	23	ug/L			11/03/23 19:51	5
Chloroform	1.4	U	5.0	1.4	ug/L			11/03/23 19:51	5
Chloromethane	2.7	U	5.0	2.7	ug/L			11/03/23 19:51	5
cis-1,2-Dichloroethene	**380**		5.0	1.3	ug/L			11/03/23 19:51	5
cis-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			11/03/23 19:51	5
Cyclohexane	1.4	U	5.0	1.4	ug/L			11/03/23 19:51	5
Dibromochloromethane	2.0	U	5.0	2.0	ug/L			11/03/23 19:51	5
Dichlorodifluoromethane	1.8	U	5.0	1.8	ug/L			11/03/23 19:51	5
Ethylbenzene	1.0	U	5.0	1.0	ug/L			11/03/23 19:51	5
Isopropylbenzene	1.3	U	5.0	1.3	ug/L			11/03/23 19:51	5
m,p-Xylenes	2.5	U	5.0	2.5	ug/L			11/03/23 19:51	5
Methyl acetate	16	U	25	16	ug/L			11/03/23 19:51	5
Methyl tert-butyl ether	4.1	U	25	4.1	ug/L			11/03/23 19:51	5
Methylene Chloride	16	U	25	16	ug/L			11/03/23 19:51	5
o-Xylene	1.3	U	5.0	1.3	ug/L			11/03/23 19:51	5
Styrene	1.4	U	5.0	1.4	ug/L			11/03/23 19:51	5
Tetrachloroethene	1.8	U	5.0	1.8	ug/L			11/03/23 19:51	5
Toluene	1.3	U	5.0	1.3	ug/L			11/03/23 19:51	5
trans-1,2-Dichloroethene	**7.6**		5.0	1.7	ug/L			11/03/23 19:51	5
trans-1,3-Dichloropropene	1.2	U	5.0	1.2	ug/L			11/03/23 19:51	5
Trichloroethene	1.0	U	5.0	1.0	ug/L			11/03/23 19:51	5
Trichlorofluoromethane	1.7	U	5.0	1.7	ug/L			11/03/23 19:51	5
Vinyl chloride	**150**		5.0	2.0	ug/L			11/03/23 19:51	5
Xylenes, Total	1.2	U	5.0	1.2	ug/L			11/03/23 19:51	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*60 - 124*		*11/03/23 19:51*	*5*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*11/03/23 19:51*	*5*
Dibromofluoromethane (Surr)	*91*		*70 - 130*		*11/03/23 19:51*	*5*

Client Sample ID: LC34-DPT1016-018.0-20231025

Lab Sample ID: 670-29412-9

Date Collected: 10/25/23 16:40
Matrix: Water
Date Received: 10/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*70 - 130*		*11/03/23 19:51*	*5*

Client Sample ID: LC34-DPT1016-025.0-20231025

Lab Sample ID: 670-29412-10

Date Collected: 10/25/23 16:55
Matrix: Water
Date Received: 10/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2.1	U	10	2.1	ug/L			11/03/23 17:54	10
1,1,2,2-Tetrachloroethane	4.0	U	10	4.0	ug/L			11/03/23 17:54	10
1,1,2-Trichloro-1,2,2-trifluoroethane	2.3	U	10	2.3	ug/L			11/03/23 17:54	10
1,1,2-Trichloroethane	3.2	U	10	3.2	ug/L			11/03/23 17:54	10
1,1-Dichloroethane	3.3	U	10	3.3	ug/L			11/03/23 17:54	10
1,1-Dichloroethene	3.3	U	10	3.3	ug/L			11/03/23 17:54	10
1,2,4-Trichlorobenzene	5.3	U	50	5.3	ug/L			11/03/23 17:54	10
1,2-Dibromo-3-Chloropropane	18	U	50	18	ug/L			11/03/23 17:54	10
1,2-Dibromoethane (EDB)	3.3	U	10	3.3	ug/L			11/03/23 17:54	10
1,2-Dichlorobenzene	3.1	U	10	3.1	ug/L			11/03/23 17:54	10
1,2-Dichloroethane	2.5	U	10	2.5	ug/L			11/03/23 17:54	10
1,2-Dichloropropane	2.2	U	10	2.2	ug/L			11/03/23 17:54	10
1,3-Dichlorobenzene	3.1	U	10	3.1	ug/L			11/03/23 17:54	10
1,4-Dichlorobenzene	3.1	U	10	3.1	ug/L			11/03/23 17:54	10
2-Butanone (MEK)	64	U	100	64	ug/L			11/03/23 17:54	10
2-Hexanone	32	U J3	100	32	ug/L			11/03/23 17:54	10
4-Methyl-2-pentanone	27	U	100	27	ug/L			11/03/23 17:54	10
Acetone	37	U	100	37	ug/L			11/03/23 17:54	10
Benzene	2.7	U	10	2.7	ug/L			11/03/23 17:54	10
Bromodichloromethane	2.5	U	10	2.5	ug/L			11/03/23 17:54	10
Bromoform	5.9	U J3	10	5.9	ug/L			11/03/23 17:54	10
Bromomethane	37	U	50	37	ug/L			11/03/23 17:54	10
Carbon disulfide	4.3	U	20	4.3	ug/L			11/03/23 17:54	10
Carbon tetrachloride	3.0	U	10	3.0	ug/L			11/03/23 17:54	10
Chlorobenzene	1.5	U	10	1.5	ug/L			11/03/23 17:54	10
Chloroethane	46	U	50	46	ug/L			11/03/23 17:54	10
Chloroform	2.7	U	10	2.7	ug/L			11/03/23 17:54	10
Chloromethane	5.4	U	10	5.4	ug/L			11/03/23 17:54	10
cis-1,2-Dichloroethene	**980**		10	2.5	ug/L			11/03/23 17:54	10
cis-1,3-Dichloropropene	2.6	U	10	2.6	ug/L			11/03/23 17:54	10
Cyclohexane	2.8	U	10	2.8	ug/L			11/03/23 17:54	10
Dibromochloromethane	3.9	U	10	3.9	ug/L			11/03/23 17:54	10
Dichlorodifluoromethane	3.6	U	10	3.6	ug/L			11/03/23 17:54	10
Ethylbenzene	2.0	U	10	2.0	ug/L			11/03/23 17:54	10
Isopropylbenzene	2.6	U	10	2.6	ug/L			11/03/23 17:54	10
m,p-Xylenes	4.9	U	10	4.9	ug/L			11/03/23 17:54	10
Methyl acetate	32	U	50	32	ug/L			11/03/23 17:54	10
Methyl tert-butyl ether	8.1	U	50	8.1	ug/L			11/03/23 17:54	10
Methylene Chloride	32	U	50	32	ug/L			11/03/23 17:54	10
o-Xylene	2.6	U	10	2.6	ug/L			11/03/23 17:54	10
Styrene	2.7	U	10	2.7	ug/L			11/03/23 17:54	10

Client Sample ID: LC34-DPT1016-025.0-20231025

Lab Sample ID: 670-29412-10

Date Collected: 10/25/23 16:55

Matrix: Water

Date Received: 10/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	3.5	U	10	3.5	ug/L			11/03/23 17:54	10
Toluene	2.5	U	10	2.5	ug/L			11/03/23 17:54	10
trans-1,2-Dichloroethene	**4.9**	**I**	10	3.4	ug/L			11/03/23 17:54	10
trans-1,3-Dichloropropene	2.3	U	10	2.3	ug/L			11/03/23 17:54	10
Trichloroethene	2.0	U	10	2.0	ug/L			11/03/23 17:54	10
Trichlorofluoromethane	3.3	U	10	3.3	ug/L			11/03/23 17:54	10
Vinyl chloride	**68**		10	4.0	ug/L			11/03/23 17:54	10
Xylenes, Total	2.3	U	10	2.3	ug/L			11/03/23 17:54	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 124*		*11/03/23 17:54*	*10*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*11/03/23 17:54*	*10*
Dibromofluoromethane (Surr)	*95*		*70 - 130*		*11/03/23 17:54*	*10*
Toluene-d8 (Surr)	*103*		*70 - 130*		*11/03/23 17:54*	*10*

Client Sample ID: LC34-DPT1016-034.0-20231026

Lab Sample ID: 670-29412-11

Date Collected: 10/26/23 07:45

Matrix: Water

Date Received: 10/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			11/02/23 14:27	1
1,1,2,2-Tetrachloroethane	0.40	U J3	1.0	0.40	ug/L			11/02/23 14:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			11/02/23 14:27	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			11/02/23 14:27	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			11/02/23 14:27	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			11/02/23 14:27	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			11/02/23 14:27	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			11/02/23 14:27	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			11/02/23 14:27	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/02/23 14:27	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			11/02/23 14:27	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			11/02/23 14:27	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/02/23 14:27	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/02/23 14:27	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			11/02/23 14:27	1
2-Hexanone	3.2	U J3	10	3.2	ug/L			11/02/23 14:27	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			11/02/23 14:27	1
Acetone	3.7	U J3	10	3.7	ug/L			11/02/23 14:27	1
Benzene	0.27	U	1.0	0.27	ug/L			11/02/23 14:27	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			11/02/23 14:27	1
Bromoform	0.59	U J3	1.0	0.59	ug/L			11/02/23 14:27	1
Bromomethane	3.7	U	5.0	3.7	ug/L			11/02/23 14:27	1
Carbon disulfide	**1.8**	**I**	2.0	0.43	ug/L			11/02/23 14:27	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			11/02/23 14:27	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			11/02/23 14:27	1
Chloroethane	4.6	U	5.0	4.6	ug/L			11/02/23 14:27	1
Chloroform	0.27	U	1.0	0.27	ug/L			11/02/23 14:27	1
Chloromethane	0.54	U	1.0	0.54	ug/L			11/02/23 14:27	1
cis-1,2-Dichloroethene	**90**		1.0	0.25	ug/L			11/02/23 14:27	1

Client Sample ID: LC34-DPT1016-034.0-20231026

Lab Sample ID: 670-29412-11

Date Collected: 10/26/23 07:45

Matrix: Water

Date Received: 10/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			11/02/23 14:27	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			11/02/23 14:27	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			11/02/23 14:27	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			11/02/23 14:27	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			11/02/23 14:27	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			11/02/23 14:27	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			11/02/23 14:27	1
Methyl acetate	3.2	U J3	5.0	3.2	ug/L			11/02/23 14:27	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			11/02/23 14:27	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			11/02/23 14:27	1
o-Xylene	0.26	U	1.0	0.26	ug/L			11/02/23 14:27	1
Styrene	0.27	U	1.0	0.27	ug/L			11/02/23 14:27	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			11/02/23 14:27	1
Toluene	0.25	U	1.0	0.25	ug/L			11/02/23 14:27	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			11/02/23 14:27	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			11/02/23 14:27	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			11/02/23 14:27	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			11/02/23 14:27	1
Vinyl chloride	**73**		1.0	0.40	ug/L			11/02/23 14:27	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/02/23 14:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 124*		*11/02/23 14:27*	*1*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*11/02/23 14:27*	*1*
Dibromofluoromethane (Surr)	*93*		*70 - 130*		*11/02/23 14:27*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*11/02/23 14:27*	*1*

Client Sample ID: LC34-DPT1016-038.0-20231026

Lab Sample ID: 670-29412-12

Date Collected: 10/26/23 08:10

Matrix: Water

Date Received: 10/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			11/02/23 14:50	1
1,1,2,2-Tetrachloroethane	0.40	U J3	1.0	0.40	ug/L			11/02/23 14:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			11/02/23 14:50	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			11/02/23 14:50	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			11/02/23 14:50	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			11/02/23 14:50	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			11/02/23 14:50	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			11/02/23 14:50	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			11/02/23 14:50	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/02/23 14:50	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			11/02/23 14:50	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			11/02/23 14:50	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/02/23 14:50	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/02/23 14:50	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			11/02/23 14:50	1
2-Hexanone	3.2	U J3	10	3.2	ug/L			11/02/23 14:50	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			11/02/23 14:50	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-29412-1

Client Sample ID: LC34-DPT1016-038.0-20231026

Lab Sample ID: 670-29412-12

Date Collected: 10/26/23 08:10
Matrix: Water
Date Received: 10/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	3.7	U J3	10	3.7	ug/L			11/02/23 14:50	1
Benzene	0.27	U	1.0	0.27	ug/L			11/02/23 14:50	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			11/02/23 14:50	1
Bromoform	0.59	U J3	1.0	0.59	ug/L			11/02/23 14:50	1
Bromomethane	3.7	U	5.0	3.7	ug/L			11/02/23 14:50	1
Carbon disulfide	**0.60**	**I**	2.0	0.43	ug/L			11/02/23 14:50	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			11/02/23 14:50	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			11/02/23 14:50	1
Chloroethane	4.6	U	5.0	4.6	ug/L			11/02/23 14:50	1
Chloroform	0.27	U	1.0	0.27	ug/L			11/02/23 14:50	1
Chloromethane	0.54	U	1.0	0.54	ug/L			11/02/23 14:50	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			11/02/23 14:50	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			11/02/23 14:50	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			11/02/23 14:50	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			11/02/23 14:50	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			11/02/23 14:50	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			11/02/23 14:50	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			11/02/23 14:50	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			11/02/23 14:50	1
Methyl acetate	3.2	U J3	5.0	3.2	ug/L			11/02/23 14:50	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			11/02/23 14:50	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			11/02/23 14:50	1
o-Xylene	0.26	U	1.0	0.26	ug/L			11/02/23 14:50	1
Styrene	0.27	U	1.0	0.27	ug/L			11/02/23 14:50	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			11/02/23 14:50	1
Toluene	0.25	U	1.0	0.25	ug/L			11/02/23 14:50	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			11/02/23 14:50	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			11/02/23 14:50	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			11/02/23 14:50	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			11/02/23 14:50	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			11/02/23 14:50	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/02/23 14:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 124*		*11/02/23 14:50*	*1*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*11/02/23 14:50*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*11/02/23 14:50*	*1*
Toluene-d8 (Surr)	*92*		*70 - 130*		*11/02/23 14:50*	*1*

Client Sample ID: LC34-DPT1017-008.0-20231026

Lab Sample ID: 670-29412-13

Date Collected: 10/26/23 08:45
Matrix: Water
Date Received: 10/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			11/02/23 15:14	1
1,1,2,2-Tetrachloroethane	0.40	U J3	1.0	0.40	ug/L			11/02/23 15:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			11/02/23 15:14	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			11/02/23 15:14	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			11/02/23 15:14	1

Client Sample ID: LC34-DPT1017-008.0-20231026
Date Collected: 10/26/23 08:45
Date Received: 10/27/23 08:00

Lab Sample ID: 670-29412-13
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			11/02/23 15:14	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			11/02/23 15:14	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			11/02/23 15:14	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			11/02/23 15:14	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/02/23 15:14	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			11/02/23 15:14	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			11/02/23 15:14	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/02/23 15:14	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/02/23 15:14	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			11/02/23 15:14	1
2-Hexanone	3.2	U J3	10	3.2	ug/L			11/02/23 15:14	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			11/02/23 15:14	1
Acetone	3.7	U J3	10	3.7	ug/L			11/02/23 15:14	1
Benzene	0.27	U	1.0	0.27	ug/L			11/02/23 15:14	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			11/02/23 15:14	1
Bromoform	0.59	U J3	1.0	0.59	ug/L			11/02/23 15:14	1
Bromomethane	3.7	U	5.0	3.7	ug/L			11/02/23 15:14	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			11/02/23 15:14	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			11/02/23 15:14	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			11/02/23 15:14	1
Chloroethane	4.6	U	5.0	4.6	ug/L			11/02/23 15:14	1
Chloroform	0.27	U	1.0	0.27	ug/L			11/02/23 15:14	1
Chloromethane	0.54	U	1.0	0.54	ug/L			11/02/23 15:14	1
cis-1,2-Dichloroethene	**3.6**		1.0	0.25	ug/L			11/02/23 15:14	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			11/02/23 15:14	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			11/02/23 15:14	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			11/02/23 15:14	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			11/02/23 15:14	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			11/02/23 15:14	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			11/02/23 15:14	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			11/02/23 15:14	1
Methyl acetate	3.2	U J3	5.0	3.2	ug/L			11/02/23 15:14	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			11/02/23 15:14	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			11/02/23 15:14	1
o-Xylene	0.26	U	1.0	0.26	ug/L			11/02/23 15:14	1
Styrene	0.27	U	1.0	0.27	ug/L			11/02/23 15:14	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			11/02/23 15:14	1
Toluene	0.25	U	1.0	0.25	ug/L			11/02/23 15:14	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			11/02/23 15:14	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			11/02/23 15:14	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			11/02/23 15:14	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			11/02/23 15:14	1
Vinyl chloride	**17**		1.0	0.40	ug/L			11/02/23 15:14	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/02/23 15:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*		*11/02/23 15:14*	*1*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*11/02/23 15:14*	*1*
Dibromofluoromethane (Surr)	*92*		*70 - 130*		*11/02/23 15:14*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*11/02/23 15:14*	*1*

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-29412-1

Client Sample ID: LC34-DPT1017-013.0-20231026
Date Collected: 10/26/23 09:00
Date Received: 10/27/23 08:00

Lab Sample ID: 670-29412-14
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.42	U	2.0	0.42	ug/L			11/02/23 19:57	2
1,1,2,2-Tetrachloroethane	0.80	U J3	2.0	0.80	ug/L			11/02/23 19:57	2
1,1,2-Trichloro-1,2,2-trifluoroethane	0.46	U	2.0	0.46	ug/L			11/02/23 19:57	2
1,1,2-Trichloroethane	0.64	U	2.0	0.64	ug/L			11/02/23 19:57	2
1,1-Dichloroethane	0.66	U	2.0	0.66	ug/L			11/02/23 19:57	2
1,1-Dichloroethene	0.66	U	2.0	0.66	ug/L			11/02/23 19:57	2
1,2,4-Trichlorobenzene	1.1	U	10	1.1	ug/L			11/02/23 19:57	2
1,2-Dibromo-3-Chloropropane	3.6	U	10	3.6	ug/L			11/02/23 19:57	2
1,2-Dibromoethane (EDB)	0.66	U	2.0	0.66	ug/L			11/02/23 19:57	2
1,2-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			11/02/23 19:57	2
1,2-Dichloroethane	0.50	U	2.0	0.50	ug/L			11/02/23 19:57	2
1,2-Dichloropropane	0.44	U	2.0	0.44	ug/L			11/02/23 19:57	2
1,3-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			11/02/23 19:57	2
1,4-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			11/02/23 19:57	2
2-Butanone (MEK)	13	U J3	20	13	ug/L			11/02/23 19:57	2
2-Hexanone	6.4	U J3	20	6.4	ug/L			11/02/23 19:57	2
4-Methyl-2-pentanone	5.4	U J3	20	5.4	ug/L			11/02/23 19:57	2
Acetone	7.4	U J3	20	7.4	ug/L			11/02/23 19:57	2
Benzene	0.54	U	2.0	0.54	ug/L			11/02/23 19:57	2
Bromodichloromethane	0.50	U	2.0	0.50	ug/L			11/02/23 19:57	2
Bromoform	1.2	U J3	2.0	1.2	ug/L			11/02/23 19:57	2
Bromomethane	7.4	U	10	7.4	ug/L			11/02/23 19:57	2
Carbon disulfide	0.86	U	4.0	0.86	ug/L			11/02/23 19:57	2
Carbon tetrachloride	0.60	U	2.0	0.60	ug/L			11/02/23 19:57	2
Chlorobenzene	0.30	U	2.0	0.30	ug/L			11/02/23 19:57	2
Chloroethane	9.2	U	10	9.2	ug/L			11/02/23 19:57	2
Chloroform	0.54	U	2.0	0.54	ug/L			11/02/23 19:57	2
Chloromethane	1.1	U	2.0	1.1	ug/L			11/02/23 19:57	2
cis-1,2-Dichloroethene	**160**		2.0	0.50	ug/L			11/02/23 19:57	2
cis-1,3-Dichloropropene	0.52	U	2.0	0.52	ug/L			11/02/23 19:57	2
Cyclohexane	0.56	U	2.0	0.56	ug/L			11/02/23 19:57	2
Dibromochloromethane	0.78	U	2.0	0.78	ug/L			11/02/23 19:57	2
Dichlorodifluoromethane	0.72	U	2.0	0.72	ug/L			11/02/23 19:57	2
Ethylbenzene	0.40	U	2.0	0.40	ug/L			11/02/23 19:57	2
Isopropylbenzene	0.52	U	2.0	0.52	ug/L			11/02/23 19:57	2
m,p-Xylenes	0.98	U	2.0	0.98	ug/L			11/02/23 19:57	2
Methyl acetate	6.4	U J3	10	6.4	ug/L			11/02/23 19:57	2
Methyl tert-butyl ether	1.6	U	10	1.6	ug/L			11/02/23 19:57	2
Methylene Chloride	6.4	U	10	6.4	ug/L			11/02/23 19:57	2
o-Xylene	0.52	U	2.0	0.52	ug/L			11/02/23 19:57	2
Styrene	0.54	U	2.0	0.54	ug/L			11/02/23 19:57	2
Tetrachloroethene	**3.3**		2.0	0.70	ug/L			11/02/23 19:57	2
Toluene	0.50	U	2.0	0.50	ug/L			11/02/23 19:57	2
trans-1,2-Dichloroethene	0.68	U	2.0	0.68	ug/L			11/02/23 19:57	2
trans-1,3-Dichloropropene	0.46	U	2.0	0.46	ug/L			11/02/23 19:57	2
Trichloroethene	**2.1**		2.0	0.40	ug/L			11/02/23 19:57	2
Trichlorofluoromethane	0.66	U	2.0	0.66	ug/L			11/02/23 19:57	2
Vinyl chloride	**79**		2.0	0.80	ug/L			11/02/23 19:57	2
Xylenes, Total	0.46	U	2.0	0.46	ug/L			11/02/23 19:57	2

Client Sample ID: LC34-DPT1017-013.0-20231026
Lab Sample ID: 670-29412-14

Date Collected: 10/26/23 09:00
Matrix: Water
Date Received: 10/27/23 08:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*60 - 124*		*11/02/23 19:57*	*2*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*11/02/23 19:57*	*2*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*11/02/23 19:57*	*2*
Toluene-d8 (Surr)	*92*		*70 - 130*		*11/02/23 19:57*	*2*

Client Sample ID: LC34-DPT1017-018.0-20231026
Lab Sample ID: 670-29412-15

Date Collected: 10/26/23 09:15
Matrix: Water
Date Received: 10/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			11/02/23 15:37	1
1,1,2,2-Tetrachloroethane	0.40	U J3	1.0	0.40	ug/L			11/02/23 15:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			11/02/23 15:37	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			11/02/23 15:37	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			11/02/23 15:37	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			11/02/23 15:37	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			11/02/23 15:37	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			11/02/23 15:37	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			11/02/23 15:37	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/02/23 15:37	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			11/02/23 15:37	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			11/02/23 15:37	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/02/23 15:37	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/02/23 15:37	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			11/02/23 15:37	1
2-Hexanone	3.2	U J3	10	3.2	ug/L			11/02/23 15:37	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			11/02/23 15:37	1
Acetone	**6.9**	**I J3**	10	3.7	ug/L			11/02/23 15:37	1
Benzene	0.27	U	1.0	0.27	ug/L			11/02/23 15:37	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			11/02/23 15:37	1
Bromoform	0.59	U J3	1.0	0.59	ug/L			11/02/23 15:37	1
Bromomethane	3.7	U	5.0	3.7	ug/L			11/02/23 15:37	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			11/02/23 15:37	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			11/02/23 15:37	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			11/02/23 15:37	1
Chloroethane	4.6	U	5.0	4.6	ug/L			11/02/23 15:37	1
Chloroform	0.27	U	1.0	0.27	ug/L			11/02/23 15:37	1
Chloromethane	0.54	U	1.0	0.54	ug/L			11/02/23 15:37	1
cis-1,2-Dichloroethene	**160**		1.0	0.25	ug/L			11/02/23 15:37	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			11/02/23 15:37	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			11/02/23 15:37	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			11/02/23 15:37	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			11/02/23 15:37	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			11/02/23 15:37	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			11/02/23 15:37	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			11/02/23 15:37	1
Methyl acetate	3.2	U J3	5.0	3.2	ug/L			11/02/23 15:37	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			11/02/23 15:37	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			11/02/23 15:37	1

Client Sample ID: LC34-DPT1017-018.0-20231026

Lab Sample ID: 670-29412-15

Date Collected: 10/26/23 09:15

Matrix: Water

Date Received: 10/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	0.26	U	1.0	0.26	ug/L			11/02/23 15:37	1
Styrene	0.27	U	1.0	0.27	ug/L			11/02/23 15:37	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			11/02/23 15:37	1
Toluene	0.25	U	1.0	0.25	ug/L			11/02/23 15:37	1
trans-1,2-Dichloroethene	**1.1**		1.0	0.34	ug/L			11/02/23 15:37	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			11/02/23 15:37	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			11/02/23 15:37	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			11/02/23 15:37	1
Vinyl chloride	**7.2**		1.0	0.40	ug/L			11/02/23 15:37	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/02/23 15:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 124*		*11/02/23 15:37*	*1*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*		*11/02/23 15:37*	*1*
Dibromofluoromethane (Surr)	*94*		*70 - 130*		*11/02/23 15:37*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*11/02/23 15:37*	*1*

Client Sample ID: LC34-DPT1017-025.0-20231026

Lab Sample ID: 670-29412-16

Date Collected: 10/26/23 09:30

Matrix: Water

Date Received: 10/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			11/02/23 16:01	1
1,1,2,2-Tetrachloroethane	0.40	U J3	1.0	0.40	ug/L			11/02/23 16:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			11/02/23 16:01	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			11/02/23 16:01	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			11/02/23 16:01	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			11/02/23 16:01	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			11/02/23 16:01	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			11/02/23 16:01	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			11/02/23 16:01	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/02/23 16:01	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			11/02/23 16:01	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			11/02/23 16:01	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/02/23 16:01	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/02/23 16:01	1
2-Butanone (MEK)	**6.5**	**I J3**	10	6.4	ug/L			11/02/23 16:01	1
2-Hexanone	3.2	U J3	10	3.2	ug/L			11/02/23 16:01	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			11/02/23 16:01	1
Acetone	3.7	U J3	10	3.7	ug/L			11/02/23 16:01	1
Benzene	0.27	U	1.0	0.27	ug/L			11/02/23 16:01	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			11/02/23 16:01	1
Bromoform	0.59	U J3	1.0	0.59	ug/L			11/02/23 16:01	1
Bromomethane	3.7	U	5.0	3.7	ug/L			11/02/23 16:01	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			11/02/23 16:01	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			11/02/23 16:01	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			11/02/23 16:01	1
Chloroethane	4.6	U	5.0	4.6	ug/L			11/02/23 16:01	1
Chloroform	0.27	U	1.0	0.27	ug/L			11/02/23 16:01	1

Client Sample ID: LC34-DPT1017-025.0-20231026
Lab Sample ID: 670-29412-16
Date Collected: 10/26/23 09:30
Matrix: Water
Date Received: 10/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	0.54	U	1.0	0.54	ug/L			11/02/23 16:01	1
cis-1,2-Dichloroethene	**30**		1.0	0.25	ug/L			11/02/23 16:01	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			11/02/23 16:01	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			11/02/23 16:01	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			11/02/23 16:01	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			11/02/23 16:01	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			11/02/23 16:01	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			11/02/23 16:01	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			11/02/23 16:01	1
Methyl acetate	3.2	U J3	5.0	3.2	ug/L			11/02/23 16:01	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			11/02/23 16:01	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			11/02/23 16:01	1
o-Xylene	0.26	U	1.0	0.26	ug/L			11/02/23 16:01	1
Styrene	0.27	U	1.0	0.27	ug/L			11/02/23 16:01	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			11/02/23 16:01	1
Toluene	0.25	U	1.0	0.25	ug/L			11/02/23 16:01	1
trans-1,2-Dichloroethene	**0.55**	**I**	1.0	0.34	ug/L			11/02/23 16:01	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			11/02/23 16:01	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			11/02/23 16:01	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			11/02/23 16:01	1
Vinyl chloride	**38**		1.0	0.40	ug/L			11/02/23 16:01	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/02/23 16:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*		*11/02/23 16:01*	*1*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*11/02/23 16:01*	*1*
Dibromofluoromethane (Surr)	*85*		*70 - 130*		*11/02/23 16:01*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*11/02/23 16:01*	*1*

Client Sample ID: LC34-DPT1017-034.0-20231026
Lab Sample ID: 670-29412-17
Date Collected: 10/26/23 09:45
Matrix: Water
Date Received: 10/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.42	U	2.0	0.42	ug/L			11/02/23 20:20	2
1,1,2,2-Tetrachloroethane	0.80	U J3	2.0	0.80	ug/L			11/02/23 20:20	2
1,1,2-Trichloro-1,2,2-trifluoroethane	0.46	U	2.0	0.46	ug/L			11/02/23 20:20	2
1,1,2-Trichloroethane	0.64	U	2.0	0.64	ug/L			11/02/23 20:20	2
1,1-Dichloroethane	0.66	U	2.0	0.66	ug/L			11/02/23 20:20	2
1,1-Dichloroethene	0.66	U	2.0	0.66	ug/L			11/02/23 20:20	2
1,2,4-Trichlorobenzene	1.1	U	10	1.1	ug/L			11/02/23 20:20	2
1,2-Dibromo-3-Chloropropane	3.6	U	10	3.6	ug/L			11/02/23 20:20	2
1,2-Dibromoethane (EDB)	0.66	U	2.0	0.66	ug/L			11/02/23 20:20	2
1,2-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			11/02/23 20:20	2
1,2-Dichloroethane	0.50	U	2.0	0.50	ug/L			11/02/23 20:20	2
1,2-Dichloropropane	0.44	U	2.0	0.44	ug/L			11/02/23 20:20	2
1,3-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			11/02/23 20:20	2
1,4-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			11/02/23 20:20	2
2-Butanone (MEK)	13	U J3	20	13	ug/L			11/02/23 20:20	2

Client Sample ID: LC34-DPT1017-034.0-20231026

Lab Sample ID: 670-29412-17

Date Collected: 10/26/23 09:45

Matrix: Water

Date Received: 10/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	6.4	U J3	20	6.4	ug/L			11/02/23 20:20	2
4-Methyl-2-pentanone	5.4	U J3	20	5.4	ug/L			11/02/23 20:20	2
Acetone	7.4	U J3	20	7.4	ug/L			11/02/23 20:20	2
Benzene	0.54	U	2.0	0.54	ug/L			11/02/23 20:20	2
Bromodichloromethane	0.50	U	2.0	0.50	ug/L			11/02/23 20:20	2
Bromoform	1.2	U J3	2.0	1.2	ug/L			11/02/23 20:20	2
Bromomethane	7.4	U	10	7.4	ug/L			11/02/23 20:20	2
Carbon disulfide	0.86	U	4.0	0.86	ug/L			11/02/23 20:20	2
Carbon tetrachloride	0.60	U	2.0	0.60	ug/L			11/02/23 20:20	2
Chlorobenzene	0.30	U	2.0	0.30	ug/L			11/02/23 20:20	2
Chloroethane	9.2	U	10	9.2	ug/L			11/02/23 20:20	2
Chloroform	0.54	U	2.0	0.54	ug/L			11/02/23 20:20	2
Chloromethane	1.1	U	2.0	1.1	ug/L			11/02/23 20:20	2
cis-1,2-Dichloroethene	**220**		2.0	0.50	ug/L			11/02/23 20:20	2
cis-1,3-Dichloropropene	0.52	U	2.0	0.52	ug/L			11/02/23 20:20	2
Cyclohexane	0.56	U	2.0	0.56	ug/L			11/02/23 20:20	2
Dibromochloromethane	0.78	U	2.0	0.78	ug/L			11/02/23 20:20	2
Dichlorodifluoromethane	0.72	U	2.0	0.72	ug/L			11/02/23 20:20	2
Ethylbenzene	0.40	U	2.0	0.40	ug/L			11/02/23 20:20	2
Isopropylbenzene	0.52	U	2.0	0.52	ug/L			11/02/23 20:20	2
m,p-Xylenes	0.98	U	2.0	0.98	ug/L			11/02/23 20:20	2
Methyl acetate	6.4	U J3	10	6.4	ug/L			11/02/23 20:20	2
Methyl tert-butyl ether	1.6	U	10	1.6	ug/L			11/02/23 20:20	2
Methylene Chloride	6.4	U	10	6.4	ug/L			11/02/23 20:20	2
o-Xylene	0.52	U	2.0	0.52	ug/L			11/02/23 20:20	2
Styrene	0.54	U	2.0	0.54	ug/L			11/02/23 20:20	2
Tetrachloroethene	**2.7**		2.0	0.70	ug/L			11/02/23 20:20	2
Toluene	0.50	U	2.0	0.50	ug/L			11/02/23 20:20	2
trans-1,2-Dichloroethene	0.68	U	2.0	0.68	ug/L			11/02/23 20:20	2
trans-1,3-Dichloropropene	0.46	U	2.0	0.46	ug/L			11/02/23 20:20	2
Trichloroethene	**0.65**	**I**	2.0	0.40	ug/L			11/02/23 20:20	2
Trichlorofluoromethane	0.66	U	2.0	0.66	ug/L			11/02/23 20:20	2
Vinyl chloride	**19**		2.0	0.80	ug/L			11/02/23 20:20	2
Xylenes, Total	0.46	U	2.0	0.46	ug/L			11/02/23 20:20	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*60 - 124*		*11/02/23 20:20*	*2*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*11/02/23 20:20*	*2*
Dibromofluoromethane (Surr)	*89*		*70 - 130*		*11/02/23 20:20*	*2*
Toluene-d8 (Surr)	*104*		*70 - 130*		*11/02/23 20:20*	*2*

Client Sample ID: LC34-DPT1017-038.0-20231026

Lab Sample ID: 670-29412-18

Date Collected: 10/26/23 10:10

Matrix: Water

Date Received: 10/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			11/02/23 16:24	1
1,1,2,2-Tetrachloroethane	0.40	U J3	1.0	0.40	ug/L			11/02/23 16:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			11/02/23 16:24	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-29412-1

Client Sample ID: LC34-DPT1017-038.0-20231026
Date Collected: 10/26/23 10:10
Date Received: 10/27/23 08:00

Lab Sample ID: 670-29412-18
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			11/02/23 16:24	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			11/02/23 16:24	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			11/02/23 16:24	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			11/02/23 16:24	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			11/02/23 16:24	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			11/02/23 16:24	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/02/23 16:24	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			11/02/23 16:24	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			11/02/23 16:24	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/02/23 16:24	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/02/23 16:24	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			11/02/23 16:24	1
2-Hexanone	3.2	U J3	10	3.2	ug/L			11/02/23 16:24	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			11/02/23 16:24	1
Acetone	3.7	U J3	10	3.7	ug/L			11/02/23 16:24	1
Benzene	0.27	U	1.0	0.27	ug/L			11/02/23 16:24	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			11/02/23 16:24	1
Bromoform	0.59	U J3	1.0	0.59	ug/L			11/02/23 16:24	1
Bromomethane	3.7	U	5.0	3.7	ug/L			11/02/23 16:24	1
Carbon disulfide	**0.50**	**I**	2.0	0.43	ug/L			11/02/23 16:24	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			11/02/23 16:24	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			11/02/23 16:24	1
Chloroethane	4.6	U	5.0	4.6	ug/L			11/02/23 16:24	1
Chloroform	0.27	U	1.0	0.27	ug/L			11/02/23 16:24	1
Chloromethane	0.54	U	1.0	0.54	ug/L			11/02/23 16:24	1
cis-1,2-Dichloroethene	**1.6**		1.0	0.25	ug/L			11/02/23 16:24	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			11/02/23 16:24	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			11/02/23 16:24	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			11/02/23 16:24	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			11/02/23 16:24	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			11/02/23 16:24	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			11/02/23 16:24	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			11/02/23 16:24	1
Methyl acetate	3.2	U J3	5.0	3.2	ug/L			11/02/23 16:24	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			11/02/23 16:24	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			11/02/23 16:24	1
o-Xylene	0.26	U	1.0	0.26	ug/L			11/02/23 16:24	1
Styrene	0.27	U	1.0	0.27	ug/L			11/02/23 16:24	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			11/02/23 16:24	1
Toluene	0.25	U	1.0	0.25	ug/L			11/02/23 16:24	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			11/02/23 16:24	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			11/02/23 16:24	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			11/02/23 16:24	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			11/02/23 16:24	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			11/02/23 16:24	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/02/23 16:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*60 - 124*		*11/02/23 16:24*	*1*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*11/02/23 16:24*	*1*

Client Sample ID: LC34-DPT1017-038.0-20231026

Lab Sample ID: 670-29412-18

Date Collected: 10/26/23 10:10
Matrix: Water
Date Received: 10/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*94*		*70 - 130*		*11/02/23 16:24*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*11/02/23 16:24*	*1*

Client Sample ID: LC34-DPT1018-008.0-20231026

Lab Sample ID: 670-29412-19

Date Collected: 10/26/23 10:45
Matrix: Water
Date Received: 10/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			11/02/23 16:48	1
1,1,2,2-Tetrachloroethane	0.40	U J3	1.0	0.40	ug/L			11/02/23 16:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			11/02/23 16:48	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			11/02/23 16:48	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			11/02/23 16:48	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			11/02/23 16:48	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			11/02/23 16:48	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			11/02/23 16:48	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			11/02/23 16:48	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/02/23 16:48	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			11/02/23 16:48	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			11/02/23 16:48	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/02/23 16:48	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/02/23 16:48	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			11/02/23 16:48	1
2-Hexanone	3.2	U J3	10	3.2	ug/L			11/02/23 16:48	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			11/02/23 16:48	1
Acetone	3.7	U J3	10	3.7	ug/L			11/02/23 16:48	1
Benzene	0.27	U	1.0	0.27	ug/L			11/02/23 16:48	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			11/02/23 16:48	1
Bromoform	0.59	U J3	1.0	0.59	ug/L			11/02/23 16:48	1
Bromomethane	3.7	U	5.0	3.7	ug/L			11/02/23 16:48	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			11/02/23 16:48	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			11/02/23 16:48	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			11/02/23 16:48	1
Chloroethane	4.6	U	5.0	4.6	ug/L			11/02/23 16:48	1
Chloroform	0.27	U	1.0	0.27	ug/L			11/02/23 16:48	1
Chloromethane	0.54	U	1.0	0.54	ug/L			11/02/23 16:48	1
cis-1,2-Dichloroethene	**4.9**		1.0	0.25	ug/L			11/02/23 16:48	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			11/02/23 16:48	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			11/02/23 16:48	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			11/02/23 16:48	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			11/02/23 16:48	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			11/02/23 16:48	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			11/02/23 16:48	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			11/02/23 16:48	1
Methyl acetate	3.2	U J3	5.0	3.2	ug/L			11/02/23 16:48	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			11/02/23 16:48	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			11/02/23 16:48	1
o-Xylene	0.26	U	1.0	0.26	ug/L			11/02/23 16:48	1

Client Sample ID: LC34-DPT1018-008.0-20231026
Lab Sample ID: 670-29412-19
Date Collected: 10/26/23 10:45
Matrix: Water
Date Received: 10/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.27	U	1.0	0.27	ug/L			11/02/23 16:48	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			11/02/23 16:48	1
Toluene	0.25	U	1.0	0.25	ug/L			11/02/23 16:48	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			11/02/23 16:48	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			11/02/23 16:48	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			11/02/23 16:48	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			11/02/23 16:48	1
Vinyl chloride	**22**		1.0	0.40	ug/L			11/02/23 16:48	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/02/23 16:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*		*11/02/23 16:48*	*1*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*11/02/23 16:48*	*1*
Dibromofluoromethane (Surr)	*91*		*70 - 130*		*11/02/23 16:48*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*11/02/23 16:48*	*1*

Client Sample ID: LC34-DPT1018-013.0-20231026
Lab Sample ID: 670-29412-20
Date Collected: 10/26/23 11:00
Matrix: Water
Date Received: 10/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			11/02/23 17:11	1
1,1,2,2-Tetrachloroethane	0.40	U J3	1.0	0.40	ug/L			11/02/23 17:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			11/02/23 17:11	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			11/02/23 17:11	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			11/02/23 17:11	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			11/02/23 17:11	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			11/02/23 17:11	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			11/02/23 17:11	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			11/02/23 17:11	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/02/23 17:11	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			11/02/23 17:11	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			11/02/23 17:11	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/02/23 17:11	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/02/23 17:11	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			11/02/23 17:11	1
2-Hexanone	3.2	U J3	10	3.2	ug/L			11/02/23 17:11	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			11/02/23 17:11	1
Acetone	**5.1**	**I J3**	10	3.7	ug/L			11/02/23 17:11	1
Benzene	0.27	U	1.0	0.27	ug/L			11/02/23 17:11	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			11/02/23 17:11	1
Bromoform	0.59	U J3	1.0	0.59	ug/L			11/02/23 17:11	1
Bromomethane	3.7	U	5.0	3.7	ug/L			11/02/23 17:11	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			11/02/23 17:11	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			11/02/23 17:11	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			11/02/23 17:11	1
Chloroethane	4.6	U	5.0	4.6	ug/L			11/02/23 17:11	1
Chloroform	0.27	U	1.0	0.27	ug/L			11/02/23 17:11	1
Chloromethane	0.54	U	1.0	0.54	ug/L			11/02/23 17:11	1

Client Sample ID: LC34-DPT1018-013.0-20231026

Lab Sample ID: 670-29412-20

Date Collected: 10/26/23 11:00

Matrix: Water

Date Received: 10/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**25**		1.0	0.25	ug/L			11/02/23 17:11	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			11/02/23 17:11	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			11/02/23 17:11	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			11/02/23 17:11	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			11/02/23 17:11	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			11/02/23 17:11	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			11/02/23 17:11	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			11/02/23 17:11	1
Methyl acetate	3.2	U J3	5.0	3.2	ug/L			11/02/23 17:11	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			11/02/23 17:11	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			11/02/23 17:11	1
o-Xylene	0.26	U	1.0	0.26	ug/L			11/02/23 17:11	1
Styrene	0.27	U	1.0	0.27	ug/L			11/02/23 17:11	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			11/02/23 17:11	1
Toluene	0.25	U	1.0	0.25	ug/L			11/02/23 17:11	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			11/02/23 17:11	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			11/02/23 17:11	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			11/02/23 17:11	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			11/02/23 17:11	1
Vinyl chloride	**60**		1.0	0.40	ug/L			11/02/23 17:11	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/02/23 17:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*84*		*60 - 124*		*11/02/23 17:11*	*1*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*		*11/02/23 17:11*	*1*
Dibromofluoromethane (Surr)	*84*		*70 - 130*		*11/02/23 17:11*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*11/02/23 17:11*	*1*

Client Sample ID: LC34-DPT1018- 018.0-20231026

Lab Sample ID: 670-29412-21

Date Collected: 10/26/23 11:15

Matrix: Water

Date Received: 10/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.42	U	2.0	0.42	ug/L			11/02/23 20:44	2
1,1,2,2-Tetrachloroethane	0.80	U J3	2.0	0.80	ug/L			11/02/23 20:44	2
1,1,2-Trichloro-1,2,2-trifluoroethane	0.46	U	2.0	0.46	ug/L			11/02/23 20:44	2
1,1,2-Trichloroethane	0.64	U	2.0	0.64	ug/L			11/02/23 20:44	2
1,1-Dichloroethane	0.66	U	2.0	0.66	ug/L			11/02/23 20:44	2
1,1-Dichloroethene	0.66	U	2.0	0.66	ug/L			11/02/23 20:44	2
1,2,4-Trichlorobenzene	1.1	U	10	1.1	ug/L			11/02/23 20:44	2
1,2-Dibromo-3-Chloropropane	3.6	U	10	3.6	ug/L			11/02/23 20:44	2
1,2-Dibromoethane (EDB)	0.66	U	2.0	0.66	ug/L			11/02/23 20:44	2
1,2-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			11/02/23 20:44	2
1,2-Dichloroethane	0.50	U	2.0	0.50	ug/L			11/02/23 20:44	2
1,2-Dichloropropane	0.44	U	2.0	0.44	ug/L			11/02/23 20:44	2
1,3-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			11/02/23 20:44	2
1,4-Dichlorobenzene	0.62	U	2.0	0.62	ug/L			11/02/23 20:44	2
2-Butanone (MEK)	13	U J3	20	13	ug/L			11/02/23 20:44	2
2-Hexanone	6.4	U J3	20	6.4	ug/L			11/02/23 20:44	2

Client Sample ID: LC34-DPT1018- 018.0-20231026

Lab Sample ID: 670-29412-21

Date Collected: 10/26/23 11:15

Matrix: Water

Date Received: 10/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone	5.4	U J3	20	5.4	ug/L			11/02/23 20:44	2
Acetone	7.4	U J3	20	7.4	ug/L			11/02/23 20:44	2
Benzene	0.54	U	2.0	0.54	ug/L			11/02/23 20:44	2
Bromodichloromethane	0.50	U	2.0	0.50	ug/L			11/02/23 20:44	2
Bromoform	1.2	U J3	2.0	1.2	ug/L			11/02/23 20:44	2
Bromomethane	7.4	U	10	7.4	ug/L			11/02/23 20:44	2
Carbon disulfide	0.86	U	4.0	0.86	ug/L			11/02/23 20:44	2
Carbon tetrachloride	0.60	U	2.0	0.60	ug/L			11/02/23 20:44	2
Chlorobenzene	0.30	U	2.0	0.30	ug/L			11/02/23 20:44	2
Chloroethane	9.2	U	10	9.2	ug/L			11/02/23 20:44	2
Chloroform	0.54	U	2.0	0.54	ug/L			11/02/23 20:44	2
Chloromethane	1.1	U	2.0	1.1	ug/L			11/02/23 20:44	2
cis-1,2-Dichloroethene	**1.7**	**I**	2.0	0.50	ug/L			11/02/23 20:44	2
cis-1,3-Dichloropropene	0.52	U	2.0	0.52	ug/L			11/02/23 20:44	2
Cyclohexane	0.56	U	2.0	0.56	ug/L			11/02/23 20:44	2
Dibromochloromethane	0.78	U	2.0	0.78	ug/L			11/02/23 20:44	2
Dichlorodifluoromethane	0.72	U	2.0	0.72	ug/L			11/02/23 20:44	2
Ethylbenzene	0.40	U	2.0	0.40	ug/L			11/02/23 20:44	2
Isopropylbenzene	0.52	U	2.0	0.52	ug/L			11/02/23 20:44	2
m,p-Xylenes	0.98	U	2.0	0.98	ug/L			11/02/23 20:44	2
Methyl acetate	6.4	U J3	10	6.4	ug/L			11/02/23 20:44	2
Methyl tert-butyl ether	1.6	U	10	1.6	ug/L			11/02/23 20:44	2
Methylene Chloride	6.4	U	10	6.4	ug/L			11/02/23 20:44	2
o-Xylene	0.52	U	2.0	0.52	ug/L			11/02/23 20:44	2
Styrene	0.54	U	2.0	0.54	ug/L			11/02/23 20:44	2
Tetrachloroethene	0.70	U	2.0	0.70	ug/L			11/02/23 20:44	2
Toluene	0.50	U	2.0	0.50	ug/L			11/02/23 20:44	2
trans-1,2-Dichloroethene	0.68	U	2.0	0.68	ug/L			11/02/23 20:44	2
trans-1,3-Dichloropropene	0.46	U	2.0	0.46	ug/L			11/02/23 20:44	2
Trichloroethene	0.40	U	2.0	0.40	ug/L			11/02/23 20:44	2
Trichlorofluoromethane	0.66	U	2.0	0.66	ug/L			11/02/23 20:44	2
Vinyl chloride	**1.2**	**I**	2.0	0.80	ug/L			11/02/23 20:44	2
Xylenes, Total	0.46	U	2.0	0.46	ug/L			11/02/23 20:44	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*		*11/02/23 20:44*	*2*
4-Bromofluorobenzene (Surr)	*77*		*70 - 130*		*11/02/23 20:44*	*2*
Dibromofluoromethane (Surr)	*90*		*70 - 130*		*11/02/23 20:44*	*2*
Toluene-d8 (Surr)	*115*		*70 - 130*		*11/02/23 20:44*	*2*

Client Sample ID: LC34-DPT1018-025.0-20231026

Lab Sample ID: 670-29412-22

Date Collected: 10/26/23 11:30

Matrix: Water

Date Received: 10/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			11/02/23 17:35	1
1,1,2,2-Tetrachloroethane	0.40	U J3	1.0	0.40	ug/L			11/02/23 17:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			11/02/23 17:35	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			11/02/23 17:35	1

Client Sample ID: LC34-DPT1018-025.0-20231026
Date Collected: 10/26/23 11:30
Date Received: 10/27/23 08:00

Lab Sample ID: 670-29412-22
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			11/02/23 17:35	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			11/02/23 17:35	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			11/02/23 17:35	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			11/02/23 17:35	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			11/02/23 17:35	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/02/23 17:35	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			11/02/23 17:35	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			11/02/23 17:35	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/02/23 17:35	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/02/23 17:35	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			11/02/23 17:35	1
2-Hexanone	3.2	U J3	10	3.2	ug/L			11/02/23 17:35	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			11/02/23 17:35	1
Acetone	**7.4**	**I J3**	10	3.7	ug/L			11/02/23 17:35	1
Benzene	0.27	U	1.0	0.27	ug/L			11/02/23 17:35	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			11/02/23 17:35	1
Bromoform	0.59	U J3	1.0	0.59	ug/L			11/02/23 17:35	1
Bromomethane	3.7	U	5.0	3.7	ug/L			11/02/23 17:35	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			11/02/23 17:35	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			11/02/23 17:35	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			11/02/23 17:35	1
Chloroethane	4.6	U	5.0	4.6	ug/L			11/02/23 17:35	1
Chloroform	0.27	U	1.0	0.27	ug/L			11/02/23 17:35	1
Chloromethane	0.54	U	1.0	0.54	ug/L			11/02/23 17:35	1
cis-1,2-Dichloroethene	**4.6**		1.0	0.25	ug/L			11/02/23 17:35	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			11/02/23 17:35	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			11/02/23 17:35	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			11/02/23 17:35	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			11/02/23 17:35	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			11/02/23 17:35	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			11/02/23 17:35	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			11/02/23 17:35	1
Methyl acetate	3.2	U J3	5.0	3.2	ug/L			11/02/23 17:35	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			11/02/23 17:35	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			11/02/23 17:35	1
o-Xylene	0.26	U	1.0	0.26	ug/L			11/02/23 17:35	1
Styrene	0.27	U	1.0	0.27	ug/L			11/02/23 17:35	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			11/02/23 17:35	1
Toluene	0.25	U	1.0	0.25	ug/L			11/02/23 17:35	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			11/02/23 17:35	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			11/02/23 17:35	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			11/02/23 17:35	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			11/02/23 17:35	1
Vinyl chloride	**61**		1.0	0.40	ug/L			11/02/23 17:35	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/02/23 17:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 124*		*11/02/23 17:35*	*1*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*		*11/02/23 17:35*	*1*
Dibromofluoromethane (Surr)	*94*		*70 - 130*		*11/02/23 17:35*	*1*

Client Sample ID: LC34-DPT1018-025.0-20231026

Lab Sample ID: 670-29412-22

Date Collected: 10/26/23 11:30

Matrix: Water

Date Received: 10/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*70 - 130*		*11/02/23 17:35*	*1*

Client Sample ID: LC34-DPT1018-034.0-20231026

Lab Sample ID: 670-29412-23

Date Collected: 10/26/23 11:45

Matrix: Water

Date Received: 10/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			11/02/23 17:58	1
1,1,2,2-Tetrachloroethane	0.40	U J3	1.0	0.40	ug/L			11/02/23 17:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			11/02/23 17:58	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			11/02/23 17:58	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			11/02/23 17:58	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			11/02/23 17:58	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			11/02/23 17:58	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			11/02/23 17:58	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			11/02/23 17:58	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/02/23 17:58	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			11/02/23 17:58	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			11/02/23 17:58	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/02/23 17:58	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/02/23 17:58	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			11/02/23 17:58	1
2-Hexanone	3.2	U J3	10	3.2	ug/L			11/02/23 17:58	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			11/02/23 17:58	1
Acetone	3.7	U J3	10	3.7	ug/L			11/02/23 17:58	1
Benzene	0.27	U	1.0	0.27	ug/L			11/02/23 17:58	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			11/02/23 17:58	1
Bromoform	0.59	U J3	1.0	0.59	ug/L			11/02/23 17:58	1
Bromomethane	3.7	U	5.0	3.7	ug/L			11/02/23 17:58	1
Carbon disulfide	**0.82**	**I**	2.0	0.43	ug/L			11/02/23 17:58	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			11/02/23 17:58	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			11/02/23 17:58	1
Chloroethane	4.6	U	5.0	4.6	ug/L			11/02/23 17:58	1
Chloroform	0.27	U	1.0	0.27	ug/L			11/02/23 17:58	1
Chloromethane	0.54	U	1.0	0.54	ug/L			11/02/23 17:58	1
cis-1,2-Dichloroethene	**3.1**		1.0	0.25	ug/L			11/02/23 17:58	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			11/02/23 17:58	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			11/02/23 17:58	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			11/02/23 17:58	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			11/02/23 17:58	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			11/02/23 17:58	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			11/02/23 17:58	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			11/02/23 17:58	1
Methyl acetate	3.2	U J3	5.0	3.2	ug/L			11/02/23 17:58	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			11/02/23 17:58	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			11/02/23 17:58	1
o-Xylene	0.26	U	1.0	0.26	ug/L			11/02/23 17:58	1
Styrene	0.27	U	1.0	0.27	ug/L			11/02/23 17:58	1

Client Sample ID: LC34-DPT1018-034.0-20231026

Lab Sample ID: 670-29412-23

Date Collected: 10/26/23 11:45

Matrix: Water

Date Received: 10/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			11/02/23 17:58	1
Toluene	0.25	U	1.0	0.25	ug/L			11/02/23 17:58	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			11/02/23 17:58	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			11/02/23 17:58	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			11/02/23 17:58	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			11/02/23 17:58	1
Vinyl chloride	**11**		1.0	0.40	ug/L			11/02/23 17:58	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/02/23 17:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*83*		*60 - 124*		*11/02/23 17:58*	*1*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*11/02/23 17:58*	*1*
Dibromofluoromethane (Surr)	*83*		*70 - 130*		*11/02/23 17:58*	*1*
Toluene-d8 (Surr)	*115*		*70 - 130*		*11/02/23 17:58*	*1*

Client Sample ID: LC34-DPT1018-038.0-20231026

Lab Sample ID: 670-29412-24

Date Collected: 10/26/23 12:10

Matrix: Water

Date Received: 10/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			11/02/23 18:22	1
1,1,2,2-Tetrachloroethane	0.40	U J3	1.0	0.40	ug/L			11/02/23 18:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			11/02/23 18:22	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			11/02/23 18:22	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			11/02/23 18:22	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			11/02/23 18:22	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			11/02/23 18:22	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			11/02/23 18:22	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			11/02/23 18:22	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/02/23 18:22	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			11/02/23 18:22	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			11/02/23 18:22	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/02/23 18:22	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/02/23 18:22	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			11/02/23 18:22	1
2-Hexanone	3.2	U J3	10	3.2	ug/L			11/02/23 18:22	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			11/02/23 18:22	1
Acetone	**6.5**	**I J3**	10	3.7	ug/L			11/02/23 18:22	1
Benzene	0.27	U	1.0	0.27	ug/L			11/02/23 18:22	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			11/02/23 18:22	1
Bromoform	0.59	U J3	1.0	0.59	ug/L			11/02/23 18:22	1
Bromomethane	3.7	U	5.0	3.7	ug/L			11/02/23 18:22	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			11/02/23 18:22	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			11/02/23 18:22	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			11/02/23 18:22	1
Chloroethane	4.6	U	5.0	4.6	ug/L			11/02/23 18:22	1
Chloroform	0.27	U	1.0	0.27	ug/L			11/02/23 18:22	1
Chloromethane	0.54	U	1.0	0.54	ug/L			11/02/23 18:22	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			11/02/23 18:22	1

Client Sample ID: LC34-DPT1018-038.0-20231026

Lab Sample ID: 670-29412-24

Date Collected: 10/26/23 12:10
Matrix: Water
Date Received: 10/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			11/02/23 18:22	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			11/02/23 18:22	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			11/02/23 18:22	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			11/02/23 18:22	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			11/02/23 18:22	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			11/02/23 18:22	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			11/02/23 18:22	1
Methyl acetate	3.2	U J3	5.0	3.2	ug/L			11/02/23 18:22	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			11/02/23 18:22	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			11/02/23 18:22	1
o-Xylene	0.26	U	1.0	0.26	ug/L			11/02/23 18:22	1
Styrene	0.27	U	1.0	0.27	ug/L			11/02/23 18:22	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			11/02/23 18:22	1
Toluene	0.25	U	1.0	0.25	ug/L			11/02/23 18:22	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			11/02/23 18:22	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			11/02/23 18:22	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			11/02/23 18:22	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			11/02/23 18:22	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			11/02/23 18:22	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/02/23 18:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*60 - 124*		*11/02/23 18:22*	*1*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*11/02/23 18:22*	*1*
Dibromofluoromethane (Surr)	*89*		*70 - 130*		*11/02/23 18:22*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*11/02/23 18:22*	*1*

Client Sample ID: LC34-DPT0984-043.0-20231026

Lab Sample ID: 670-29412-25

Date Collected: 10/26/23 13:05
Matrix: Water
Date Received: 10/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			11/02/23 18:46	1
1,1,2,2-Tetrachloroethane	0.40	U J3	1.0	0.40	ug/L			11/02/23 18:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			11/02/23 18:46	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			11/02/23 18:46	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			11/02/23 18:46	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			11/02/23 18:46	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			11/02/23 18:46	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			11/02/23 18:46	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			11/02/23 18:46	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/02/23 18:46	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			11/02/23 18:46	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			11/02/23 18:46	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/02/23 18:46	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/02/23 18:46	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			11/02/23 18:46	1
2-Hexanone	3.2	U J3	10	3.2	ug/L			11/02/23 18:46	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			11/02/23 18:46	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-29412-1

Client Sample ID: LC34-DPT0984-043.0-20231026

Lab Sample ID: 670-29412-25

Date Collected: 10/26/23 13:05
Matrix: Water
Date Received: 10/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	3.7	U J3	10	3.7	ug/L			11/02/23 18:46	1
Benzene	0.27	U	1.0	0.27	ug/L			11/02/23 18:46	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			11/02/23 18:46	1
Bromoform	0.59	U J3	1.0	0.59	ug/L			11/02/23 18:46	1
Bromomethane	3.7	U	5.0	3.7	ug/L			11/02/23 18:46	1
Carbon disulfide	**0.49**	**I**	2.0	0.43	ug/L			11/02/23 18:46	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			11/02/23 18:46	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			11/02/23 18:46	1
Chloroethane	4.6	U	5.0	4.6	ug/L			11/02/23 18:46	1
Chloroform	0.27	U	1.0	0.27	ug/L			11/02/23 18:46	1
Chloromethane	0.54	U	1.0	0.54	ug/L			11/02/23 18:46	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			11/02/23 18:46	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			11/02/23 18:46	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			11/02/23 18:46	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			11/02/23 18:46	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			11/02/23 18:46	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			11/02/23 18:46	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			11/02/23 18:46	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			11/02/23 18:46	1
Methyl acetate	3.2	U J3	5.0	3.2	ug/L			11/02/23 18:46	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			11/02/23 18:46	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			11/02/23 18:46	1
o-Xylene	0.26	U	1.0	0.26	ug/L			11/02/23 18:46	1
Styrene	0.27	U	1.0	0.27	ug/L			11/02/23 18:46	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			11/02/23 18:46	1
Toluene	0.25	U	1.0	0.25	ug/L			11/02/23 18:46	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			11/02/23 18:46	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			11/02/23 18:46	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			11/02/23 18:46	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			11/02/23 18:46	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			11/02/23 18:46	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/02/23 18:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*		*11/02/23 18:46*	*1*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*		*11/02/23 18:46*	*1*
Dibromofluoromethane (Surr)	*93*		*70 - 130*		*11/02/23 18:46*	*1*
Toluene-d8 (Surr)	*105*		*70 - 130*		*11/02/23 18:46*	*1*

Client Sample ID: LC34-DPT0984-038.0-20231026

Lab Sample ID: 670-29412-26

Date Collected: 10/26/23 13:20
Matrix: Water
Date Received: 10/27/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			11/02/23 19:09	1
1,1,2,2-Tetrachloroethane	0.40	U J3	1.0	0.40	ug/L			11/02/23 19:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			11/02/23 19:09	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			11/02/23 19:09	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			11/02/23 19:09	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-29412-1

Client Sample ID: LC34-DPT0984-038.0-20231026
Date Collected: 10/26/23 13:20
Date Received: 10/27/23 08:00

Lab Sample ID: 670-29412-26
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			11/02/23 19:09	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			11/02/23 19:09	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			11/02/23 19:09	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			11/02/23 19:09	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/02/23 19:09	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			11/02/23 19:09	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			11/02/23 19:09	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/02/23 19:09	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/02/23 19:09	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			11/02/23 19:09	1
2-Hexanone	3.2	U J3	10	3.2	ug/L			11/02/23 19:09	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			11/02/23 19:09	1
Acetone	3.7	U J3	10	3.7	ug/L			11/02/23 19:09	1
Benzene	0.27	U	1.0	0.27	ug/L			11/02/23 19:09	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			11/02/23 19:09	1
Bromoform	0.59	U J3	1.0	0.59	ug/L			11/02/23 19:09	1
Bromomethane	3.7	U	5.0	3.7	ug/L			11/02/23 19:09	1
Carbon disulfide	**0.59**	**I**	2.0	0.43	ug/L			11/02/23 19:09	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			11/02/23 19:09	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			11/02/23 19:09	1
Chloroethane	4.6	U	5.0	4.6	ug/L			11/02/23 19:09	1
Chloroform	0.27	U	1.0	0.27	ug/L			11/02/23 19:09	1
Chloromethane	0.54	U	1.0	0.54	ug/L			11/02/23 19:09	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			11/02/23 19:09	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			11/02/23 19:09	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			11/02/23 19:09	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			11/02/23 19:09	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			11/02/23 19:09	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			11/02/23 19:09	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			11/02/23 19:09	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			11/02/23 19:09	1
Methyl acetate	3.2	U J3	5.0	3.2	ug/L			11/02/23 19:09	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			11/02/23 19:09	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			11/02/23 19:09	1
o-Xylene	0.26	U	1.0	0.26	ug/L			11/02/23 19:09	1
Styrene	0.27	U	1.0	0.27	ug/L			11/02/23 19:09	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			11/02/23 19:09	1
Toluene	0.25	U	1.0	0.25	ug/L			11/02/23 19:09	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			11/02/23 19:09	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			11/02/23 19:09	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			11/02/23 19:09	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			11/02/23 19:09	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			11/02/23 19:09	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/02/23 19:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*60 - 124*		*11/02/23 19:09*	*1*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*11/02/23 19:09*	*1*
Dibromofluoromethane (Surr)	*91*		*70 - 130*		*11/02/23 19:09*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*11/02/23 19:09*	*1*

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-29412-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(60-124)	(70-130)	(70-130)	(70-130)
670-29412-1	LC34-DPT1015-008.0-20231025	89	100	91	101
670-29412-2	LC34-DPT1015-013.0-20231025	94	102	94	109
670-29412-3	LC34-DPT1015-018.0-20231025	94	92	97	108
670-29412-4	LC34-DPT1015-025.0-20231025	100	95	90	99
670-29412-5	LC34-DPT1015-034.0-20231025	90	94	94	116
670-29412-6	LC34-DPT1015-038.0-20231025	88	97	86	90
670-29412-7	LC34-DPT1016-008.0-20231025	94	95	93	94
670-29412-8	LC34-DPT1016-013.0-20231025	95	96	93	101
670-29412-9	LC34-DPT1016-018.0-20231025	90	97	91	106
670-29412-10	LC34-DPT1016-025.0-20231025	101	103	95	103
670-29412-11	LC34-DPT1016-034.0-20231026	99	96	93	95
670-29412-12	LC34-DPT1016-038.0-20231026	97	97	97	92
670-29412-13	LC34-DPT1017-008.0-20231026	94	95	92	101
670-29412-14	LC34-DPT1017-013.0-20231026	91	93	96	92
670-29412-15	LC34-DPT1017-018.0-20231026	102	91	94	100
670-29412-16	LC34-DPT1017-025.0-20231026	94	94	85	101
670-29412-17	LC34-DPT1017-034.0-20231026	90	95	89	104
670-29412-18	LC34-DPT1017-038.0-20231026	92	93	94	102
670-29412-19	LC34-DPT1018-008.0-20231026	95	92	91	101
670-29412-20	LC34-DPT1018-013.0-20231026	84	89	84	101
670-29412-21	LC34-DPT1018-018.0-20231026	94	77	90	115
670-29412-22	LC34-DPT1018-025.0-20231026	95	89	94	100
670-29412-23	LC34-DPT1018-034.0-20231026	83	92	83	115
670-29412-24	LC34-DPT1018-038.0-20231026	92	92	89	101
670-29412-25	LC34-DPT0984-043.0-20231026	94	89	93	105
670-29412-26	LC34-DPT0984-038.0-20231026	93	93	91	102
680-242160-C-14 MS	Matrix Spike	89	113	90	103
680-242160-C-14 MSD	Matrix Spike Duplicate	96	110	93	105
LCS 680-806030/4	Lab Control Sample	98	111	94	101
LCS 680-806240/3	Lab Control Sample	98	113	96	101
LCSD 680-806030/5	Lab Control Sample Dup	99	114	94	102

Surrogate Summary

Client: Tetra Tech, Inc.
Job ID: 670-29412-1
Project/Site: NASA KSC LC34 DPT

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Matrix: Water
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(60-124)	(70-130)	(70-130)	(70-130)
LCSD 680-806240/5	Lab Control Sample Dup	102	108	96	90
MB 680-806030/8	Method Blank	89	102	88	101
MB 680-806240/9	Method Blank	94	99	91	101

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 680-806030/8
Matrix: Water
Analysis Batch: 806030

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			11/02/23 14:04	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			11/02/23 14:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			11/02/23 14:04	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			11/02/23 14:04	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			11/02/23 14:04	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			11/02/23 14:04	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			11/02/23 14:04	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			11/02/23 14:04	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			11/02/23 14:04	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/02/23 14:04	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			11/02/23 14:04	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			11/02/23 14:04	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/02/23 14:04	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/02/23 14:04	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			11/02/23 14:04	1
2-Hexanone	3.2	U	10	3.2	ug/L			11/02/23 14:04	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			11/02/23 14:04	1
Acetone	3.7	U	10	3.7	ug/L			11/02/23 14:04	1
Benzene	0.27	U	1.0	0.27	ug/L			11/02/23 14:04	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			11/02/23 14:04	1
Bromoform	0.59	U	1.0	0.59	ug/L			11/02/23 14:04	1
Bromomethane	3.7	U	5.0	3.7	ug/L			11/02/23 14:04	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			11/02/23 14:04	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			11/02/23 14:04	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			11/02/23 14:04	1
Chloroethane	4.6	U	5.0	4.6	ug/L			11/02/23 14:04	1
Chloroform	0.27	U	1.0	0.27	ug/L			11/02/23 14:04	1
Chloromethane	0.54	U	1.0	0.54	ug/L			11/02/23 14:04	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			11/02/23 14:04	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			11/02/23 14:04	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			11/02/23 14:04	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			11/02/23 14:04	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			11/02/23 14:04	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			11/02/23 14:04	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			11/02/23 14:04	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			11/02/23 14:04	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			11/02/23 14:04	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			11/02/23 14:04	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			11/02/23 14:04	1
o-Xylene	0.26	U	1.0	0.26	ug/L			11/02/23 14:04	1
Styrene	0.27	U	1.0	0.27	ug/L			11/02/23 14:04	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			11/02/23 14:04	1
Toluene	0.25	U	1.0	0.25	ug/L			11/02/23 14:04	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			11/02/23 14:04	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			11/02/23 14:04	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			11/02/23 14:04	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			11/02/23 14:04	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			11/02/23 14:04	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-806030/8
Matrix: Water
Analysis Batch: 806030

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/02/23 14:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*60 - 124*		*11/02/23 14:04*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*11/02/23 14:04*	*1*
Dibromofluoromethane (Surr)	*88*		*70 - 130*		*11/02/23 14:04*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*11/02/23 14:04*	*1*

Lab Sample ID: LCS 680-806030/4
Matrix: Water
Analysis Batch: 806030

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	45.9		ug/L		92	70 - 130
1,1,2,2-Tetrachloroethane	50.0	65.8	J3	ug/L		132	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	51.3		ug/L		103	63 - 141
1,1,2-Trichloroethane	50.0	50.8		ug/L		102	70 - 130
1,1-Dichloroethane	50.0	51.2		ug/L		102	70 - 130
1,1-Dichloroethene	50.0	54.6		ug/L		109	70 - 130
1,2,4-Trichlorobenzene	50.0	54.3		ug/L		109	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	52.3		ug/L		105	70 - 130
1,2-Dibromoethane (EDB)	50.0	52.1		ug/L		104	70 - 130
1,2-Dichlorobenzene	50.0	53.4		ug/L		107	70 - 130
1,2-Dichloroethane	50.0	52.2		ug/L		104	70 - 130
1,2-Dichloropropane	50.0	48.9		ug/L		98	70 - 130
1,3-Dichlorobenzene	50.0	56.3		ug/L		113	70 - 130
1,4-Dichlorobenzene	50.0	55.4		ug/L		111	70 - 130
2-Butanone (MEK)	250	338	J3	ug/L		135	69 - 120
2-Hexanone	250	337	J3	ug/L		135	70 - 130
4-Methyl-2-pentanone	250	307	J3	ug/L		123	68 - 120
Acetone	250	366	J3	ug/L		147	67 - 120
Benzene	50.0	48.1		ug/L		96	70 - 130
Bromodichloromethane	50.0	48.0		ug/L		96	70 - 130
Bromoform	50.0	63.6		ug/L		127	69 - 129
Bromomethane	50.0	42.3		ug/L		85	28 - 192
Carbon disulfide	50.0	54.9		ug/L		110	70 - 130
Carbon tetrachloride	50.0	48.6		ug/L		97	70 - 130
Chlorobenzene	50.0	52.8		ug/L		106	70 - 130
Chloroethane	50.0	45.7		ug/L		91	31 - 213
Chloroform	50.0	49.6		ug/L		99	70 - 130
Chloromethane	50.0	48.2		ug/L		96	59 - 127
cis-1,2-Dichloroethene	50.0	53.2		ug/L		106	70 - 130
cis-1,3-Dichloropropene	50.0	48.1		ug/L		96	70 - 130
Cyclohexane	50.0	49.3		ug/L		99	23 - 175
Dibromochloromethane	50.0	48.0		ug/L		96	70 - 130
Dichlorodifluoromethane	50.0	48.2		ug/L		96	70 - 130
Ethylbenzene	50.0	53.2		ug/L		106	70 - 130
Isopropylbenzene	50.0	56.5		ug/L		113	70 - 130

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-806030/4
Matrix: Water
Analysis Batch: 806030

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
m,p-Xylenes	50.0	54.7		ug/L		109	70 - 130
Methyl acetate	100	134	J3	ug/L		134	67 - 120
Methyl tert-butyl ether	50.0	57.4		ug/L		115	70 - 130
Methylene Chloride	50.0	52.2		ug/L		104	70 - 130
o-Xylene	50.0	55.8		ug/L		112	70 - 130
Styrene	50.0	56.8		ug/L		114	70 - 130
Tetrachloroethene	50.0	50.6		ug/L		101	70 - 130
Toluene	50.0	48.1		ug/L		96	70 - 130
trans-1,2-Dichloroethene	50.0	55.2		ug/L		110	70 - 130
trans-1,3-Dichloropropene	50.0	46.6		ug/L		93	70 - 130
Trichloroethene	50.0	47.0		ug/L		94	70 - 130
Trichlorofluoromethane	50.0	37.7		ug/L		75	63 - 142
Vinyl chloride	50.0	45.1		ug/L		90	66 - 129
Xylenes, Total	100	111		ug/L		111	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 124*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*
Dibromofluoromethane (Surr)	*94*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 680-806030/5
Matrix: Water
Analysis Batch: 806030

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	50.0	45.0		ug/L		90	70 - 130	2	30
1,1,2,2-Tetrachloroethane	50.0	67.1	J3	ug/L		134	70 - 130	2	30
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	44.5		ug/L		89	63 - 141	14	30
1,1,2-Trichloroethane	50.0	51.5		ug/L		103	70 - 130	1	30
1,1-Dichloroethane	50.0	46.4		ug/L		93	70 - 130	10	30
1,1-Dichloroethene	50.0	47.6		ug/L		95	70 - 130	14	20
1,2,4-Trichlorobenzene	50.0	50.8		ug/L		102	70 - 130	7	30
1,2-Dibromo-3-Chloropropane	50.0	51.2		ug/L		102	70 - 130	2	30
1,2-Dibromoethane (EDB)	50.0	52.0		ug/L		104	70 - 130	0	30
1,2-Dichlorobenzene	50.0	53.5		ug/L		107	70 - 130	0	30
1,2-Dichloroethane	50.0	52.5		ug/L		105	70 - 130	0	50
1,2-Dichloropropane	50.0	48.9		ug/L		98	70 - 130	0	20
1,3-Dichlorobenzene	50.0	56.9		ug/L		114	70 - 130	1	30
1,4-Dichlorobenzene	50.0	55.4		ug/L		111	70 - 130	0	30
2-Butanone (MEK)	250	314	J3	ug/L		125	69 - 120	8	30
2-Hexanone	250	335	J3	ug/L		134	70 - 130	1	20
4-Methyl-2-pentanone	250	303	J3	ug/L		121	68 - 120	1	30
Acetone	250	325	J3	ug/L		130	67 - 120	12	30
Benzene	50.0	47.8		ug/L		96	70 - 130	1	30
Bromodichloromethane	50.0	48.7		ug/L		97	70 - 130	1	30
Bromoform	50.0	65.6	J3	ug/L		131	69 - 129	3	30
Bromomethane	50.0	41.3		ug/L		83	28 - 192	2	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-806030/5
Matrix: Water
Analysis Batch: 806030

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon disulfide	50.0	48.5		ug/L		97	70 - 130	13	30
Carbon tetrachloride	50.0	47.4		ug/L		95	70 - 130	2	30
Chlorobenzene	50.0	53.4		ug/L		107	70 - 130	1	30
Chloroethane	50.0	43.2		ug/L		86	31 - 213	6	30
Chloroform	50.0	48.8		ug/L		98	70 - 130	2	30
Chloromethane	50.0	46.6		ug/L		93	59 - 127	3	30
cis-1,2-Dichloroethene	50.0	49.6		ug/L		99	70 - 130	7	30
cis-1,3-Dichloropropene	50.0	48.2		ug/L		96	70 - 130	0	20
Cyclohexane	50.0	47.9		ug/L		96	23 - 175	3	30
Dibromochloromethane	50.0	48.9		ug/L		98	70 - 130	2	30
Dichlorodifluoromethane	50.0	46.6		ug/L		93	70 - 130	3	40
Ethylbenzene	50.0	53.1		ug/L		106	70 - 130	0	20
Isopropylbenzene	50.0	56.0		ug/L		112	70 - 130	1	30
m,p-Xylenes	50.0	54.0		ug/L		108	70 - 130	1	30
Methyl acetate	100	121	J3	ug/L		121	67 - 120	10	30
Methyl tert-butyl ether	50.0	52.5		ug/L		105	70 - 130	9	30
Methylene Chloride	50.0	48.5		ug/L		97	70 - 130	7	30
o-Xylene	50.0	55.1		ug/L		110	70 - 130	1	30
Styrene	50.0	55.4		ug/L		111	70 - 130	2	30
Tetrachloroethene	50.0	49.8		ug/L		100	70 - 130	2	30
Toluene	50.0	48.5		ug/L		97	70 - 130	1	30
trans-1,2-Dichloroethene	50.0	49.7		ug/L		99	70 - 130	11	30
trans-1,3-Dichloropropene	50.0	46.9		ug/L		94	70 - 130	1	30
Trichloroethene	50.0	47.2		ug/L		94	70 - 130	1	30
Trichlorofluoromethane	50.0	35.0		ug/L		70	63 - 142	7	30
Vinyl chloride	50.0	43.0		ug/L		86	66 - 129	5	30
Xylenes, Total	100	109		ug/L		109	70 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 124*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*
Dibromofluoromethane (Surr)	*94*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*

Lab Sample ID: MB 680-806240/9
Matrix: Water
Analysis Batch: 806240

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			11/03/23 13:12	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			11/03/23 13:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			11/03/23 13:12	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			11/03/23 13:12	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			11/03/23 13:12	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			11/03/23 13:12	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			11/03/23 13:12	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			11/03/23 13:12	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			11/03/23 13:12	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-806240/9
Matrix: Water
Analysis Batch: 806240

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/03/23 13:12	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			11/03/23 13:12	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			11/03/23 13:12	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/03/23 13:12	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/03/23 13:12	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			11/03/23 13:12	1
2-Hexanone	3.2	U	10	3.2	ug/L			11/03/23 13:12	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			11/03/23 13:12	1
Acetone	3.7	U	10	3.7	ug/L			11/03/23 13:12	1
Benzene	0.27	U	1.0	0.27	ug/L			11/03/23 13:12	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			11/03/23 13:12	1
Bromoform	0.59	U	1.0	0.59	ug/L			11/03/23 13:12	1
Bromomethane	3.7	U	5.0	3.7	ug/L			11/03/23 13:12	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			11/03/23 13:12	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			11/03/23 13:12	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			11/03/23 13:12	1
Chloroethane	4.6	U	5.0	4.6	ug/L			11/03/23 13:12	1
Chloroform	0.27	U	1.0	0.27	ug/L			11/03/23 13:12	1
Chloromethane	0.54	U	1.0	0.54	ug/L			11/03/23 13:12	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			11/03/23 13:12	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			11/03/23 13:12	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			11/03/23 13:12	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			11/03/23 13:12	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			11/03/23 13:12	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			11/03/23 13:12	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			11/03/23 13:12	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			11/03/23 13:12	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			11/03/23 13:12	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			11/03/23 13:12	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			11/03/23 13:12	1
o-Xylene	0.26	U	1.0	0.26	ug/L			11/03/23 13:12	1
Styrene	0.27	U	1.0	0.27	ug/L			11/03/23 13:12	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			11/03/23 13:12	1
Toluene	0.25	U	1.0	0.25	ug/L			11/03/23 13:12	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			11/03/23 13:12	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			11/03/23 13:12	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			11/03/23 13:12	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			11/03/23 13:12	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			11/03/23 13:12	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/03/23 13:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 124*		*11/03/23 13:12*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*11/03/23 13:12*	*1*
Dibromofluoromethane (Surr)	*91*		*70 - 130*		*11/03/23 13:12*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*11/03/23 13:12*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-806240/3
Matrix: Water
Analysis Batch: 806240

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	49.0		ug/L		98	70 - 130
1,1,2,2-Tetrachloroethane	50.0	57.2		ug/L		114	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	46.1		ug/L		92	63 - 141
1,1,2-Trichloroethane	50.0	46.9		ug/L		94	70 - 130
1,1-Dichloroethane	50.0	46.1		ug/L		92	70 - 130
1,1-Dichloroethene	50.0	49.2		ug/L		98	70 - 130
1,2,4-Trichlorobenzene	50.0	56.1		ug/L		112	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	43.7		ug/L		87	70 - 130
1,2-Dibromoethane (EDB)	50.0	46.1		ug/L		92	70 - 130
1,2-Dichlorobenzene	50.0	53.4		ug/L		107	70 - 130
1,2-Dichloroethane	50.0	51.2		ug/L		102	70 - 130
1,2-Dichloropropane	50.0	45.7		ug/L		91	70 - 130
1,3-Dichlorobenzene	50.0	56.2		ug/L		112	70 - 130
1,4-Dichlorobenzene	50.0	55.3		ug/L		111	70 - 130
2-Butanone (MEK)	250	247		ug/L		99	69 - 120
2-Hexanone	250	242		ug/L		97	70 - 130
4-Methyl-2-pentanone	250	232		ug/L		93	68 - 120
Acetone	250	229		ug/L		92	67 - 120
Benzene	50.0	50.5		ug/L		101	70 - 130
Bromodichloromethane	50.0	46.2		ug/L		92	70 - 130
Bromoform	50.0	58.7		ug/L		117	69 - 129
Bromomethane	50.0	38.4		ug/L		77	28 - 192
Carbon disulfide	50.0	49.7		ug/L		99	70 - 130
Carbon tetrachloride	50.0	52.4		ug/L		105	70 - 130
Chlorobenzene	50.0	52.7		ug/L		105	70 - 130
Chloroethane	50.0	39.9		ug/L		80	31 - 213
Chloroform	50.0	51.4		ug/L		103	70 - 130
Chloromethane	50.0	42.7		ug/L		85	59 - 127
cis-1,2-Dichloroethene	50.0	53.5		ug/L		107	70 - 130
cis-1,3-Dichloropropene	50.0	46.2		ug/L		92	70 - 130
Cyclohexane	50.0	53.7		ug/L		107	23 - 175
Dibromochloromethane	50.0	45.0		ug/L		90	70 - 130
Dichlorodifluoromethane	50.0	42.1		ug/L		84	70 - 130
Ethylbenzene	50.0	54.7		ug/L		109	70 - 130
Isopropylbenzene	50.0	57.7		ug/L		115	70 - 130
m,p-Xylenes	50.0	55.1		ug/L		110	70 - 130
Methyl acetate	100	91.3		ug/L		91	67 - 120
Methyl tert-butyl ether	50.0	50.1		ug/L		100	70 - 130
Methylene Chloride	50.0	45.8		ug/L		92	70 - 130
o-Xylene	50.0	55.4		ug/L		111	70 - 130
Styrene	50.0	55.9		ug/L		112	70 - 130
Tetrachloroethene	50.0	49.7		ug/L		99	70 - 130
Toluene	50.0	47.7		ug/L		95	70 - 130
trans-1,2-Dichloroethene	50.0	53.7		ug/L		107	70 - 130
trans-1,3-Dichloropropene	50.0	44.4		ug/L		89	70 - 130
Trichloroethene	50.0	46.7		ug/L		93	70 - 130
Trichlorofluoromethane	50.0	37.8		ug/L		76	63 - 142
Vinyl chloride	50.0	41.6		ug/L		83	66 - 129

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-806240/3
Matrix: Water
Analysis Batch: 806240

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Xylenes, Total			100	111		ug/L		111	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 124*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*
Dibromofluoromethane (Surr)	*96*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 680-806240/5
Matrix: Water
Analysis Batch: 806240

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane			50.0	45.1		ug/L		90	70 - 130	8	30
1,1,2,2-Tetrachloroethane			50.0	62.2		ug/L		124	70 - 130	8	30
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	42.7		ug/L		85	63 - 141	7	30
1,1,2-Trichloroethane			50.0	57.6		ug/L		115	70 - 130	20	30
1,1-Dichloroethane			50.0	46.4		ug/L		93	70 - 130	1	30
1,1-Dichloroethene			50.0	46.0		ug/L		92	70 - 130	7	20
1,2,4-Trichlorobenzene			50.0	52.5		ug/L		105	70 - 130	7	30
1,2-Dibromo-3-Chloropropane			50.0	47.9		ug/L		96	70 - 130	9	30
1,2-Dibromoethane (EDB)			50.0	58.6		ug/L		117	70 - 130	24	30
1,2-Dichlorobenzene			50.0	52.3		ug/L		105	70 - 130	2	30
1,2-Dichloroethane			50.0	53.0		ug/L		106	70 - 130	4	50
1,2-Dichloropropane			50.0	49.3		ug/L		99	70 - 130	8	20
1,3-Dichlorobenzene			50.0	55.3		ug/L		111	70 - 130	2	30
1,4-Dichlorobenzene			50.0	54.4		ug/L		109	70 - 130	2	30
2-Butanone (MEK)			250	282		ug/L		113	69 - 120	13	30
2-Hexanone			250	332	J3	ug/L		133	70 - 130	31	20
4-Methyl-2-pentanone			250	285		ug/L		114	68 - 120	21	30
Acetone			250	285		ug/L		114	67 - 120	22	30
Benzene			50.0	48.3		ug/L		97	70 - 130	4	30
Bromodichloromethane			50.0	50.0		ug/L		100	70 - 130	8	30
Bromoform			50.0	65.4	J3	ug/L		131	69 - 129	11	30
Bromomethane			50.0	38.9		ug/L		78	28 - 192	1	30
Carbon disulfide			50.0	47.5		ug/L		95	70 - 130	5	30
Carbon tetrachloride			50.0	51.4		ug/L		103	70 - 130	2	30
Chlorobenzene			50.0	52.9		ug/L		106	70 - 130	0	30
Chloroethane			50.0	38.5		ug/L		77	31 - 213	4	30
Chloroform			50.0	49.3		ug/L		99	70 - 130	4	30
Chloromethane			50.0	41.8		ug/L		84	59 - 127	2	30
cis-1,2-Dichloroethene			50.0	50.0		ug/L		100	70 - 130	7	30
cis-1,3-Dichloropropene			50.0	49.9		ug/L		100	70 - 130	8	20
Cyclohexane			50.0	48.3		ug/L		97	23 - 175	11	30
Dibromochloromethane			50.0	54.8		ug/L		110	70 - 130	20	30
Dichlorodifluoromethane			50.0	39.4		ug/L		79	70 - 130	7	40
Ethylbenzene			50.0	52.4		ug/L		105	70 - 130	4	20
Isopropylbenzene			50.0	55.2		ug/L		110	70 - 130	4	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-806240/5
Matrix: Water
Analysis Batch: 806240

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m,p-Xylenes	50.0	53.2		ug/L		106	70 - 130	3	30
Methyl acetate	100	111		ug/L		111	67 - 120	19	30
Methyl tert-butyl ether	50.0	51.9		ug/L		104	70 - 130	4	30
Methylene Chloride	50.0	46.9		ug/L		94	70 - 130	2	30
o-Xylene	50.0	55.3		ug/L		111	70 - 130	0	30
Styrene	50.0	56.2		ug/L		112	70 - 130	1	30
Tetrachloroethene	50.0	55.8		ug/L		112	70 - 130	12	30
Toluene	50.0	47.9		ug/L		96	70 - 130	1	30
trans-1,2-Dichloroethene	50.0	48.9		ug/L		98	70 - 130	9	30
trans-1,3-Dichloropropene	50.0	47.8		ug/L		96	70 - 130	7	30
Trichloroethene	50.0	46.2		ug/L		92	70 - 130	1	30
Trichlorofluoromethane	50.0	35.4		ug/L		71	63 - 142	7	30
Vinyl chloride	50.0	40.8		ug/L		82	66 - 129	2	30
Xylenes, Total	100	109		ug/L		109	70 - 130	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 124*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
Dibromofluoromethane (Surr)	*96*		*70 - 130*
Toluene-d8 (Surr)	*90*		*70 - 130*

Lab Sample ID: 680-242160-C-14 MS
Matrix: Water
Analysis Batch: 806240

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	2.1	U	500	473		ug/L		95	70 - 130
1,1,2,2-Tetrachloroethane	4.0	U	500	594		ug/L		119	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	2.3	U	500	529		ug/L		106	63 - 141
1,1,2-Trichloroethane	3.2	U	500	464		ug/L		93	70 - 130
1,1-Dichloroethane	3.3	U	500	463		ug/L		93	70 - 130
1,1-Dichloroethene	3.3	U	500	513		ug/L		103	70 - 130
1,2,4-Trichlorobenzene	5.3	U	500	539		ug/L		108	70 - 130
1,2-Dibromo-3-Chloropropane	18	U	500	420		ug/L		84	70 - 130
1,2-Dibromoethane (EDB)	3.3	U	500	457		ug/L		91	70 - 130
1,2-Dichlorobenzene	3.1	U	500	532		ug/L		106	70 - 130
1,2-Dichloroethane	2.5	U	500	476		ug/L		95	70 - 130
1,2-Dichloropropane	2.2	U	500	464		ug/L		93	70 - 130
1,3-Dichlorobenzene	3.1	U	500	546		ug/L		109	70 - 130
1,4-Dichlorobenzene	3.1	U	500	543		ug/L		109	70 - 130
2-Butanone (MEK)	64	U	2500	2200		ug/L		88	69 - 120
2-Hexanone	32	U J3	2500	2490		ug/L		100	70 - 130
4-Methyl-2-pentanone	27	U	2500	2330		ug/L		93	68 - 120
Acetone	37	U	2500	2170		ug/L		87	67 - 120
Benzene	2.7	U	500	478		ug/L		96	70 - 130
Bromodichloromethane	2.9	I	500	464		ug/L		92	70 - 130
Bromoform	5.9	U J3	500	589		ug/L		118	69 - 129
Bromomethane	37	U	500	237		ug/L		47	28 - 192

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 680-242160-C-14 MS
Matrix: Water
Analysis Batch: 806240

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Carbon disulfide	4.3	U	500	515		ug/L		103	70 - 130
Carbon tetrachloride	3.0	U	500	506		ug/L		101	70 - 130
Chlorobenzene	1.5	U	500	530		ug/L		106	70 - 130
Chloroethane	46	U	500	511		ug/L		102	31 - 213
Chloroform	2.7	U	500	471		ug/L		94	70 - 130
Chloromethane	5.4	U	500	380		ug/L		76	59 - 127
cis-1,2-Dichloroethene	2.5	U	500	488		ug/L		98	70 - 130
cis-1,3-Dichloropropene	2.6	U	500	457		ug/L		91	70 - 130
Cyclohexane	2.8	U	500	524		ug/L		105	23 - 175
Dibromochloromethane	6.0	I	500	457		ug/L		90	70 - 130
Dichlorodifluoromethane	3.6	U	500	403		ug/L		81	70 - 130
Ethylbenzene	2.0	U	500	547		ug/L		109	70 - 130
Isopropylbenzene	2.6	U	500	574		ug/L		115	70 - 130
m,p-Xylenes	4.9	U	500	552		ug/L		110	70 - 130
Methyl acetate	32	U	1000	865		ug/L		87	67 - 120
Methyl tert-butyl ether	8.1	U	500	455		ug/L		91	70 - 130
Methylene Chloride	32	U	500	457		ug/L		91	70 - 130
o-Xylene	2.6	U	500	558		ug/L		112	70 - 130
Styrene	2.7	U	500	556		ug/L		111	70 - 130
Tetrachloroethene	3.5	U	500	528		ug/L		106	70 - 130
Toluene	2.5	U	500	483		ug/L		97	70 - 130
trans-1,2-Dichloroethene	3.4	U	500	510		ug/L		102	70 - 130
trans-1,3-Dichloropropene	2.3	U	500	435		ug/L		87	70 - 130
Trichloroethene	2.0	U	500	485		ug/L		97	70 - 130
Trichlorofluoromethane	3.3	U	500	318		ug/L		64	63 - 142
Vinyl chloride	4.0	U	500	393		ug/L		79	66 - 129
Xylenes, Total	2.3	U	1000	1110		ug/L		111	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*89*		*60 - 124*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*
Dibromofluoromethane (Surr)	*90*		*70 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*

Lab Sample ID: 680-242160-C-14 MSD
Matrix: Water
Analysis Batch: 806240

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	2.1	U	500	468		ug/L		94	70 - 130	1	30
1,1,2,2-Tetrachloroethane	4.0	U	500	592		ug/L		118	70 - 130	0	30
1,1,2-Trichloro-1,2,2-trifluoroethane	2.3	U	500	494		ug/L		99	63 - 141	7	30
1,1,2-Trichloroethane	3.2	U	500	480		ug/L		96	70 - 130	3	30
1,1-Dichloroethane	3.3	U	500	466		ug/L		93	70 - 130	1	30
1,1-Dichloroethene	3.3	U	500	488		ug/L		98	70 - 130	5	20
1,2,4-Trichlorobenzene	5.3	U	500	596		ug/L		119	70 - 130	10	30
1,2-Dibromo-3-Chloropropane	18	U	500	551		ug/L		110	70 - 130	27	30
1,2-Dibromoethane (EDB)	3.3	U	500	488		ug/L		98	70 - 130	7	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 680-242160-C-14 MSD
Matrix: Water
Analysis Batch: 806240

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dichlorobenzene	3.1	U	500	587		ug/L		117	70 - 130	10	30
1,2-Dichloroethane	2.5	U	500	507		ug/L		101	70 - 130	6	50
1,2-Dichloropropane	2.2	U	500	481		ug/L		96	70 - 130	4	20
1,3-Dichlorobenzene	3.1	U	500	563		ug/L		113	70 - 130	3	30
1,4-Dichlorobenzene	3.1	U	500	557		ug/L		111	70 - 130	3	30
2-Butanone (MEK)	64	U	2500	2490		ug/L		99	69 - 120	12	30
2-Hexanone	32	U J3	2500	2470		ug/L		99	70 - 130	1	20
4-Methyl-2-pentanone	27	U	2500	2410		ug/L		96	68 - 120	4	30
Acetone	37	U	2500	2410		ug/L		96	67 - 120	10	30
Benzene	2.7	U	500	482		ug/L		96	70 - 130	1	30
Bromodichloromethane	2.9	I	500	481		ug/L		96	70 - 130	4	30
Bromoform	5.9	U J3	500	531		ug/L		106	69 - 129	10	30
Bromomethane	37	U	500	249		ug/L		50	28 - 192	5	30
Carbon disulfide	4.3	U	500	482		ug/L		96	70 - 130	7	30
Carbon tetrachloride	3.0	U	500	493		ug/L		99	70 - 130	3	30
Chlorobenzene	1.5	U	500	530		ug/L		106	70 - 130	0	30
Chloroethane	46	U	500	378		ug/L		76	31 - 213	30	30
Chloroform	2.7	U	500	487		ug/L		97	70 - 130	3	30
Chloromethane	5.4	U	500	487		ug/L		97	59 - 127	25	30
cis-1,2-Dichloroethene	2.5	U	500	499		ug/L		100	70 - 130	2	30
cis-1,3-Dichloropropene	2.6	U	500	473		ug/L		95	70 - 130	3	20
Cyclohexane	2.8	U	500	508		ug/L		102	23 - 175	3	30
Dibromochloromethane	6.0	I	500	450		ug/L		89	70 - 130	1	30
Dichlorodifluoromethane	3.6	U	500	511		ug/L		102	70 - 130	24	40
Ethylbenzene	2.0	U	500	552		ug/L		110	70 - 130	1	20
Isopropylbenzene	2.6	U	500	577		ug/L		115	70 - 130	0	30
m,p-Xylenes	4.9	U	500	556		ug/L		111	70 - 130	1	30
Methyl acetate	32	U	1000	1080		ug/L		108	67 - 120	22	30
Methyl tert-butyl ether	8.1	U	500	511		ug/L		102	70 - 130	12	30
Methylene Chloride	32	U	500	451		ug/L		90	70 - 130	1	30
o-Xylene	2.6	U	500	559		ug/L		112	70 - 130	0	30
Styrene	2.7	U	500	539		ug/L		108	70 - 130	3	30
Tetrachloroethene	3.5	U	500	516		ug/L		103	70 - 130	2	30
Toluene	2.5	U	500	490		ug/L		98	70 - 130	1	30
trans-1,2-Dichloroethene	3.4	U	500	479		ug/L		96	70 - 130	6	30
trans-1,3-Dichloropropene	2.3	U	500	448		ug/L		90	70 - 130	3	30
Trichloroethene	2.0	U	500	483		ug/L		97	70 - 130	0	30
Trichlorofluoromethane	3.3	U	500	374		ug/L		75	63 - 142	16	30
Vinyl chloride	4.0	U	500	517		ug/L		103	66 - 129	27	30
Xylenes, Total	2.3	U	1000	1120		ug/L		112	70 - 130	0	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*60 - 124*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*
Dibromofluoromethane (Surr)	*93*		*70 - 130*
Toluene-d8 (Surr)	*105*		*70 - 130*

GC/MS VOA

Analysis Batch: 806030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-29412-4	LC34-DPT1015-025.0-20231025	Total/NA	Water	8260D	
670-29412-11	LC34-DPT1016-034.0-20231026	Total/NA	Water	8260D	
670-29412-12	LC34-DPT1016-038.0-20231026	Total/NA	Water	8260D	
670-29412-13	LC34-DPT1017-008.0-20231026	Total/NA	Water	8260D	
670-29412-14	LC34-DPT1017-013.0-20231026	Total/NA	Water	8260D	
670-29412-15	LC34-DPT1017-018.0-20231026	Total/NA	Water	8260D	
670-29412-16	LC34-DPT1017-025.0-20231026	Total/NA	Water	8260D	
670-29412-17	LC34-DPT1017-034.0-20231026	Total/NA	Water	8260D	
670-29412-18	LC34-DPT1017-038.0-20231026	Total/NA	Water	8260D	
670-29412-19	LC34-DPT1018-008.0-20231026	Total/NA	Water	8260D	
670-29412-20	LC34-DPT1018-013.0-20231026	Total/NA	Water	8260D	
670-29412-21	LC34-DPT1018- 018.0-20231026	Total/NA	Water	8260D	
670-29412-22	LC34-DPT1018-025.0-20231026	Total/NA	Water	8260D	
670-29412-23	LC34-DPT1018-034.0-20231026	Total/NA	Water	8260D	
670-29412-24	LC34-DPT1018-038.0-20231026	Total/NA	Water	8260D	
670-29412-25	LC34-DPT0984-043.0-20231026	Total/NA	Water	8260D	
670-29412-26	LC34-DPT0984-038.0-20231026	Total/NA	Water	8260D	
MB 680-806030/8	Method Blank	Total/NA	Water	8260D	
LCS 680-806030/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-806030/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 806240

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-29412-1	LC34-DPT1015-008.0-20231025	Total/NA	Water	8260D	
670-29412-2	LC34-DPT1015-013.0-20231025	Total/NA	Water	8260D	
670-29412-3	LC34-DPT1015-018.0-20231025	Total/NA	Water	8260D	
670-29412-5	LC34-DPT1015-034.0-20231025	Total/NA	Water	8260D	
670-29412-6	LC34-DPT1015-038.0 -20231025	Total/NA	Water	8260D	
670-29412-7	LC34-DPT1016-008.0-20231025	Total/NA	Water	8260D	
670-29412-8	LC34-DPT1016- 013.0-20231025	Total/NA	Water	8260D	
670-29412-9	LC34-DPT1016-018.0-20231025	Total/NA	Water	8260D	
670-29412-10	LC34-DPT1016-025.0-20231025	Total/NA	Water	8260D	
MB 680-806240/9	Method Blank	Total/NA	Water	8260D	
LCS 680-806240/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-806240/5	Lab Control Sample Dup	Total/NA	Water	8260D	
680-242160-C-14 MS	Matrix Spike	Total/NA	Water	8260D	
680-242160-C-14 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Lab Chronicle

Client: Tetra Tech, Inc.
Job ID: 670-29412-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT1015-008.0-20231025
Lab Sample ID: 670-29412-1
Date Collected: 10/25/23 14:05
Matrix: Water
Date Received: 10/27/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		2	806240	Y1S	EET SAV	11/03/23 20:14

Client Sample ID: LC34-DPT1015-013.0-20231025
Lab Sample ID: 670-29412-2
Date Collected: 10/25/23 14:15
Matrix: Water
Date Received: 10/27/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	806240	Y1S	EET SAV	11/03/23 14:02

Client Sample ID: LC34-DPT1015-018.0-20231025
Lab Sample ID: 670-29412-3
Date Collected: 10/25/23 14:30
Matrix: Water
Date Received: 10/27/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		5	806240	Y1S	EET SAV	11/03/23 19:28

Client Sample ID: LC34-DPT1015-025.0-20231025
Lab Sample ID: 670-29412-4
Date Collected: 10/25/23 14:50
Matrix: Water
Date Received: 10/27/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		5	806030	Y1S	EET SAV	11/02/23 19:33

Client Sample ID: LC34-DPT1015-034.0-20231025
Lab Sample ID: 670-29412-5
Date Collected: 10/25/23 15:10
Matrix: Water
Date Received: 10/27/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		2	806240	Y1S	EET SAV	11/03/23 20:37

Client Sample ID: LC34-DPT1015-038.0 -20231025
Lab Sample ID: 670-29412-6
Date Collected: 10/25/23 15:30
Matrix: Water
Date Received: 10/27/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	806240	Y1S	EET SAV	11/03/23 14:25

Client Sample ID: LC34-DPT1016-008.0-20231025
Lab Sample ID: 670-29412-7
Date Collected: 10/25/23 16:10
Matrix: Water
Date Received: 10/27/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	806240	Y1S	EET SAV	11/03/23 14:49

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-29412-1

Client Sample ID: LC34-DPT1016- 013.0-20231025
Lab Sample ID: 670-29412-8
Date Collected: 10/25/23 16:25
Matrix: Water
Date Received: 10/27/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	806240	Y1S	EET SAV	11/03/23 15:12

Client Sample ID: LC34-DPT1016-018.0-20231025
Lab Sample ID: 670-29412-9
Date Collected: 10/25/23 16:40
Matrix: Water
Date Received: 10/27/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		5	806240	Y1S	EET SAV	11/03/23 19:51

Client Sample ID: LC34-DPT1016-025.0-20231025
Lab Sample ID: 670-29412-10
Date Collected: 10/25/23 16:55
Matrix: Water
Date Received: 10/27/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		10	806240	Y1S	EET SAV	11/03/23 17:54

Client Sample ID: LC34-DPT1016-034.0-20231026
Lab Sample ID: 670-29412-11
Date Collected: 10/26/23 07:45
Matrix: Water
Date Received: 10/27/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	806030	Y1S	EET SAV	11/02/23 14:27

Client Sample ID: LC34-DPT1016-038.0-20231026
Lab Sample ID: 670-29412-12
Date Collected: 10/26/23 08:10
Matrix: Water
Date Received: 10/27/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	806030	Y1S	EET SAV	11/02/23 14:50

Client Sample ID: LC34-DPT1017-008.0-20231026
Lab Sample ID: 670-29412-13
Date Collected: 10/26/23 08:45
Matrix: Water
Date Received: 10/27/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	806030	Y1S	EET SAV	11/02/23 15:14

Client Sample ID: LC34-DPT1017-013.0-20231026
Lab Sample ID: 670-29412-14
Date Collected: 10/26/23 09:00
Matrix: Water
Date Received: 10/27/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		2	806030	Y1S	EET SAV	11/02/23 19:57

Lab Chronicle

Client: Tetra Tech, Inc.
Job ID: 670-29412-1
Project/Site: NASA KSC LC34 DPT

Client Sample ID: LC34-DPT1017-018.0-20231026
Lab Sample ID: 670-29412-15
Date Collected: 10/26/23 09:15
Matrix: Water
Date Received: 10/27/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	806030	Y1S	EET SAV	11/02/23 15:37

Client Sample ID: LC34-DPT1017-025.0-20231026
Lab Sample ID: 670-29412-16
Date Collected: 10/26/23 09:30
Matrix: Water
Date Received: 10/27/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	806030	Y1S	EET SAV	11/02/23 16:01

Client Sample ID: LC34-DPT1017-034.0-20231026
Lab Sample ID: 670-29412-17
Date Collected: 10/26/23 09:45
Matrix: Water
Date Received: 10/27/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		2	806030	Y1S	EET SAV	11/02/23 20:20

Client Sample ID: LC34-DPT1017-038.0-20231026
Lab Sample ID: 670-29412-18
Date Collected: 10/26/23 10:10
Matrix: Water
Date Received: 10/27/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	806030	Y1S	EET SAV	11/02/23 16:24

Client Sample ID: LC34-DPT1018-008.0-20231026
Lab Sample ID: 670-29412-19
Date Collected: 10/26/23 10:45
Matrix: Water
Date Received: 10/27/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	806030	Y1S	EET SAV	11/02/23 16:48

Client Sample ID: LC34-DPT1018-013.0-20231026
Lab Sample ID: 670-29412-20
Date Collected: 10/26/23 11:00
Matrix: Water
Date Received: 10/27/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	806030	Y1S	EET SAV	11/02/23 17:11

Client Sample ID: LC34-DPT1018- 018.0-20231026
Lab Sample ID: 670-29412-21
Date Collected: 10/26/23 11:15
Matrix: Water
Date Received: 10/27/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		2	806030	Y1S	EET SAV	11/02/23 20:44

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-29412-1

Client Sample ID: LC34-DPT1018-025.0-20231026
Lab Sample ID: 670-29412-22
Date Collected: 10/26/23 11:30
Matrix: Water
Date Received: 10/27/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	806030	Y1S	EET SAV	11/02/23 17:35

Client Sample ID: LC34-DPT1018-034.0-20231026
Lab Sample ID: 670-29412-23
Date Collected: 10/26/23 11:45
Matrix: Water
Date Received: 10/27/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	806030	Y1S	EET SAV	11/02/23 17:58

Client Sample ID: LC34-DPT1018-038.0-20231026
Lab Sample ID: 670-29412-24
Date Collected: 10/26/23 12:10
Matrix: Water
Date Received: 10/27/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	806030	Y1S	EET SAV	11/02/23 18:22

Client Sample ID: LC34-DPT0984-043.0-20231026
Lab Sample ID: 670-29412-25
Date Collected: 10/26/23 13:05
Matrix: Water
Date Received: 10/27/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	806030	Y1S	EET SAV	11/02/23 18:46

Client Sample ID: LC34-DPT0984-038.0-20231026
Lab Sample ID: 670-29412-26
Date Collected: 10/26/23 13:20
Matrix: Water
Date Received: 10/27/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	806030	Y1S	EET SAV	11/02/23 19:09

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: Tetra Tech, Inc.
Job ID: 670-29412-1
Project/Site: NASA KSC LC34 DPT

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87052	11-09-23

Method Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-29412-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET SAV
5030B	Purge and Trap	SW846	EET SAV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Sample Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-29412-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
670-29412-1	LC34-DPT1015-008.0-20231025	Water	10/25/23 14:05	10/27/23 08:00
670-29412-2	LC34-DPT1015-013.0-20231025	Water	10/25/23 14:15	10/27/23 08:00
670-29412-3	LC34-DPT1015-018.0-20231025	Water	10/25/23 14:30	10/27/23 08:00
670-29412-4	LC34-DPT1015-025.0-20231025	Water	10/25/23 14:50	10/27/23 08:00
670-29412-5	LC34-DPT1015-034.0-20231025	Water	10/25/23 15:10	10/27/23 08:00
670-29412-6	LC34-DPT1015-038.0 -20231025	Water	10/25/23 15:30	10/27/23 08:00
670-29412-7	LC34-DPT1016-008.0-20231025	Water	10/25/23 16:10	10/27/23 08:00
670-29412-8	LC34-DPT1016- 013.0-20231025	Water	10/25/23 16:25	10/27/23 08:00
670-29412-9	LC34-DPT1016-018.0-20231025	Water	10/25/23 16:40	10/27/23 08:00
670-29412-10	LC34-DPT1016-025.0-20231025	Water	10/25/23 16:55	10/27/23 08:00
670-29412-11	LC34-DPT1016-034.0-20231026	Water	10/26/23 07:45	10/27/23 08:00
670-29412-12	LC34-DPT1016-038.0-20231026	Water	10/26/23 08:10	10/27/23 08:00
670-29412-13	LC34-DPT1017-008.0-20231026	Water	10/26/23 08:45	10/27/23 08:00
670-29412-14	LC34-DPT1017-013.0-20231026	Water	10/26/23 09:00	10/27/23 08:00
670-29412-15	LC34-DPT1017-018.0-20231026	Water	10/26/23 09:15	10/27/23 08:00
670-29412-16	LC34-DPT1017-025.0-20231026	Water	10/26/23 09:30	10/27/23 08:00
670-29412-17	LC34-DPT1017-034.0-20231026	Water	10/26/23 09:45	10/27/23 08:00
670-29412-18	LC34-DPT1017-038.0-20231026	Water	10/26/23 10:10	10/27/23 08:00
670-29412-19	LC34-DPT1018-008.0-20231026	Water	10/26/23 10:45	10/27/23 08:00
670-29412-20	LC34-DPT1018-013.0-20231026	Water	10/26/23 11:00	10/27/23 08:00
670-29412-21	LC34-DPT1018- 018.0-20231026	Water	10/26/23 11:15	10/27/23 08:00
670-29412-22	LC34-DPT1018-025.0-20231026	Water	10/26/23 11:30	10/27/23 08:00
670-29412-23	LC34-DPT1018-034.0-20231026	Water	10/26/23 11:45	10/27/23 08:00
670-29412-24	LC34-DPT1018-038.0-20231026	Water	10/26/23 12:10	10/27/23 08:00
670-29412-25	LC34-DPT0984-043.0-20231026	Water	10/26/23 13:05	10/27/23 08:00
670-29412-26	LC34-DPT0984-038.0-20231026	Water	10/26/23 13:20	10/27/23 08:00

Tetra Tech, Inc.

CHAIN OF CUSTODY | NUMBER No. 3799 | PAGE 1 OF 2

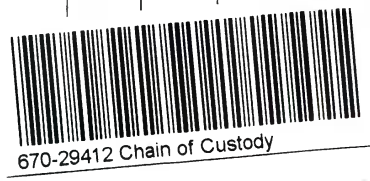
PROJECT NO: 112G-08985	FACILITY: KSC-LC34	PROJECT MANAGER Mark Sonnet	PHONE NUMBER (412) 921-8622	LABORATORY NAME AND CONTACT: Eurofins — Kaitlin Dylnicki
SAMPLERS (SIGNATURE) - Chuck Sorden		FIELD OPERATIONS LEADER Chuck Sorden	PHONE NUMBER (321) 591-7580	ADDRESS 481 Newburyport Ave.
		CARRIER/WAYBILL NUMBER		CITY, STATE Altamonte Springs, FL

STANDARD TAT ☒
RUSH TAT ☐ ☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): G G
PRESERVATIVE USED: HCl/4°C 4°C

TYPE OF ANALYSIS: 8260D-(MOD) NASA LC34 Custom List; 8260D-(MOD) NASA LC34 Custom List

DATE YEAR 2023	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS			COMMENTS
10/25	1405	LC34-DPT1015-008.0-20231025	128	6	10	GW	G	4 ~~2~~	X	X	
	1415	LC34-DPT1015-013.0-20231025		11	15						
	1430	LC34-DPT1015-018.0-20231025		16	20						
	1450	LC34-DPT1015-025.0-20231025		23	27						
	1510	LC34-DPT1015-034.0-20231025		32	36						
	1530	LC34-DPT1015-038.0-20231025	128	36	40						
	1610	LC34-DPT1016-008.0-20231025	135	6	10						
	1625	LC34-DPT1016-013.0-20231025		11	15						
	1640	LC34-DPT1016-018.0-20231025		16	20						
10/25	1655	LC34-DPT1016-025.0-20231025		23	27						
10/26	0745	LC34-DPT1016-034.0-20231026	135	32	36						
	0810	LC34-DPT1016-038.0-20231026	~~128~~	36	40						
10/26	0845	LC34-DPT1017-008.0-20231026	136	6	10	GW	G	4	X	X	



	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	10/26/23	1400	1. RECEIVED BY ML	10/27/23	800
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS: 0.7 / 0.5

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R FORM NO. TT-NUS-16

596

Tetra Tech, Inc.

CHAIN OF CUSTODY | NUMBER No. 3801 | PAGE 2 OF 2

PROJECT NO: 112G08985	FACILITY: KSC-LC34	PROJECT MANAGER Mark Sonnet	PHONE NUMBER (412) 921-8622	LABORATORY NAME AND CONTACT: Eurofins — Kaitlin Dylnicki
SAMPLERS (SIGNATURE) - Chuck Sorden		FIELD OPERATIONS LEADER Chuck Sorden	PHONE NUMBER (321) 591-7580	ADDRESS 481 Newburyport Ave.
		CARRIER/WAYBILL NUMBER		CITY, STATE Altamonte Springs, FL

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): G G
PRESERVATIVE USED: HCl | 4°C | 4°C

TYPE OF ANALYSIS: 8260D-(MOD) NASA LC34 Custom List | 8260D-(MOD) NASA LC34 Custom List

DATE YEAR 2023	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS			COMMENTS
10/26	0900	LC34-DPT1017-013.0-20231026	136	11	15	GW	G	4	X	X	
	0915	LC34-DPT1017-018.0-20231026		16	20						
	0930	LC34-DPT1017-025.0-20231026		23	27						
	0945	LC34-DPT1017-034.0-20231026		32	36						
	1010	LC34-DPT1017-038.0-20231026	136	36	40						
	1045	LC34-DPT1018-008.0-20231026	137	6	10						
	1100	LC34-DPT1018-013.0-20231026		11	15						
	1115	LC34-DPT1018-018.0-20231026		16	20						
	1130	LC34-DPT1018-025.0-20231026		23	27						
	1145	LC34-DPT1018-034.0-20231026		32	36						
	1210	LC34-DPT1018-038.0-20231026	137	36	40						
	1305	LC34-DPT0984-043.0-20231026	122	41	45						
10/26	1320	LC34-DPT0984-038.0-20231026	122	36	40	GW	G	4	X	X	

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	10/26/23	1400	1. RECEIVED BY ML	12/27/23	8:00
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS: 0.7 / 0.5

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

Eurofins Orlando
481 Newburyport Avenue
Altamonte Springs FL 32701
Phone: 407-339-5984 Fax: 407-260-6110

Chain of Custody Record

eurofins

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Dylnicki, Kaitlin	Carrier Tracking No(s):	COC No: 670-17791 1
Client Contact: Shipping/Receiving	Phone:	E-Mail: kaitlin.dylnicki@et.eurofinsus.com	State of Origin: Florida	Page: Page 1 of 3
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP Florida		Job #: 670-29412-1
Address: 5102 LaRoche Avenue,	Due Date Requested: 11/8/2023			Preservation Codes.
City: Savannah	TAT Requested (days):			A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify)
State, Zip: GA, 31404				Other:
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	PO #:			
Email:	WO #:			
Project Name: NASA KSC LC34 DPT	Project #: 67001156			
Site:	SSOW#:			

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D/5030B (MOD) NASA LC34 Custom	8260D/5030B_UP (MOD) NASA LC34 Custom	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
LC34-DPT1015-008.0-20231025 (670-29412-1)	9/25/23	14:05 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT1015-013.0-20231025 (670-29412-2)	9/25/23	14.15 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT1015-018.0-20231025 (670-29412-3)	9/25/23	14:30 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT1015-025.0-20231025 (670-29412-4)	9/25/23	14:50 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT1015-034.0-20231025 (670-29412-5)	9/25/23	15:10 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT1015-038.0 -20231025 (670-29412-6)	9/25/23	15:30 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT1016-008.0-20231025 (670-29412-7)	9/25/23	16:10 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT1016- 013.0-20231025 (670-29412-8)	9/25/23	16:25 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT1016-018.0-20231025 (670-29412-9)	9/25/23	16:40 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* ____ *Months*
Deliverable Requested. I II III, IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	BB	10/27 1600		TH	10-28-23	
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 9:58	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks: 2.1-2.4

Eurofins Orlando
481 Newburyport Avenue
Altamonte Springs, FL 32701
Phone: 407-339-5984 Fax: 407-260-6110

Chain of Custody Record

eurofins

Client Information (Sub Contract Lab)	Sampler	Lab PM: Dylnicki, Kaitlin	Carrier Tracking No(s):	COC No: 670-17791.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: kaitlin.dylnicki@et.eurofinsus.com	State of Origin: Florida	Page: Page 2 of 3
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP Florida		Job #: 670-29412-1
Address: 5102 LaRoche Avenue,	Due Date Requested: 11/8/2023			
City: Savannah	TAT Requested (days):			
State, Zip: GA, 31404				
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	PO #:			
Email:	WO #:			
Project Name: NASA KSC LC34 DPT	Project #: 67001156			
Site:	SSOW#:			

Preservation Codes:
A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify)
Other:

Analysis Requested

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D/5030B (MOD) NASA LC34 Custom	8260D/5030B_UP (MOD) NASA LC34 Custom	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
LC34-DPT1016-025.0-20231025 (670-29412-10)	9/25/23	16:55 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE, UNP
LC34-DPT1016-034.0-20231026 (670-29412-11)	9/26/23	07:45 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE, UNP
LC34-DPT1016-038.0-20231026 (670-29412-12)	9/26/23	08:10 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE, UNP
LC34-DPT1017-008.0-20231026 (670-29412-13)	9/26/23	08:45 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE, UNP
LC34-DPT1017-013.0-20231026 (670-29412-14)	9/26/23	09:00 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE, UNP
LC34-DPT1017-018.0-20231026 (670-29412-15)	9/26/23	09:15 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE, UNP
LC34-DPT1017-025.0-20231026 (670-29412-16)	9/26/23	09:30 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE, UNP
LC34-DPT1017-034.0-20231026 (670-29412-17)	9/26/23	09:45 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE, UNP
LC34-DPT1017-038.0-20231026 (670-29412-18)	9/26/23	10:10 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE, UNP

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* ____ *Months*
Deliverable Requested: I II III IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	10/27 1600		TH	10-28-23	
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 9:38	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks: 21 - 21

11/15/2023

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 670-29412-1

Login Number: 29412
List Number: 1
Creator: Clerisier, Meline

List Source: Eurofins Orlando

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 670-29412-1

Login Number: 29412
List Number: 2
Creator: Harley, Tynisha

List Source: Eurofins Savannah
List Creation: 10/28/23 01:15 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Mark Jonnet
Tetra Tech, Inc.
Foster Plaza 7
661 Anderson Drive
Suite 200
Pittsburgh, Pennsylvania 15220-2745

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JOB DESCRIPTION

NASA KSC LC34 DPT
SDG NUMBER 670-29481-1

JOB NUMBER

670-29481-1

Eurofins Orlando
481 Newburyport Avenue
Altamonte Springs FL 32701

See page two for job notes and contact information.

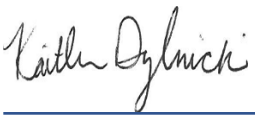
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Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization



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Authorized for release by
Kaitlin Dylnicki, Project Manager
kaitlin.dylnicki@et.eurofinsus.com
(407)339-5984

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QC Sample Results 31
QC Association Summary 43
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Method Summary 48
Sample Summary 49
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Definitions/Glossary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-29481-1
SDG: 670-29481-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
U	Indicates that the compound was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 670-29481-1

Laboratory: Eurofins Orlando

Narrative

Job Narrative
Client: Tetra Tech
Client PM: Mark Jonnet
Project: NASA KSC LC34
Project Number: 112G08985
670-29481-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 10/28/2023 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.5°C

GC/MS VOA
Method 8260D: The continuing calibration verification (CCV) associated with batch 680-806030 recovered outside acceptance criteria, low biased, for Bromomethane and Trichlorofluoromethane. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

Method 8260D: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 680-806030 recovered outside control limits for the following analytes: 1,1,2,2-Tetrachloroethane, 2-Butanone (MEK), 2-Hexanone, 4-Methyl-2-pentanone and Methyl acetate. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for analytical batch 680-806030 recovered outside control limits for the following analyte(s): 2-Butanone (MEK) and Acetone. These analytes have been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260D: The laboratory control sample duplicate (LCSD) for analytical batch 680-806030 recovered outside control limits for the following analytes: Bromoform. This analyte was biased high in the LCSD and was not detected in the associated samples; therefore, the data have been reported.

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-806030.

Method 8260D: The continuing calibration verification (CCV) associated with batch 680-806132 recovered above the upper control limit for 1,1,2,2-Tetrachloroethane, 1,2-Dibromo-3-Chloropropane and 2-Hexanone. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8260D: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 680-806132 recovered outside control limits for the following analytes: 1,2-Dibromo-3-Chloropropane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for analytical batch 680-806132

Job ID: 670-29481-1 (Continued)

Laboratory: Eurofins Orlando (Continued)

recovered outside control limits for the following analyte(s): Trichlorofluoromethane. Trichlorofluoromethane has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 8260D: The method blank for analytical batch 680-806132 contained 1,2,4-Trichlorobenzene above the method detection limit (MDL). None of the samples associated with this method blank contained the target compound; therefore, re-extraction and/or re-analysis of samples were not performed.

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-806132.

Method 8260D: The continuing calibration verification (CCV) associated with batch 680-806222 recovered outside acceptance criteria, low biased, for 2-Butanone (MEK), Bromoform and Methyl tert-butyl ether. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

Method 8260D: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 680-806222 recovered outside control limits for the following analytes: Chloroethane.

Method 8260D: The following samples were diluted to bring the concentration of target analytes within the calibration range: LC34-DPT0995-043.0-20231027 (670-29481-11), LC34-DPT0995-038.0-20231027 (670-29481-12), LC34-DPT0996-043.0-20231027 (670-29481-13), LC34-DPT0996-038.0-20231027 (670-29481-14) and LC34-DPT0998-025.0-20231027 (670-29481-16). Elevated reporting limits (RLs) are provided.

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-806222.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-29481-1
SDG: 670-29481-1

Client Sample ID: LC34-DPT0952-043.0-20231026 — Lab Sample ID: 670-29481-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.57	I	2.0	0.43	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0952-038.0-20231026 — Lab Sample ID: 670-29481-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.81	I	2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.34	I	1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	18		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0943-043.0- 20231026 — Lab Sample ID: 670-29481-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.67	I	2.0	0.43	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0943-38.0-20231026 — Lab Sample ID: 670-29481-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	1.8	I	2.0	0.43	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	110		1.0	0.25	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	2.3		1.0	0.34	ug/L	1		8260D	Total/NA
Vinyl chloride	68		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0944-043.0-20231026 — Lab Sample ID: 670-29481-5

No Detections.

Client Sample ID: LC34-DPT0944-038.0-20231026 — Lab Sample ID: 670-29481-6

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	26		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	23		1.0	0.40	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0949-043.0-20231026 — Lab Sample ID: 670-29481-7

No Detections.

Client Sample ID: LC34-DPT0949-038.0-20231026 — Lab Sample ID: 670-29481-8

No Detections.

Client Sample ID: LC34-DPT0946-043.0-20231027 — Lab Sample ID: 670-29481-9

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	1.1	I	2.0	0.43	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0946-038.0-20231027 — Lab Sample ID: 670-29481-10

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	10		1.0	0.25	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0995-043.0-20231027 — Lab Sample ID: 670-29481-11

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	5.7		5.0	1.3	ug/L	5		8260D	Total/NA
Vinyl chloride	670		5.0	2.0	ug/L	5		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-29481-1
SDG: 670-29481-1

Client Sample ID: LC34-DPT0995-038.0-20231027 — Lab Sample ID: 670-29481-12

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	19	I	20	5.0	ug/L	20		8260D	Total/NA
Vinyl chloride	2800		20	8.0	ug/L	20		8260D	Total/NA

Client Sample ID: LC34-DPT0996-043.0-20231027 — Lab Sample ID: 670-29481-13

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	14000		100	25	ug/L	100		8260D	Total/NA
Vinyl chloride	8300		100	40	ug/L	100		8260D	Total/NA

Client Sample ID: LC34-DPT0996-038.0-20231027 — Lab Sample ID: 670-29481-14

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	260		250	93	ug/L	25		8260D	Total/NA
trans-1,2-Dichloroethene	100		25	8.5	ug/L	25		8260D	Total/NA
Vinyl chloride	4000		25	10	ug/L	25		8260D	Total/NA
cis-1,2-Dichloroethene - DL	5200		50	13	ug/L	50		8260D	Total/NA

Client Sample ID: LC34-DPT0998-032.0-20231027 — Lab Sample ID: 670-29481-15

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.1		1.0	0.25	ug/L	1		8260D	Total/NA

Client Sample ID: LC34-DPT0998-025.0-20231027 — Lab Sample ID: 670-29481-16

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1400		10	2.5	ug/L	10		8260D	Total/NA
Vinyl chloride	1100		10	4.0	ug/L	10		8260D	Total/NA

Client Sample ID: LC34-DPT0998-018.0-20231027 — Lab Sample ID: 670-29481-17

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	13		1.0	0.25	ug/L	1		8260D	Total/NA
Vinyl chloride	29		1.0	0.40	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-29481-1
SDG: 670-29481-1

Client Sample ID: LC34-DPT0952-043.0-20231026
Date Collected: 10/26/23 14:00
Date Received: 10/28/23 08:00

Lab Sample ID: 670-29481-1
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			11/02/23 21:07	1
1,1,2,2-Tetrachloroethane	0.40	U J3	1.0	0.40	ug/L			11/02/23 21:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			11/02/23 21:07	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			11/02/23 21:07	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			11/02/23 21:07	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			11/02/23 21:07	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			11/02/23 21:07	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			11/02/23 21:07	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			11/02/23 21:07	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/02/23 21:07	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			11/02/23 21:07	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			11/02/23 21:07	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/02/23 21:07	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/02/23 21:07	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			11/02/23 21:07	1
2-Hexanone	3.2	U J3	10	3.2	ug/L			11/02/23 21:07	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			11/02/23 21:07	1
Acetone	3.7	U J3	10	3.7	ug/L			11/02/23 21:07	1
Benzene	0.27	U	1.0	0.27	ug/L			11/02/23 21:07	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			11/02/23 21:07	1
Bromoform	0.59	U J3	1.0	0.59	ug/L			11/02/23 21:07	1
Bromomethane	3.7	U	5.0	3.7	ug/L			11/02/23 21:07	1
Carbon disulfide	**0.57**	**I**	2.0	0.43	ug/L			11/02/23 21:07	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			11/02/23 21:07	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			11/02/23 21:07	1
Chloroethane	4.6	U	5.0	4.6	ug/L			11/02/23 21:07	1
Chloroform	0.27	U	1.0	0.27	ug/L			11/02/23 21:07	1
Chloromethane	0.54	U	1.0	0.54	ug/L			11/02/23 21:07	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			11/02/23 21:07	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			11/02/23 21:07	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			11/02/23 21:07	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			11/02/23 21:07	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			11/02/23 21:07	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			11/02/23 21:07	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			11/02/23 21:07	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			11/02/23 21:07	1
Methyl acetate	3.2	U J3	5.0	3.2	ug/L			11/02/23 21:07	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			11/02/23 21:07	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			11/02/23 21:07	1
o-Xylene	0.26	U	1.0	0.26	ug/L			11/02/23 21:07	1
Styrene	0.27	U	1.0	0.27	ug/L			11/02/23 21:07	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			11/02/23 21:07	1
Toluene	0.25	U	1.0	0.25	ug/L			11/02/23 21:07	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			11/02/23 21:07	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			11/02/23 21:07	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			11/02/23 21:07	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			11/02/23 21:07	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			11/02/23 21:07	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/02/23 21:07	1

Client Sample ID: LC34-DPT0952-043.0-20231026

Lab Sample ID: 670-29481-1

Date Collected: 10/26/23 14:00
Matrix: Water
Date Received: 10/28/23 08:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*60 - 124*		*11/02/23 21:07*	*1*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*11/02/23 21:07*	*1*
Dibromofluoromethane (Surr)	*88*		*70 - 130*		*11/02/23 21:07*	*1*
Toluene-d8 (Surr)	*88*		*70 - 130*		*11/02/23 21:07*	*1*

Client Sample ID: LC34-DPT0952-038.0-20231026

Lab Sample ID: 670-29481-2

Date Collected: 10/26/23 14:15
Matrix: Water
Date Received: 10/28/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			11/02/23 21:31	1
1,1,2,2-Tetrachloroethane	0.40	U J3	1.0	0.40	ug/L			11/02/23 21:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			11/02/23 21:31	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			11/02/23 21:31	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			11/02/23 21:31	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			11/02/23 21:31	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			11/02/23 21:31	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			11/02/23 21:31	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			11/02/23 21:31	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/02/23 21:31	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			11/02/23 21:31	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			11/02/23 21:31	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/02/23 21:31	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/02/23 21:31	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			11/02/23 21:31	1
2-Hexanone	3.2	U J3	10	3.2	ug/L			11/02/23 21:31	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			11/02/23 21:31	1
Acetone	3.7	U J3	10	3.7	ug/L			11/02/23 21:31	1
Benzene	0.27	U	1.0	0.27	ug/L			11/02/23 21:31	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			11/02/23 21:31	1
Bromoform	0.59	U J3	1.0	0.59	ug/L			11/02/23 21:31	1
Bromomethane	3.7	U	5.0	3.7	ug/L			11/02/23 21:31	1
Carbon disulfide	**0.81**	**I**	2.0	0.43	ug/L			11/02/23 21:31	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			11/02/23 21:31	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			11/02/23 21:31	1
Chloroethane	4.6	U	5.0	4.6	ug/L			11/02/23 21:31	1
Chloroform	0.27	U	1.0	0.27	ug/L			11/02/23 21:31	1
Chloromethane	0.54	U	1.0	0.54	ug/L			11/02/23 21:31	1
cis-1,2-Dichloroethene	**0.34**	**I**	1.0	0.25	ug/L			11/02/23 21:31	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			11/02/23 21:31	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			11/02/23 21:31	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			11/02/23 21:31	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			11/02/23 21:31	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			11/02/23 21:31	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			11/02/23 21:31	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			11/02/23 21:31	1
Methyl acetate	3.2	U J3	5.0	3.2	ug/L			11/02/23 21:31	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			11/02/23 21:31	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			11/02/23 21:31	1

Client Sample ID: LC34-DPT0952-038.0-20231026
Lab Sample ID: 670-29481-2
Date Collected: 10/26/23 14:15
Matrix: Water
Date Received: 10/28/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	0.26	U	1.0	0.26	ug/L			11/02/23 21:31	1
Styrene	0.27	U	1.0	0.27	ug/L			11/02/23 21:31	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			11/02/23 21:31	1
Toluene	0.25	U	1.0	0.25	ug/L			11/02/23 21:31	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			11/02/23 21:31	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			11/02/23 21:31	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			11/02/23 21:31	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			11/02/23 21:31	1
Vinyl chloride	**18**		1.0	0.40	ug/L			11/02/23 21:31	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/02/23 21:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 124*		*11/02/23 21:31*	*1*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*		*11/02/23 21:31*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*11/02/23 21:31*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*11/02/23 21:31*	*1*

Client Sample ID: LC34-DPT0943-043.0- 20231026
Lab Sample ID: 670-29481-3
Date Collected: 10/26/23 14:55
Matrix: Water
Date Received: 10/28/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			11/02/23 21:54	1
1,1,2,2-Tetrachloroethane	0.40	U J3	1.0	0.40	ug/L			11/02/23 21:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			11/02/23 21:54	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			11/02/23 21:54	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			11/02/23 21:54	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			11/02/23 21:54	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			11/02/23 21:54	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			11/02/23 21:54	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			11/02/23 21:54	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/02/23 21:54	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			11/02/23 21:54	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			11/02/23 21:54	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/02/23 21:54	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/02/23 21:54	1
2-Butanone (MEK)	6.4	U J3	10	6.4	ug/L			11/02/23 21:54	1
2-Hexanone	3.2	U J3	10	3.2	ug/L			11/02/23 21:54	1
4-Methyl-2-pentanone	2.7	U J3	10	2.7	ug/L			11/02/23 21:54	1
Acetone	3.7	U J3	10	3.7	ug/L			11/02/23 21:54	1
Benzene	0.27	U	1.0	0.27	ug/L			11/02/23 21:54	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			11/02/23 21:54	1
Bromoform	0.59	U J3	1.0	0.59	ug/L			11/02/23 21:54	1
Bromomethane	3.7	U	5.0	3.7	ug/L			11/02/23 21:54	1
Carbon disulfide	**0.67**	**I**	2.0	0.43	ug/L			11/02/23 21:54	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			11/02/23 21:54	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			11/02/23 21:54	1
Chloroethane	4.6	U	5.0	4.6	ug/L			11/02/23 21:54	1
Chloroform	0.27	U	1.0	0.27	ug/L			11/02/23 21:54	1

Client Sample ID: LC34-DPT0943-043.0- 20231026

Lab Sample ID: 670-29481-3

Date Collected: 10/26/23 14:55
Matrix: Water
Date Received: 10/28/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	0.54	U	1.0	0.54	ug/L			11/02/23 21:54	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			11/02/23 21:54	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			11/02/23 21:54	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			11/02/23 21:54	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			11/02/23 21:54	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			11/02/23 21:54	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			11/02/23 21:54	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			11/02/23 21:54	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			11/02/23 21:54	1
Methyl acetate	3.2	U J3	5.0	3.2	ug/L			11/02/23 21:54	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			11/02/23 21:54	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			11/02/23 21:54	1
o-Xylene	0.26	U	1.0	0.26	ug/L			11/02/23 21:54	1
Styrene	0.27	U	1.0	0.27	ug/L			11/02/23 21:54	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			11/02/23 21:54	1
Toluene	0.25	U	1.0	0.25	ug/L			11/02/23 21:54	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			11/02/23 21:54	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			11/02/23 21:54	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			11/02/23 21:54	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			11/02/23 21:54	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			11/02/23 21:54	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/02/23 21:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*60 - 124*		*11/02/23 21:54*	*1*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*		*11/02/23 21:54*	*1*
Dibromofluoromethane (Surr)	*89*		*70 - 130*		*11/02/23 21:54*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*11/02/23 21:54*	*1*

Client Sample ID: LC34-DPT0943-38.0-20231026

Lab Sample ID: 670-29481-4

Date Collected: 10/26/23 15:10
Matrix: Water
Date Received: 10/28/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			11/02/23 20:58	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			11/02/23 20:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			11/02/23 20:58	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			11/02/23 20:58	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			11/02/23 20:58	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			11/02/23 20:58	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			11/02/23 20:58	1
1,2-Dibromo-3-Chloropropane	1.8	U J3	5.0	1.8	ug/L			11/02/23 20:58	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			11/02/23 20:58	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/02/23 20:58	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			11/02/23 20:58	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			11/02/23 20:58	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/02/23 20:58	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/02/23 20:58	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			11/02/23 20:58	1

Client Sample ID: LC34-DPT0943-38.0-20231026 — **Lab Sample ID: 670-29481-4**
Date Collected: 10/26/23 15:10 — **Matrix: Water**
Date Received: 10/28/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	3.2	U	10	3.2	ug/L			11/02/23 20:58	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			11/02/23 20:58	1
Acetone	3.7	U	10	3.7	ug/L			11/02/23 20:58	1
Benzene	0.27	U	1.0	0.27	ug/L			11/02/23 20:58	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			11/02/23 20:58	1
Bromoform	0.59	U	1.0	0.59	ug/L			11/02/23 20:58	1
Bromomethane	3.7	U	5.0	3.7	ug/L			11/02/23 20:58	1
Carbon disulfide	**1.8**	**I**	2.0	0.43	ug/L			11/02/23 20:58	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			11/02/23 20:58	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			11/02/23 20:58	1
Chloroethane	4.6	U	5.0	4.6	ug/L			11/02/23 20:58	1
Chloroform	0.27	U	1.0	0.27	ug/L			11/02/23 20:58	1
Chloromethane	0.54	U	1.0	0.54	ug/L			11/02/23 20:58	1
cis-1,2-Dichloroethene	**110**		1.0	0.25	ug/L			11/02/23 20:58	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			11/02/23 20:58	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			11/02/23 20:58	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			11/02/23 20:58	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			11/02/23 20:58	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			11/02/23 20:58	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			11/02/23 20:58	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			11/02/23 20:58	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			11/02/23 20:58	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			11/02/23 20:58	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			11/02/23 20:58	1
o-Xylene	0.26	U	1.0	0.26	ug/L			11/02/23 20:58	1
Styrene	0.27	U	1.0	0.27	ug/L			11/02/23 20:58	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			11/02/23 20:58	1
Toluene	0.25	U	1.0	0.25	ug/L			11/02/23 20:58	1
trans-1,2-Dichloroethene	**2.3**		1.0	0.34	ug/L			11/02/23 20:58	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			11/02/23 20:58	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			11/02/23 20:58	1
Trichlorofluoromethane	0.33	U J3	1.0	0.33	ug/L			11/02/23 20:58	1
Vinyl chloride	**68**		1.0	0.40	ug/L			11/02/23 20:58	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/02/23 20:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*60 - 124*		*11/02/23 20:58*	*1*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*		*11/02/23 20:58*	*1*
Dibromofluoromethane (Surr)	*113*		*70 - 130*		*11/02/23 20:58*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*11/02/23 20:58*	*1*

Client Sample ID: LC34-DPT0944-043.0-20231026 — **Lab Sample ID: 670-29481-5**
Date Collected: 10/26/23 15:50 — **Matrix: Water**
Date Received: 10/28/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			11/02/23 21:17	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			11/02/23 21:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			11/02/23 21:17	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-29481-1
SDG: 670-29481-1

Client Sample ID: LC34-DPT0944-043.0-20231026
Date Collected: 10/26/23 15:50
Date Received: 10/28/23 08:00

Lab Sample ID: 670-29481-5
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			11/02/23 21:17	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			11/02/23 21:17	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			11/02/23 21:17	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			11/02/23 21:17	1
1,2-Dibromo-3-Chloropropane	1.8	U J3	5.0	1.8	ug/L			11/02/23 21:17	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			11/02/23 21:17	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/02/23 21:17	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			11/02/23 21:17	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			11/02/23 21:17	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/02/23 21:17	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/02/23 21:17	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			11/02/23 21:17	1
2-Hexanone	3.2	U	10	3.2	ug/L			11/02/23 21:17	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			11/02/23 21:17	1
Acetone	3.7	U	10	3.7	ug/L			11/02/23 21:17	1
Benzene	0.27	U	1.0	0.27	ug/L			11/02/23 21:17	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			11/02/23 21:17	1
Bromoform	0.59	U	1.0	0.59	ug/L			11/02/23 21:17	1
Bromomethane	3.7	U	5.0	3.7	ug/L			11/02/23 21:17	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			11/02/23 21:17	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			11/02/23 21:17	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			11/02/23 21:17	1
Chloroethane	4.6	U	5.0	4.6	ug/L			11/02/23 21:17	1
Chloroform	0.27	U	1.0	0.27	ug/L			11/02/23 21:17	1
Chloromethane	0.54	U	1.0	0.54	ug/L			11/02/23 21:17	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			11/02/23 21:17	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			11/02/23 21:17	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			11/02/23 21:17	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			11/02/23 21:17	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			11/02/23 21:17	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			11/02/23 21:17	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			11/02/23 21:17	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			11/02/23 21:17	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			11/02/23 21:17	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			11/02/23 21:17	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			11/02/23 21:17	1
o-Xylene	0.26	U	1.0	0.26	ug/L			11/02/23 21:17	1
Styrene	0.27	U	1.0	0.27	ug/L			11/02/23 21:17	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			11/02/23 21:17	1
Toluene	0.25	U	1.0	0.25	ug/L			11/02/23 21:17	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			11/02/23 21:17	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			11/02/23 21:17	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			11/02/23 21:17	1
Trichlorofluoromethane	0.33	U J3	1.0	0.33	ug/L			11/02/23 21:17	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			11/02/23 21:17	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/02/23 21:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*82*		*60 - 124*		*11/02/23 21:17*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*11/02/23 21:17*	*1*

Client Sample ID: LC34-DPT0944-043.0-20231026

Lab Sample ID: 670-29481-5

Date Collected: 10/26/23 15:50
Matrix: Water
Date Received: 10/28/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*11/02/23 21:17*	*1*
Toluene-d8 (Surr)	*105*		*70 - 130*		*11/02/23 21:17*	*1*

Client Sample ID: LC34-DPT0944-038.0-20231026

Lab Sample ID: 670-29481-6

Date Collected: 10/26/23 16:05
Matrix: Water
Date Received: 10/28/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			11/02/23 21:36	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			11/02/23 21:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			11/02/23 21:36	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			11/02/23 21:36	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			11/02/23 21:36	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			11/02/23 21:36	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			11/02/23 21:36	1
1,2-Dibromo-3-Chloropropane	1.8	U J3	5.0	1.8	ug/L			11/02/23 21:36	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			11/02/23 21:36	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/02/23 21:36	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			11/02/23 21:36	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			11/02/23 21:36	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/02/23 21:36	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/02/23 21:36	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			11/02/23 21:36	1
2-Hexanone	3.2	U	10	3.2	ug/L			11/02/23 21:36	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			11/02/23 21:36	1
Acetone	3.7	U	10	3.7	ug/L			11/02/23 21:36	1
Benzene	0.27	U	1.0	0.27	ug/L			11/02/23 21:36	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			11/02/23 21:36	1
Bromoform	0.59	U	1.0	0.59	ug/L			11/02/23 21:36	1
Bromomethane	3.7	U	5.0	3.7	ug/L			11/02/23 21:36	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			11/02/23 21:36	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			11/02/23 21:36	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			11/02/23 21:36	1
Chloroethane	4.6	U	5.0	4.6	ug/L			11/02/23 21:36	1
Chloroform	0.27	U	1.0	0.27	ug/L			11/02/23 21:36	1
Chloromethane	0.54	U	1.0	0.54	ug/L			11/02/23 21:36	1
cis-1,2-Dichloroethene	**26**		1.0	0.25	ug/L			11/02/23 21:36	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			11/02/23 21:36	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			11/02/23 21:36	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			11/02/23 21:36	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			11/02/23 21:36	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			11/02/23 21:36	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			11/02/23 21:36	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			11/02/23 21:36	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			11/02/23 21:36	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			11/02/23 21:36	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			11/02/23 21:36	1
o-Xylene	0.26	U	1.0	0.26	ug/L			11/02/23 21:36	1

Client Sample ID: LC34-DPT0944-038.0-20231026

Lab Sample ID: 670-29481-6

Date Collected: 10/26/23 16:05
Matrix: Water
Date Received: 10/28/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.27	U	1.0	0.27	ug/L			11/02/23 21:36	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			11/02/23 21:36	1
Toluene	0.25	U	1.0	0.25	ug/L			11/02/23 21:36	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			11/02/23 21:36	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			11/02/23 21:36	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			11/02/23 21:36	1
Trichlorofluoromethane	0.33	U J3	1.0	0.33	ug/L			11/02/23 21:36	1
Vinyl chloride	**23**		1.0	0.40	ug/L			11/02/23 21:36	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/02/23 21:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*87*		*60 - 124*		*11/02/23 21:36*	*1*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*		*11/02/23 21:36*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*11/02/23 21:36*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*11/02/23 21:36*	*1*

Client Sample ID: LC34-DPT0949-043.0-20231026

Lab Sample ID: 670-29481-7

Date Collected: 10/26/23 16:45
Matrix: Water
Date Received: 10/28/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			11/02/23 21:55	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			11/02/23 21:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			11/02/23 21:55	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			11/02/23 21:55	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			11/02/23 21:55	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			11/02/23 21:55	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			11/02/23 21:55	1
1,2-Dibromo-3-Chloropropane	1.8	U J3	5.0	1.8	ug/L			11/02/23 21:55	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			11/02/23 21:55	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/02/23 21:55	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			11/02/23 21:55	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			11/02/23 21:55	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/02/23 21:55	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/02/23 21:55	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			11/02/23 21:55	1
2-Hexanone	3.2	U	10	3.2	ug/L			11/02/23 21:55	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			11/02/23 21:55	1
Acetone	3.7	U	10	3.7	ug/L			11/02/23 21:55	1
Benzene	0.27	U	1.0	0.27	ug/L			11/02/23 21:55	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			11/02/23 21:55	1
Bromoform	0.59	U	1.0	0.59	ug/L			11/02/23 21:55	1
Bromomethane	3.7	U	5.0	3.7	ug/L			11/02/23 21:55	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			11/02/23 21:55	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			11/02/23 21:55	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			11/02/23 21:55	1
Chloroethane	4.6	U	5.0	4.6	ug/L			11/02/23 21:55	1
Chloroform	0.27	U	1.0	0.27	ug/L			11/02/23 21:55	1
Chloromethane	0.54	U	1.0	0.54	ug/L			11/02/23 21:55	1

Client Sample ID: LC34-DPT0949-043.0-20231026

Lab Sample ID: 670-29481-7

Date Collected: 10/26/23 16:45
Matrix: Water
Date Received: 10/28/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			11/02/23 21:55	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			11/02/23 21:55	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			11/02/23 21:55	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			11/02/23 21:55	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			11/02/23 21:55	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			11/02/23 21:55	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			11/02/23 21:55	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			11/02/23 21:55	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			11/02/23 21:55	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			11/02/23 21:55	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			11/02/23 21:55	1
o-Xylene	0.26	U	1.0	0.26	ug/L			11/02/23 21:55	1
Styrene	0.27	U	1.0	0.27	ug/L			11/02/23 21:55	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			11/02/23 21:55	1
Toluene	0.25	U	1.0	0.25	ug/L			11/02/23 21:55	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			11/02/23 21:55	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			11/02/23 21:55	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			11/02/23 21:55	1
Trichlorofluoromethane	0.33	U J3	1.0	0.33	ug/L			11/02/23 21:55	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			11/02/23 21:55	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/02/23 21:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*83*		*60 - 124*		*11/02/23 21:55*	*1*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*11/02/23 21:55*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*11/02/23 21:55*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*11/02/23 21:55*	*1*

Client Sample ID: LC34-DPT0949-038.0-20231026

Lab Sample ID: 670-29481-8

Date Collected: 10/26/23 17:00
Matrix: Water
Date Received: 10/28/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			11/02/23 22:14	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			11/02/23 22:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			11/02/23 22:14	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			11/02/23 22:14	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			11/02/23 22:14	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			11/02/23 22:14	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			11/02/23 22:14	1
1,2-Dibromo-3-Chloropropane	1.8	U J3	5.0	1.8	ug/L			11/02/23 22:14	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			11/02/23 22:14	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/02/23 22:14	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			11/02/23 22:14	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			11/02/23 22:14	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/02/23 22:14	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/02/23 22:14	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			11/02/23 22:14	1
2-Hexanone	3.2	U	10	3.2	ug/L			11/02/23 22:14	1

Client Sample ID: LC34-DPT0949-038.0-20231026

Lab Sample ID: 670-29481-8

Date Collected: 10/26/23 17:00
Matrix: Water
Date Received: 10/28/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			11/02/23 22:14	1
Acetone	3.7	U	10	3.7	ug/L			11/02/23 22:14	1
Benzene	0.27	U	1.0	0.27	ug/L			11/02/23 22:14	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			11/02/23 22:14	1
Bromoform	0.59	U	1.0	0.59	ug/L			11/02/23 22:14	1
Bromomethane	3.7	U	5.0	3.7	ug/L			11/02/23 22:14	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			11/02/23 22:14	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			11/02/23 22:14	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			11/02/23 22:14	1
Chloroethane	4.6	U	5.0	4.6	ug/L			11/02/23 22:14	1
Chloroform	0.27	U	1.0	0.27	ug/L			11/02/23 22:14	1
Chloromethane	0.54	U	1.0	0.54	ug/L			11/02/23 22:14	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			11/02/23 22:14	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			11/02/23 22:14	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			11/02/23 22:14	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			11/02/23 22:14	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			11/02/23 22:14	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			11/02/23 22:14	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			11/02/23 22:14	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			11/02/23 22:14	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			11/02/23 22:14	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			11/02/23 22:14	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			11/02/23 22:14	1
o-Xylene	0.26	U	1.0	0.26	ug/L			11/02/23 22:14	1
Styrene	0.27	U	1.0	0.27	ug/L			11/02/23 22:14	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			11/02/23 22:14	1
Toluene	0.25	U	1.0	0.25	ug/L			11/02/23 22:14	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			11/02/23 22:14	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			11/02/23 22:14	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			11/02/23 22:14	1
Trichlorofluoromethane	0.33	U J3	1.0	0.33	ug/L			11/02/23 22:14	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			11/02/23 22:14	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/02/23 22:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*81*		*60 - 124*		*11/02/23 22:14*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*11/02/23 22:14*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*11/02/23 22:14*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*11/02/23 22:14*	*1*

Client Sample ID: LC34-DPT0946-043.0-20231027

Lab Sample ID: 670-29481-9

Date Collected: 10/27/23 08:15
Matrix: Water
Date Received: 10/28/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			11/03/23 12:07	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			11/03/23 12:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			11/03/23 12:07	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			11/03/23 12:07	1

Client Sample ID: LC34-DPT0946-043.0-20231027
Date Collected: 10/27/23 08:15
Date Received: 10/28/23 08:00

Lab Sample ID: 670-29481-9
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			11/03/23 12:07	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			11/03/23 12:07	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			11/03/23 12:07	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			11/03/23 12:07	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			11/03/23 12:07	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/03/23 12:07	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			11/03/23 12:07	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			11/03/23 12:07	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/03/23 12:07	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/03/23 12:07	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			11/03/23 12:07	1
2-Hexanone	3.2	U	10	3.2	ug/L			11/03/23 12:07	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			11/03/23 12:07	1
Acetone	3.7	U	10	3.7	ug/L			11/03/23 12:07	1
Benzene	0.27	U	1.0	0.27	ug/L			11/03/23 12:07	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			11/03/23 12:07	1
Bromoform	0.59	U	1.0	0.59	ug/L			11/03/23 12:07	1
Bromomethane	3.7	U	5.0	3.7	ug/L			11/03/23 12:07	1
Carbon disulfide	**1.1**	**I**	2.0	0.43	ug/L			11/03/23 12:07	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			11/03/23 12:07	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			11/03/23 12:07	1
Chloroethane	4.6	U J3	5.0	4.6	ug/L			11/03/23 12:07	1
Chloroform	0.27	U	1.0	0.27	ug/L			11/03/23 12:07	1
Chloromethane	0.54	U	1.0	0.54	ug/L			11/03/23 12:07	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			11/03/23 12:07	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			11/03/23 12:07	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			11/03/23 12:07	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			11/03/23 12:07	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			11/03/23 12:07	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			11/03/23 12:07	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			11/03/23 12:07	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			11/03/23 12:07	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			11/03/23 12:07	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			11/03/23 12:07	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			11/03/23 12:07	1
o-Xylene	0.26	U	1.0	0.26	ug/L			11/03/23 12:07	1
Styrene	0.27	U	1.0	0.27	ug/L			11/03/23 12:07	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			11/03/23 12:07	1
Toluene	0.25	U	1.0	0.25	ug/L			11/03/23 12:07	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			11/03/23 12:07	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			11/03/23 12:07	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			11/03/23 12:07	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			11/03/23 12:07	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			11/03/23 12:07	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/03/23 12:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*79*		*60 - 124*		*11/03/23 12:07*	*1*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*11/03/23 12:07*	*1*
Dibromofluoromethane (Surr)	*113*		*70 - 130*		*11/03/23 12:07*	*1*

Client Sample ID: LC34-DPT0946-043.0-20231027

Lab Sample ID: 670-29481-9

Date Collected: 10/27/23 08:15
Matrix: Water
Date Received: 10/28/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	108		70 - 130		11/03/23 12:07	1

Client Sample ID: LC34-DPT0946-038.0-20231027

Lab Sample ID: 670-29481-10

Date Collected: 10/27/23 08:30
Matrix: Water
Date Received: 10/28/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			11/03/23 12:26	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			11/03/23 12:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			11/03/23 12:26	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			11/03/23 12:26	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			11/03/23 12:26	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			11/03/23 12:26	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			11/03/23 12:26	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			11/03/23 12:26	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			11/03/23 12:26	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/03/23 12:26	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			11/03/23 12:26	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			11/03/23 12:26	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/03/23 12:26	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/03/23 12:26	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			11/03/23 12:26	1
2-Hexanone	3.2	U	10	3.2	ug/L			11/03/23 12:26	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			11/03/23 12:26	1
Acetone	3.7	U	10	3.7	ug/L			11/03/23 12:26	1
Benzene	0.27	U	1.0	0.27	ug/L			11/03/23 12:26	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			11/03/23 12:26	1
Bromoform	0.59	U	1.0	0.59	ug/L			11/03/23 12:26	1
Bromomethane	3.7	U	5.0	3.7	ug/L			11/03/23 12:26	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			11/03/23 12:26	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			11/03/23 12:26	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			11/03/23 12:26	1
Chloroethane	4.6	U J3	5.0	4.6	ug/L			11/03/23 12:26	1
Chloroform	0.27	U	1.0	0.27	ug/L			11/03/23 12:26	1
Chloromethane	0.54	U	1.0	0.54	ug/L			11/03/23 12:26	1
cis-1,2-Dichloroethene	**10**		1.0	0.25	ug/L			11/03/23 12:26	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			11/03/23 12:26	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			11/03/23 12:26	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			11/03/23 12:26	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			11/03/23 12:26	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			11/03/23 12:26	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			11/03/23 12:26	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			11/03/23 12:26	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			11/03/23 12:26	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			11/03/23 12:26	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			11/03/23 12:26	1
o-Xylene	0.26	U	1.0	0.26	ug/L			11/03/23 12:26	1
Styrene	0.27	U	1.0	0.27	ug/L			11/03/23 12:26	1

Client Sample ID: LC34-DPT0946-038.0-20231027

Lab Sample ID: 670-29481-10

Date Collected: 10/27/23 08:30
Matrix: Water
Date Received: 10/28/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			11/03/23 12:26	1
Toluene	0.25	U	1.0	0.25	ug/L			11/03/23 12:26	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			11/03/23 12:26	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			11/03/23 12:26	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			11/03/23 12:26	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			11/03/23 12:26	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			11/03/23 12:26	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/03/23 12:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*80*		*60 - 124*		*11/03/23 12:26*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*11/03/23 12:26*	*1*
Dibromofluoromethane (Surr)	*108*		*70 - 130*		*11/03/23 12:26*	*1*
Toluene-d8 (Surr)	*113*		*70 - 130*		*11/03/23 12:26*	*1*

Client Sample ID: LC34-DPT0995-043.0-20231027

Lab Sample ID: 670-29481-11

Date Collected: 10/27/23 09:20
Matrix: Water
Date Received: 10/28/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.1	U	5.0	1.1	ug/L			11/03/23 14:45	5
1,1,2,2-Tetrachloroethane	2.0	U	5.0	2.0	ug/L			11/03/23 14:45	5
1,1,2-Trichloro-1,2,2-trifluoroethane	1.2	U	5.0	1.2	ug/L			11/03/23 14:45	5
1,1,2-Trichloroethane	1.6	U	5.0	1.6	ug/L			11/03/23 14:45	5
1,1-Dichloroethane	1.7	U	5.0	1.7	ug/L			11/03/23 14:45	5
1,1-Dichloroethene	1.7	U	5.0	1.7	ug/L			11/03/23 14:45	5
1,2,4-Trichlorobenzene	2.7	U	25	2.7	ug/L			11/03/23 14:45	5
1,2-Dibromo-3-Chloropropane	9.0	U	25	9.0	ug/L			11/03/23 14:45	5
1,2-Dibromoethane (EDB)	1.7	U	5.0	1.7	ug/L			11/03/23 14:45	5
1,2-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			11/03/23 14:45	5
1,2-Dichloroethane	1.3	U	5.0	1.3	ug/L			11/03/23 14:45	5
1,2-Dichloropropane	1.1	U	5.0	1.1	ug/L			11/03/23 14:45	5
1,3-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			11/03/23 14:45	5
1,4-Dichlorobenzene	1.6	U	5.0	1.6	ug/L			11/03/23 14:45	5
2-Butanone (MEK)	32	U	50	32	ug/L			11/03/23 14:45	5
2-Hexanone	16	U	50	16	ug/L			11/03/23 14:45	5
4-Methyl-2-pentanone	14	U	50	14	ug/L			11/03/23 14:45	5
Acetone	19	U	50	19	ug/L			11/03/23 14:45	5
Benzene	1.4	U	5.0	1.4	ug/L			11/03/23 14:45	5
Bromodichloromethane	1.3	U	5.0	1.3	ug/L			11/03/23 14:45	5
Bromoform	3.0	U	5.0	3.0	ug/L			11/03/23 14:45	5
Bromomethane	19	U	25	19	ug/L			11/03/23 14:45	5
Carbon disulfide	2.2	U	10	2.2	ug/L			11/03/23 14:45	5
Carbon tetrachloride	1.5	U	5.0	1.5	ug/L			11/03/23 14:45	5
Chlorobenzene	0.75	U	5.0	0.75	ug/L			11/03/23 14:45	5
Chloroethane	23	U J3	25	23	ug/L			11/03/23 14:45	5
Chloroform	1.4	U	5.0	1.4	ug/L			11/03/23 14:45	5
Chloromethane	2.7	U	5.0	2.7	ug/L			11/03/23 14:45	5
cis-1,2-Dichloroethene	**5.7**		5.0	1.3	ug/L			11/03/23 14:45	5

Client Sample ID: LC34-DPT0995-043.0-20231027

Lab Sample ID: 670-29481-11

Date Collected: 10/27/23 09:20
Matrix: Water
Date Received: 10/28/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	1.3	U	5.0	1.3	ug/L			11/03/23 14:45	5
Cyclohexane	1.4	U	5.0	1.4	ug/L			11/03/23 14:45	5
Dibromochloromethane	2.0	U	5.0	2.0	ug/L			11/03/23 14:45	5
Dichlorodifluoromethane	1.8	U	5.0	1.8	ug/L			11/03/23 14:45	5
Ethylbenzene	1.0	U	5.0	1.0	ug/L			11/03/23 14:45	5
Isopropylbenzene	1.3	U	5.0	1.3	ug/L			11/03/23 14:45	5
m,p-Xylenes	2.5	U	5.0	2.5	ug/L			11/03/23 14:45	5
Methyl acetate	16	U	25	16	ug/L			11/03/23 14:45	5
Methyl tert-butyl ether	4.1	U	25	4.1	ug/L			11/03/23 14:45	5
Methylene Chloride	16	U	25	16	ug/L			11/03/23 14:45	5
o-Xylene	1.3	U	5.0	1.3	ug/L			11/03/23 14:45	5
Styrene	1.4	U	5.0	1.4	ug/L			11/03/23 14:45	5
Tetrachloroethene	1.8	U	5.0	1.8	ug/L			11/03/23 14:45	5
Toluene	1.3	U	5.0	1.3	ug/L			11/03/23 14:45	5
trans-1,2-Dichloroethene	1.7	U	5.0	1.7	ug/L			11/03/23 14:45	5
trans-1,3-Dichloropropene	1.2	U	5.0	1.2	ug/L			11/03/23 14:45	5
Trichloroethene	1.0	U	5.0	1.0	ug/L			11/03/23 14:45	5
Trichlorofluoromethane	1.7	U	5.0	1.7	ug/L			11/03/23 14:45	5
Vinyl chloride	**670**		5.0	2.0	ug/L			11/03/23 14:45	5
Xylenes, Total	1.2	U	5.0	1.2	ug/L			11/03/23 14:45	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*81*		*60 - 124*		*11/03/23 14:45*	*5*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*11/03/23 14:45*	*5*
Dibromofluoromethane (Surr)	*110*		*70 - 130*		*11/03/23 14:45*	*5*
Toluene-d8 (Surr)	*112*		*70 - 130*		*11/03/23 14:45*	*5*

Client Sample ID: LC34-DPT0995-038.0-20231027

Lab Sample ID: 670-29481-12

Date Collected: 10/27/23 09:35
Matrix: Water
Date Received: 10/28/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	4.2	U	20	4.2	ug/L			11/03/23 14:03	20
1,1,2,2-Tetrachloroethane	8.0	U	20	8.0	ug/L			11/03/23 14:03	20
1,1,2-Trichloro-1,2,2-trifluoroethane	4.6	U	20	4.6	ug/L			11/03/23 14:03	20
1,1,2-Trichloroethane	6.4	U	20	6.4	ug/L			11/03/23 14:03	20
1,1-Dichloroethane	6.6	U	20	6.6	ug/L			11/03/23 14:03	20
1,1-Dichloroethene	6.6	U	20	6.6	ug/L			11/03/23 14:03	20
1,2,4-Trichlorobenzene	11	U	100	11	ug/L			11/03/23 14:03	20
1,2-Dibromo-3-Chloropropane	36	U	100	36	ug/L			11/03/23 14:03	20
1,2-Dibromoethane (EDB)	6.6	U	20	6.6	ug/L			11/03/23 14:03	20
1,2-Dichlorobenzene	6.2	U	20	6.2	ug/L			11/03/23 14:03	20
1,2-Dichloroethane	5.0	U	20	5.0	ug/L			11/03/23 14:03	20
1,2-Dichloropropane	4.4	U	20	4.4	ug/L			11/03/23 14:03	20
1,3-Dichlorobenzene	6.2	U	20	6.2	ug/L			11/03/23 14:03	20
1,4-Dichlorobenzene	6.2	U	20	6.2	ug/L			11/03/23 14:03	20
2-Butanone (MEK)	130	U	200	130	ug/L			11/03/23 14:03	20
2-Hexanone	64	U	200	64	ug/L			11/03/23 14:03	20
4-Methyl-2-pentanone	54	U	200	54	ug/L			11/03/23 14:03	20

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-29481-1
SDG: 670-29481-1

Client Sample ID: LC34-DPT0995-038.0-20231027

Lab Sample ID: 670-29481-12

Date Collected: 10/27/23 09:35
Matrix: Water
Date Received: 10/28/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	74	U	200	74	ug/L			11/03/23 14:03	20
Benzene	5.4	U	20	5.4	ug/L			11/03/23 14:03	20
Bromodichloromethane	5.0	U	20	5.0	ug/L			11/03/23 14:03	20
Bromoform	12	U	20	12	ug/L			11/03/23 14:03	20
Bromomethane	74	U	100	74	ug/L			11/03/23 14:03	20
Carbon disulfide	8.6	U	40	8.6	ug/L			11/03/23 14:03	20
Carbon tetrachloride	6.0	U	20	6.0	ug/L			11/03/23 14:03	20
Chlorobenzene	3.0	U	20	3.0	ug/L			11/03/23 14:03	20
Chloroethane	92	U J3	100	92	ug/L			11/03/23 14:03	20
Chloroform	5.4	U	20	5.4	ug/L			11/03/23 14:03	20
Chloromethane	11	U	20	11	ug/L			11/03/23 14:03	20
cis-1,2-Dichloroethene	**19**	**I**	20	5.0	ug/L			11/03/23 14:03	20
cis-1,3-Dichloropropene	5.2	U	20	5.2	ug/L			11/03/23 14:03	20
Cyclohexane	5.6	U	20	5.6	ug/L			11/03/23 14:03	20
Dibromochloromethane	7.8	U	20	7.8	ug/L			11/03/23 14:03	20
Dichlorodifluoromethane	7.2	U	20	7.2	ug/L			11/03/23 14:03	20
Ethylbenzene	4.0	U	20	4.0	ug/L			11/03/23 14:03	20
Isopropylbenzene	5.2	U	20	5.2	ug/L			11/03/23 14:03	20
m,p-Xylenes	9.8	U	20	9.8	ug/L			11/03/23 14:03	20
Methyl acetate	64	U	100	64	ug/L			11/03/23 14:03	20
Methyl tert-butyl ether	16	U	100	16	ug/L			11/03/23 14:03	20
Methylene Chloride	64	U	100	64	ug/L			11/03/23 14:03	20
o-Xylene	5.2	U	20	5.2	ug/L			11/03/23 14:03	20
Styrene	5.4	U	20	5.4	ug/L			11/03/23 14:03	20
Tetrachloroethene	7.0	U	20	7.0	ug/L			11/03/23 14:03	20
Toluene	5.0	U	20	5.0	ug/L			11/03/23 14:03	20
trans-1,2-Dichloroethene	6.8	U	20	6.8	ug/L			11/03/23 14:03	20
trans-1,3-Dichloropropene	4.6	U	20	4.6	ug/L			11/03/23 14:03	20
Trichloroethene	4.0	U	20	4.0	ug/L			11/03/23 14:03	20
Trichlorofluoromethane	6.6	U	20	6.6	ug/L			11/03/23 14:03	20
Vinyl chloride	**2800**		20	8.0	ug/L			11/03/23 14:03	20
Xylenes, Total	4.6	U	20	4.6	ug/L			11/03/23 14:03	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*76*		*60 - 124*		*11/03/23 14:03*	*20*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*11/03/23 14:03*	*20*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*11/03/23 14:03*	*20*
Toluene-d8 (Surr)	*109*		*70 - 130*		*11/03/23 14:03*	*20*

Client Sample ID: LC34-DPT0996-043.0-20231027

Lab Sample ID: 670-29481-13

Date Collected: 10/27/23 10:15
Matrix: Water
Date Received: 10/28/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	21	U	100	21	ug/L			11/03/23 13:23	100
1,1,2,2-Tetrachloroethane	40	U	100	40	ug/L			11/03/23 13:23	100
1,1,2-Trichloro-1,2,2-trifluoroethane	23	U	100	23	ug/L			11/03/23 13:23	100
1,1,2-Trichloroethane	32	U	100	32	ug/L			11/03/23 13:23	100
1,1-Dichloroethane	33	U	100	33	ug/L			11/03/23 13:23	100

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-29481-1
SDG: 670-29481-1

Client Sample ID: LC34-DPT0996-043.0-20231027
Date Collected: 10/27/23 10:15
Date Received: 10/28/23 08:00

Lab Sample ID: 670-29481-13
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	33	U	100	33	ug/L			11/03/23 13:23	100
1,2,4-Trichlorobenzene	53	U	500	53	ug/L			11/03/23 13:23	100
1,2-Dibromo-3-Chloropropane	180	U	500	180	ug/L			11/03/23 13:23	100
1,2-Dibromoethane (EDB)	33	U	100	33	ug/L			11/03/23 13:23	100
1,2-Dichlorobenzene	31	U	100	31	ug/L			11/03/23 13:23	100
1,2-Dichloroethane	25	U	100	25	ug/L			11/03/23 13:23	100
1,2-Dichloropropane	22	U	100	22	ug/L			11/03/23 13:23	100
1,3-Dichlorobenzene	31	U	100	31	ug/L			11/03/23 13:23	100
1,4-Dichlorobenzene	31	U	100	31	ug/L			11/03/23 13:23	100
2-Butanone (MEK)	640	U	1000	640	ug/L			11/03/23 13:23	100
2-Hexanone	320	U	1000	320	ug/L			11/03/23 13:23	100
4-Methyl-2-pentanone	270	U	1000	270	ug/L			11/03/23 13:23	100
Acetone	370	U	1000	370	ug/L			11/03/23 13:23	100
Benzene	27	U	100	27	ug/L			11/03/23 13:23	100
Bromodichloromethane	25	U	100	25	ug/L			11/03/23 13:23	100
Bromoform	59	U	100	59	ug/L			11/03/23 13:23	100
Bromomethane	370	U	500	370	ug/L			11/03/23 13:23	100
Carbon disulfide	43	U	200	43	ug/L			11/03/23 13:23	100
Carbon tetrachloride	30	U	100	30	ug/L			11/03/23 13:23	100
Chlorobenzene	15	U	100	15	ug/L			11/03/23 13:23	100
Chloroethane	460	U J3	500	460	ug/L			11/03/23 13:23	100
Chloroform	27	U	100	27	ug/L			11/03/23 13:23	100
Chloromethane	54	U	100	54	ug/L			11/03/23 13:23	100
cis-1,2-Dichloroethene	**14000**		100	25	ug/L			11/03/23 13:23	100
cis-1,3-Dichloropropene	26	U	100	26	ug/L			11/03/23 13:23	100
Cyclohexane	28	U	100	28	ug/L			11/03/23 13:23	100
Dibromochloromethane	39	U	100	39	ug/L			11/03/23 13:23	100
Dichlorodifluoromethane	36	U	100	36	ug/L			11/03/23 13:23	100
Ethylbenzene	20	U	100	20	ug/L			11/03/23 13:23	100
Isopropylbenzene	26	U	100	26	ug/L			11/03/23 13:23	100
m,p-Xylenes	49	U	100	49	ug/L			11/03/23 13:23	100
Methyl acetate	320	U	500	320	ug/L			11/03/23 13:23	100
Methyl tert-butyl ether	81	U	500	81	ug/L			11/03/23 13:23	100
Methylene Chloride	320	U	500	320	ug/L			11/03/23 13:23	100
o-Xylene	26	U	100	26	ug/L			11/03/23 13:23	100
Styrene	27	U	100	27	ug/L			11/03/23 13:23	100
Tetrachloroethene	35	U	100	35	ug/L			11/03/23 13:23	100
Toluene	25	U	100	25	ug/L			11/03/23 13:23	100
trans-1,2-Dichloroethene	34	U	100	34	ug/L			11/03/23 13:23	100
trans-1,3-Dichloropropene	23	U	100	23	ug/L			11/03/23 13:23	100
Trichloroethene	20	U	100	20	ug/L			11/03/23 13:23	100
Trichlorofluoromethane	33	U	100	33	ug/L			11/03/23 13:23	100
Vinyl chloride	**8300**		100	40	ug/L			11/03/23 13:23	100
Xylenes, Total	23	U	100	23	ug/L			11/03/23 13:23	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*79*		*60 - 124*		*11/03/23 13:23*	*100*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*11/03/23 13:23*	*100*
Dibromofluoromethane (Surr)	*113*		*70 - 130*		*11/03/23 13:23*	*100*
Toluene-d8 (Surr)	*111*		*70 - 130*		*11/03/23 13:23*	*100*

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-29481-1
SDG: 670-29481-1

Client Sample ID: LC34-DPT0996-038.0-20231027
Date Collected: 10/27/23 10:30
Date Received: 10/28/23 08:00

Lab Sample ID: 670-29481-14
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	5.3	U	25	5.3	ug/L			11/03/23 13:44	25
1,1,2,2-Tetrachloroethane	10	U	25	10	ug/L			11/03/23 13:44	25
1,1,2-Trichloro-1,2,2-trifluoroethane	5.8	U	25	5.8	ug/L			11/03/23 13:44	25
1,1,2-Trichloroethane	8.0	U	25	8.0	ug/L			11/03/23 13:44	25
1,1-Dichloroethane	8.3	U	25	8.3	ug/L			11/03/23 13:44	25
1,1-Dichloroethene	8.3	U	25	8.3	ug/L			11/03/23 13:44	25
1,2,4-Trichlorobenzene	13	U	130	13	ug/L			11/03/23 13:44	25
1,2-Dibromo-3-Chloropropane	45	U	130	45	ug/L			11/03/23 13:44	25
1,2-Dibromoethane (EDB)	8.3	U	25	8.3	ug/L			11/03/23 13:44	25
1,2-Dichlorobenzene	7.8	U	25	7.8	ug/L			11/03/23 13:44	25
1,2-Dichloroethane	6.3	U	25	6.3	ug/L			11/03/23 13:44	25
1,2-Dichloropropane	5.5	U	25	5.5	ug/L			11/03/23 13:44	25
1,3-Dichlorobenzene	7.8	U	25	7.8	ug/L			11/03/23 13:44	25
1,4-Dichlorobenzene	7.8	U	25	7.8	ug/L			11/03/23 13:44	25
2-Butanone (MEK)	160	U	250	160	ug/L			11/03/23 13:44	25
2-Hexanone	80	U	250	80	ug/L			11/03/23 13:44	25
4-Methyl-2-pentanone	68	U	250	68	ug/L			11/03/23 13:44	25
Acetone	**260**		250	93	ug/L			11/03/23 13:44	25
Benzene	6.8	U	25	6.8	ug/L			11/03/23 13:44	25
Bromodichloromethane	6.3	U	25	6.3	ug/L			11/03/23 13:44	25
Bromoform	15	U	25	15	ug/L			11/03/23 13:44	25
Bromomethane	93	U	130	93	ug/L			11/03/23 13:44	25
Carbon disulfide	11	U	50	11	ug/L			11/03/23 13:44	25
Carbon tetrachloride	7.5	U	25	7.5	ug/L			11/03/23 13:44	25
Chlorobenzene	3.8	U	25	3.8	ug/L			11/03/23 13:44	25
Chloroethane	120	U J3	130	120	ug/L			11/03/23 13:44	25
Chloroform	6.8	U	25	6.8	ug/L			11/03/23 13:44	25
Chloromethane	14	U	25	14	ug/L			11/03/23 13:44	25
cis-1,3-Dichloropropene	6.5	U	25	6.5	ug/L			11/03/23 13:44	25
Cyclohexane	7.0	U	25	7.0	ug/L			11/03/23 13:44	25
Dibromochloromethane	9.8	U	25	9.8	ug/L			11/03/23 13:44	25
Dichlorodifluoromethane	9.0	U	25	9.0	ug/L			11/03/23 13:44	25
Ethylbenzene	5.0	U	25	5.0	ug/L			11/03/23 13:44	25
Isopropylbenzene	6.5	U	25	6.5	ug/L			11/03/23 13:44	25
m,p-Xylenes	12	U	25	12	ug/L			11/03/23 13:44	25
Methyl acetate	80	U	130	80	ug/L			11/03/23 13:44	25
Methyl tert-butyl ether	20	U	130	20	ug/L			11/03/23 13:44	25
Methylene Chloride	80	U	130	80	ug/L			11/03/23 13:44	25
o-Xylene	6.5	U	25	6.5	ug/L			11/03/23 13:44	25
Styrene	6.8	U	25	6.8	ug/L			11/03/23 13:44	25
Tetrachloroethene	8.8	U	25	8.8	ug/L			11/03/23 13:44	25
Toluene	6.3	U	25	6.3	ug/L			11/03/23 13:44	25
trans-1,2-Dichloroethene	**100**		25	8.5	ug/L			11/03/23 13:44	25
trans-1,3-Dichloropropene	5.8	U	25	5.8	ug/L			11/03/23 13:44	25
Trichloroethene	5.0	U	25	5.0	ug/L			11/03/23 13:44	25
Trichlorofluoromethane	8.3	U	25	8.3	ug/L			11/03/23 13:44	25
Vinyl chloride	**4000**		25	10	ug/L			11/03/23 13:44	25
Xylenes, Total	5.8	U	25	5.8	ug/L			11/03/23 13:44	25

Client Sample ID: LC34-DPT0996-038.0-20231027

Lab Sample ID: 670-29481-14

Date Collected: 10/27/23 10:30
Matrix: Water
Date Received: 10/28/23 08:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*60 - 124*		*11/03/23 13:44*	*25*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*11/03/23 13:44*	*25*
Dibromofluoromethane (Surr)	*112*		*70 - 130*		*11/03/23 13:44*	*25*
Toluene-d8 (Surr)	*104*		*70 - 130*		*11/03/23 13:44*	*25*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**5200**		50	13	ug/L			11/03/23 15:23	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*81*		*60 - 124*		*11/03/23 15:23*	*50*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*11/03/23 15:23*	*50*
Dibromofluoromethane (Surr)	*113*		*70 - 130*		*11/03/23 15:23*	*50*
Toluene-d8 (Surr)	*112*		*70 - 130*		*11/03/23 15:23*	*50*

Client Sample ID: LC34-DPT0998-032.0-20231027

Lab Sample ID: 670-29481-15

Date Collected: 10/27/23 11:25
Matrix: Water
Date Received: 10/28/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			11/03/23 12:45	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			11/03/23 12:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			11/03/23 12:45	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			11/03/23 12:45	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			11/03/23 12:45	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			11/03/23 12:45	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			11/03/23 12:45	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			11/03/23 12:45	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			11/03/23 12:45	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/03/23 12:45	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			11/03/23 12:45	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			11/03/23 12:45	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/03/23 12:45	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/03/23 12:45	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			11/03/23 12:45	1
2-Hexanone	3.2	U	10	3.2	ug/L			11/03/23 12:45	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			11/03/23 12:45	1
Acetone	3.7	U	10	3.7	ug/L			11/03/23 12:45	1
Benzene	0.27	U	1.0	0.27	ug/L			11/03/23 12:45	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			11/03/23 12:45	1
Bromoform	0.59	U	1.0	0.59	ug/L			11/03/23 12:45	1
Bromomethane	3.7	U	5.0	3.7	ug/L			11/03/23 12:45	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			11/03/23 12:45	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			11/03/23 12:45	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			11/03/23 12:45	1
Chloroethane	4.6	U J3	5.0	4.6	ug/L			11/03/23 12:45	1
Chloroform	0.27	U	1.0	0.27	ug/L			11/03/23 12:45	1
Chloromethane	0.54	U	1.0	0.54	ug/L			11/03/23 12:45	1
cis-1,2-Dichloroethene	**1.1**		1.0	0.25	ug/L			11/03/23 12:45	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			11/03/23 12:45	1

Client Sample ID: LC34-DPT0998-032.0-20231027 — **Lab Sample ID: 670-29481-15**
Date Collected: 10/27/23 11:25 — **Matrix: Water**
Date Received: 10/28/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	0.28	U	1.0	0.28	ug/L			11/03/23 12:45	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			11/03/23 12:45	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			11/03/23 12:45	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			11/03/23 12:45	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			11/03/23 12:45	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			11/03/23 12:45	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			11/03/23 12:45	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			11/03/23 12:45	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			11/03/23 12:45	1
o-Xylene	0.26	U	1.0	0.26	ug/L			11/03/23 12:45	1
Styrene	0.27	U	1.0	0.27	ug/L			11/03/23 12:45	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			11/03/23 12:45	1
Toluene	0.25	U	1.0	0.25	ug/L			11/03/23 12:45	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			11/03/23 12:45	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			11/03/23 12:45	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			11/03/23 12:45	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			11/03/23 12:45	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			11/03/23 12:45	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/03/23 12:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*81*		*60 - 124*		*11/03/23 12:45*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*11/03/23 12:45*	*1*
Dibromofluoromethane (Surr)	*124*		*70 - 130*		*11/03/23 12:45*	*1*
Toluene-d8 (Surr)	*109*		*70 - 130*		*11/03/23 12:45*	*1*

Client Sample ID: LC34-DPT0998-025.0-20231027 — **Lab Sample ID: 670-29481-16**
Date Collected: 10/27/23 11:40 — **Matrix: Water**
Date Received: 10/28/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2.1	U	10	2.1	ug/L			11/03/23 14:24	10
1,1,2,2-Tetrachloroethane	4.0	U	10	4.0	ug/L			11/03/23 14:24	10
1,1,2-Trichloro-1,2,2-trifluoroethane	2.3	U	10	2.3	ug/L			11/03/23 14:24	10
1,1,2-Trichloroethane	3.2	U	10	3.2	ug/L			11/03/23 14:24	10
1,1-Dichloroethane	3.3	U	10	3.3	ug/L			11/03/23 14:24	10
1,1-Dichloroethene	3.3	U	10	3.3	ug/L			11/03/23 14:24	10
1,2,4-Trichlorobenzene	5.3	U	50	5.3	ug/L			11/03/23 14:24	10
1,2-Dibromo-3-Chloropropane	18	U	50	18	ug/L			11/03/23 14:24	10
1,2-Dibromoethane (EDB)	3.3	U	10	3.3	ug/L			11/03/23 14:24	10
1,2-Dichlorobenzene	3.1	U	10	3.1	ug/L			11/03/23 14:24	10
1,2-Dichloroethane	2.5	U	10	2.5	ug/L			11/03/23 14:24	10
1,2-Dichloropropane	2.2	U	10	2.2	ug/L			11/03/23 14:24	10
1,3-Dichlorobenzene	3.1	U	10	3.1	ug/L			11/03/23 14:24	10
1,4-Dichlorobenzene	3.1	U	10	3.1	ug/L			11/03/23 14:24	10
2-Butanone (MEK)	64	U	100	64	ug/L			11/03/23 14:24	10
2-Hexanone	32	U	100	32	ug/L			11/03/23 14:24	10
4-Methyl-2-pentanone	27	U	100	27	ug/L			11/03/23 14:24	10
Acetone	37	U	100	37	ug/L			11/03/23 14:24	10

Client Sample ID: LC34-DPT0998-025.0-20231027

Lab Sample ID: 670-29481-16

Date Collected: 10/27/23 11:40
Matrix: Water
Date Received: 10/28/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	2.7	U	10	2.7	ug/L			11/03/23 14:24	10
Bromodichloromethane	2.5	U	10	2.5	ug/L			11/03/23 14:24	10
Bromoform	5.9	U	10	5.9	ug/L			11/03/23 14:24	10
Bromomethane	37	U	50	37	ug/L			11/03/23 14:24	10
Carbon disulfide	4.3	U	20	4.3	ug/L			11/03/23 14:24	10
Carbon tetrachloride	3.0	U	10	3.0	ug/L			11/03/23 14:24	10
Chlorobenzene	1.5	U	10	1.5	ug/L			11/03/23 14:24	10
Chloroethane	46	U J3	50	46	ug/L			11/03/23 14:24	10
Chloroform	2.7	U	10	2.7	ug/L			11/03/23 14:24	10
Chloromethane	5.4	U	10	5.4	ug/L			11/03/23 14:24	10
cis-1,2-Dichloroethene	**1400**		10	2.5	ug/L			11/03/23 14:24	10
cis-1,3-Dichloropropene	2.6	U	10	2.6	ug/L			11/03/23 14:24	10
Cyclohexane	2.8	U	10	2.8	ug/L			11/03/23 14:24	10
Dibromochloromethane	3.9	U	10	3.9	ug/L			11/03/23 14:24	10
Dichlorodifluoromethane	3.6	U	10	3.6	ug/L			11/03/23 14:24	10
Ethylbenzene	2.0	U	10	2.0	ug/L			11/03/23 14:24	10
Isopropylbenzene	2.6	U	10	2.6	ug/L			11/03/23 14:24	10
m,p-Xylenes	4.9	U	10	4.9	ug/L			11/03/23 14:24	10
Methyl acetate	32	U	50	32	ug/L			11/03/23 14:24	10
Methyl tert-butyl ether	8.1	U	50	8.1	ug/L			11/03/23 14:24	10
Methylene Chloride	32	U	50	32	ug/L			11/03/23 14:24	10
o-Xylene	2.6	U	10	2.6	ug/L			11/03/23 14:24	10
Styrene	2.7	U	10	2.7	ug/L			11/03/23 14:24	10
Tetrachloroethene	3.5	U	10	3.5	ug/L			11/03/23 14:24	10
Toluene	2.5	U	10	2.5	ug/L			11/03/23 14:24	10
trans-1,2-Dichloroethene	3.4	U	10	3.4	ug/L			11/03/23 14:24	10
trans-1,3-Dichloropropene	2.3	U	10	2.3	ug/L			11/03/23 14:24	10
Trichloroethene	2.0	U	10	2.0	ug/L			11/03/23 14:24	10
Trichlorofluoromethane	3.3	U	10	3.3	ug/L			11/03/23 14:24	10
Vinyl chloride	**1100**		10	4.0	ug/L			11/03/23 14:24	10
Xylenes, Total	2.3	U	10	2.3	ug/L			11/03/23 14:24	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*60 - 124*		*11/03/23 14:24*	*10*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*11/03/23 14:24*	*10*
Dibromofluoromethane (Surr)	*119*		*70 - 130*		*11/03/23 14:24*	*10*
Toluene-d8 (Surr)	*96*		*70 - 130*		*11/03/23 14:24*	*10*

Client Sample ID: LC34-DPT0998-018.0-20231027

Lab Sample ID: 670-29481-17

Date Collected: 10/27/23 11:55
Matrix: Water
Date Received: 10/28/23 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			11/03/23 13:04	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			11/03/23 13:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			11/03/23 13:04	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			11/03/23 13:04	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			11/03/23 13:04	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			11/03/23 13:04	1

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-29481-1
SDG: 670-29481-1

Client Sample ID: LC34-DPT0998-018.0-20231027
Date Collected: 10/27/23 11:55
Date Received: 10/28/23 08:00

Lab Sample ID: 670-29481-17
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			11/03/23 13:04	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			11/03/23 13:04	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			11/03/23 13:04	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/03/23 13:04	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			11/03/23 13:04	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			11/03/23 13:04	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/03/23 13:04	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/03/23 13:04	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			11/03/23 13:04	1
2-Hexanone	3.2	U	10	3.2	ug/L			11/03/23 13:04	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			11/03/23 13:04	1
Acetone	3.7	U	10	3.7	ug/L			11/03/23 13:04	1
Benzene	0.27	U	1.0	0.27	ug/L			11/03/23 13:04	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			11/03/23 13:04	1
Bromoform	0.59	U	1.0	0.59	ug/L			11/03/23 13:04	1
Bromomethane	3.7	U	5.0	3.7	ug/L			11/03/23 13:04	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			11/03/23 13:04	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			11/03/23 13:04	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			11/03/23 13:04	1
Chloroethane	4.6	U J3	5.0	4.6	ug/L			11/03/23 13:04	1
Chloroform	0.27	U	1.0	0.27	ug/L			11/03/23 13:04	1
Chloromethane	0.54	U	1.0	0.54	ug/L			11/03/23 13:04	1
cis-1,2-Dichloroethene	**13**		1.0	0.25	ug/L			11/03/23 13:04	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			11/03/23 13:04	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			11/03/23 13:04	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			11/03/23 13:04	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			11/03/23 13:04	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			11/03/23 13:04	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			11/03/23 13:04	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			11/03/23 13:04	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			11/03/23 13:04	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			11/03/23 13:04	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			11/03/23 13:04	1
o-Xylene	0.26	U	1.0	0.26	ug/L			11/03/23 13:04	1
Styrene	0.27	U	1.0	0.27	ug/L			11/03/23 13:04	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			11/03/23 13:04	1
Toluene	0.25	U	1.0	0.25	ug/L			11/03/23 13:04	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			11/03/23 13:04	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			11/03/23 13:04	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			11/03/23 13:04	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			11/03/23 13:04	1
Vinyl chloride	**29**		1.0	0.40	ug/L			11/03/23 13:04	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/03/23 13:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*79*		*60 - 124*		*11/03/23 13:04*	*1*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*11/03/23 13:04*	*1*
Dibromofluoromethane (Surr)	*107*		*70 - 130*		*11/03/23 13:04*	*1*
Toluene-d8 (Surr)	*110*		*70 - 130*		*11/03/23 13:04*	*1*

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-29481-1
SDG: 670-29481-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(60-124)	(70-130)	(70-130)	(70-130)
670-29481-1	LC34-DPT0952-043.0-20231026	96	104	88	88
670-29481-2	LC34-DPT0952-038.0-20231026	100	91	99	96
670-29481-3	LC34-DPT0943-043.0-20231026	92	91	89	101
670-29481-4	LC34-DPT0943-38.0-20231026	86	108	113	104
670-29481-5	LC34-DPT0944-043.0-20231026	82	100	101	105
670-29481-6	LC34-DPT0944-038.0-20231026	87	109	104	104
670-29481-7	LC34-DPT0949-043.0-20231026	83	105	101	104
670-29481-8	LC34-DPT0949-038.0-20231026	81	101	98	102
670-29481-9	LC34-DPT0946-043.0-20231027	79	104	113	108
670-29481-10	LC34-DPT0946-038.0-20231027	80	102	108	113
670-29481-11	LC34-DPT0995-043.0-20231027	81	101	110	112
670-29481-12	LC34-DPT0995-038.0-20231027	76	99	109	109
670-29481-13	LC34-DPT0996-043.0-20231027	79	102	113	111
670-29481-14	LC34-DPT0996-038.0-20231027	88	103	112	104
670-29481-14 - DL	LC34-DPT0996-038.0-20231027	81	101	113	112
670-29481-15	LC34-DPT0998-032.0-20231027	81	101	124	109
670-29481-16	LC34-DPT0998-025.0-20231027	86	97	119	96
670-29481-17	LC34-DPT0998-018.0-20231027	79	103	107	110
LCS 680-806030/4	Lab Control Sample	98	111	94	101
LCS 680-806132/5	Lab Control Sample	102	120	100	103
LCS 680-806222/3	Lab Control Sample	106	100	115	106
LCSD 680-806030/5	Lab Control Sample Dup	99	114	94	102
LCSD 680-806132/6	Lab Control Sample Dup	100	109	99	100
LCSD 680-806222/4	Lab Control Sample Dup	107	103	114	105
MB 680-806030/8	Method Blank	89	102	88	101
MB 680-806132/9	Method Blank	87	104	101	102
MB 680-806222/7	Method Blank	82	100	112	98

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 680-806030/8
Matrix: Water
Analysis Batch: 806030

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			11/02/23 14:04	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			11/02/23 14:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			11/02/23 14:04	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			11/02/23 14:04	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			11/02/23 14:04	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			11/02/23 14:04	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			11/02/23 14:04	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			11/02/23 14:04	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			11/02/23 14:04	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/02/23 14:04	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			11/02/23 14:04	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			11/02/23 14:04	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/02/23 14:04	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/02/23 14:04	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			11/02/23 14:04	1
2-Hexanone	3.2	U	10	3.2	ug/L			11/02/23 14:04	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			11/02/23 14:04	1
Acetone	3.7	U	10	3.7	ug/L			11/02/23 14:04	1
Benzene	0.27	U	1.0	0.27	ug/L			11/02/23 14:04	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			11/02/23 14:04	1
Bromoform	0.59	U	1.0	0.59	ug/L			11/02/23 14:04	1
Bromomethane	3.7	U	5.0	3.7	ug/L			11/02/23 14:04	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			11/02/23 14:04	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			11/02/23 14:04	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			11/02/23 14:04	1
Chloroethane	4.6	U	5.0	4.6	ug/L			11/02/23 14:04	1
Chloroform	0.27	U	1.0	0.27	ug/L			11/02/23 14:04	1
Chloromethane	0.54	U	1.0	0.54	ug/L			11/02/23 14:04	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			11/02/23 14:04	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			11/02/23 14:04	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			11/02/23 14:04	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			11/02/23 14:04	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			11/02/23 14:04	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			11/02/23 14:04	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			11/02/23 14:04	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			11/02/23 14:04	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			11/02/23 14:04	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			11/02/23 14:04	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			11/02/23 14:04	1
o-Xylene	0.26	U	1.0	0.26	ug/L			11/02/23 14:04	1
Styrene	0.27	U	1.0	0.27	ug/L			11/02/23 14:04	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			11/02/23 14:04	1
Toluene	0.25	U	1.0	0.25	ug/L			11/02/23 14:04	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			11/02/23 14:04	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			11/02/23 14:04	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			11/02/23 14:04	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			11/02/23 14:04	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			11/02/23 14:04	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-806030/8
Matrix: Water
Analysis Batch: 806030

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/02/23 14:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*60 - 124*		*11/02/23 14:04*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*11/02/23 14:04*	*1*
Dibromofluoromethane (Surr)	*88*		*70 - 130*		*11/02/23 14:04*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*11/02/23 14:04*	*1*

Lab Sample ID: LCS 680-806030/4
Matrix: Water
Analysis Batch: 806030

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	45.9		ug/L		92	70 - 130
1,1,2,2-Tetrachloroethane	50.0	65.8	J3	ug/L		132	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	51.3		ug/L		103	63 - 141
1,1,2-Trichloroethane	50.0	50.8		ug/L		102	70 - 130
1,1-Dichloroethane	50.0	51.2		ug/L		102	70 - 130
1,1-Dichloroethene	50.0	54.6		ug/L		109	70 - 130
1,2,4-Trichlorobenzene	50.0	54.3		ug/L		109	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	52.3		ug/L		105	70 - 130
1,2-Dibromoethane (EDB)	50.0	52.1		ug/L		104	70 - 130
1,2-Dichlorobenzene	50.0	53.4		ug/L		107	70 - 130
1,2-Dichloroethane	50.0	52.2		ug/L		104	70 - 130
1,2-Dichloropropane	50.0	48.9		ug/L		98	70 - 130
1,3-Dichlorobenzene	50.0	56.3		ug/L		113	70 - 130
1,4-Dichlorobenzene	50.0	55.4		ug/L		111	70 - 130
2-Butanone (MEK)	250	338	J3	ug/L		135	69 - 120
2-Hexanone	250	337	J3	ug/L		135	70 - 130
4-Methyl-2-pentanone	250	307	J3	ug/L		123	68 - 120
Acetone	250	366	J3	ug/L		147	67 - 120
Benzene	50.0	48.1		ug/L		96	70 - 130
Bromodichloromethane	50.0	48.0		ug/L		96	70 - 130
Bromoform	50.0	63.6		ug/L		127	69 - 129
Bromomethane	50.0	42.3		ug/L		85	28 - 192
Carbon disulfide	50.0	54.9		ug/L		110	70 - 130
Carbon tetrachloride	50.0	48.6		ug/L		97	70 - 130
Chlorobenzene	50.0	52.8		ug/L		106	70 - 130
Chloroethane	50.0	45.7		ug/L		91	31 - 213
Chloroform	50.0	49.6		ug/L		99	70 - 130
Chloromethane	50.0	48.2		ug/L		96	59 - 127
cis-1,2-Dichloroethene	50.0	53.2		ug/L		106	70 - 130
cis-1,3-Dichloropropene	50.0	48.1		ug/L		96	70 - 130
Cyclohexane	50.0	49.3		ug/L		99	23 - 175
Dibromochloromethane	50.0	48.0		ug/L		96	70 - 130
Dichlorodifluoromethane	50.0	48.2		ug/L		96	70 - 130
Ethylbenzene	50.0	53.2		ug/L		106	70 - 130
Isopropylbenzene	50.0	56.5		ug/L		113	70 - 130

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-806030/4
Matrix: Water
Analysis Batch: 806030

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
m,p-Xylenes			50.0	54.7		ug/L		109	70 - 130		
Methyl acetate			100	134	J3	ug/L		134	67 - 120		
Methyl tert-butyl ether			50.0	57.4		ug/L		115	70 - 130		
Methylene Chloride			50.0	52.2		ug/L		104	70 - 130		
o-Xylene			50.0	55.8		ug/L		112	70 - 130		
Styrene			50.0	56.8		ug/L		114	70 - 130		
Tetrachloroethene			50.0	50.6		ug/L		101	70 - 130		
Toluene			50.0	48.1		ug/L		96	70 - 130		
trans-1,2-Dichloroethene			50.0	55.2		ug/L		110	70 - 130		
trans-1,3-Dichloropropene			50.0	46.6		ug/L		93	70 - 130		
Trichloroethene			50.0	47.0		ug/L		94	70 - 130		
Trichlorofluoromethane			50.0	37.7		ug/L		75	63 - 142		
Vinyl chloride			50.0	45.1		ug/L		90	66 - 129		
Xylenes, Total			100	111		ug/L		111	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*60 - 124*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*
Dibromofluoromethane (Surr)	*94*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 680-806030/5
Matrix: Water
Analysis Batch: 806030

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane			50.0	45.0		ug/L		90	70 - 130	2	30
1,1,2,2-Tetrachloroethane			50.0	67.1	J3	ug/L		134	70 - 130	2	30
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	44.5		ug/L		89	63 - 141	14	30
1,1,2-Trichloroethane			50.0	51.5		ug/L		103	70 - 130	1	30
1,1-Dichloroethane			50.0	46.4		ug/L		93	70 - 130	10	30
1,1-Dichloroethene			50.0	47.6		ug/L		95	70 - 130	14	20
1,2,4-Trichlorobenzene			50.0	50.8		ug/L		102	70 - 130	7	30
1,2-Dibromo-3-Chloropropane			50.0	51.2		ug/L		102	70 - 130	2	30
1,2-Dibromoethane (EDB)			50.0	52.0		ug/L		104	70 - 130	0	30
1,2-Dichlorobenzene			50.0	53.5		ug/L		107	70 - 130	0	30
1,2-Dichloroethane			50.0	52.5		ug/L		105	70 - 130	0	50
1,2-Dichloropropane			50.0	48.9		ug/L		98	70 - 130	0	20
1,3-Dichlorobenzene			50.0	56.9		ug/L		114	70 - 130	1	30
1,4-Dichlorobenzene			50.0	55.4		ug/L		111	70 - 130	0	30
2-Butanone (MEK)			250	314	J3	ug/L		125	69 - 120	8	30
2-Hexanone			250	335	J3	ug/L		134	70 - 130	1	20
4-Methyl-2-pentanone			250	303	J3	ug/L		121	68 - 120	1	30
Acetone			250	325	J3	ug/L		130	67 - 120	12	30
Benzene			50.0	47.8		ug/L		96	70 - 130	1	30
Bromodichloromethane			50.0	48.7		ug/L		97	70 - 130	1	30
Bromoform			50.0	65.6	J3	ug/L		131	69 - 129	3	30
Bromomethane			50.0	41.3		ug/L		83	28 - 192	2	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-806030/5
Matrix: Water
Analysis Batch: 806030

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon disulfide	50.0	48.5		ug/L		97	70 - 130	13	30
Carbon tetrachloride	50.0	47.4		ug/L		95	70 - 130	2	30
Chlorobenzene	50.0	53.4		ug/L		107	70 - 130	1	30
Chloroethane	50.0	43.2		ug/L		86	31 - 213	6	30
Chloroform	50.0	48.8		ug/L		98	70 - 130	2	30
Chloromethane	50.0	46.6		ug/L		93	59 - 127	3	30
cis-1,2-Dichloroethene	50.0	49.6		ug/L		99	70 - 130	7	30
cis-1,3-Dichloropropene	50.0	48.2		ug/L		96	70 - 130	0	20
Cyclohexane	50.0	47.9		ug/L		96	23 - 175	3	30
Dibromochloromethane	50.0	48.9		ug/L		98	70 - 130	2	30
Dichlorodifluoromethane	50.0	46.6		ug/L		93	70 - 130	3	40
Ethylbenzene	50.0	53.1		ug/L		106	70 - 130	0	20
Isopropylbenzene	50.0	56.0		ug/L		112	70 - 130	1	30
m,p-Xylenes	50.0	54.0		ug/L		108	70 - 130	1	30
Methyl acetate	100	121	J3	ug/L		121	67 - 120	10	30
Methyl tert-butyl ether	50.0	52.5		ug/L		105	70 - 130	9	30
Methylene Chloride	50.0	48.5		ug/L		97	70 - 130	7	30
o-Xylene	50.0	55.1		ug/L		110	70 - 130	1	30
Styrene	50.0	55.4		ug/L		111	70 - 130	2	30
Tetrachloroethene	50.0	49.8		ug/L		100	70 - 130	2	30
Toluene	50.0	48.5		ug/L		97	70 - 130	1	30
trans-1,2-Dichloroethene	50.0	49.7		ug/L		99	70 - 130	11	30
trans-1,3-Dichloropropene	50.0	46.9		ug/L		94	70 - 130	1	30
Trichloroethene	50.0	47.2		ug/L		94	70 - 130	1	30
Trichlorofluoromethane	50.0	35.0		ug/L		70	63 - 142	7	30
Vinyl chloride	50.0	43.0		ug/L		86	66 - 129	5	30
Xylenes, Total	100	109		ug/L		109	70 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*60 - 124*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*
Dibromofluoromethane (Surr)	*94*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*

Lab Sample ID: MB 680-806132/9
Matrix: Water
Analysis Batch: 806132

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			11/02/23 20:20	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			11/02/23 20:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			11/02/23 20:20	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			11/02/23 20:20	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			11/02/23 20:20	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			11/02/23 20:20	1
1,2,4-Trichlorobenzene	0.673	I	5.0	0.53	ug/L			11/02/23 20:20	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			11/02/23 20:20	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			11/02/23 20:20	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-806132/9
Matrix: Water
Analysis Batch: 806132

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/02/23 20:20	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			11/02/23 20:20	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			11/02/23 20:20	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/02/23 20:20	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/02/23 20:20	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			11/02/23 20:20	1
2-Hexanone	3.2	U	10	3.2	ug/L			11/02/23 20:20	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			11/02/23 20:20	1
Acetone	3.7	U	10	3.7	ug/L			11/02/23 20:20	1
Benzene	0.27	U	1.0	0.27	ug/L			11/02/23 20:20	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			11/02/23 20:20	1
Bromoform	0.59	U	1.0	0.59	ug/L			11/02/23 20:20	1
Bromomethane	3.7	U	5.0	3.7	ug/L			11/02/23 20:20	1
Carbon disulfide	0.43	U	2.0	0.43	ug/L			11/02/23 20:20	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			11/02/23 20:20	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			11/02/23 20:20	1
Chloroethane	4.6	U	5.0	4.6	ug/L			11/02/23 20:20	1
Chloroform	0.27	U	1.0	0.27	ug/L			11/02/23 20:20	1
Chloromethane	0.54	U	1.0	0.54	ug/L			11/02/23 20:20	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			11/02/23 20:20	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			11/02/23 20:20	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			11/02/23 20:20	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			11/02/23 20:20	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			11/02/23 20:20	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			11/02/23 20:20	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			11/02/23 20:20	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			11/02/23 20:20	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			11/02/23 20:20	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			11/02/23 20:20	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			11/02/23 20:20	1
o-Xylene	0.26	U	1.0	0.26	ug/L			11/02/23 20:20	1
Styrene	0.27	U	1.0	0.27	ug/L			11/02/23 20:20	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			11/02/23 20:20	1
Toluene	0.25	U	1.0	0.25	ug/L			11/02/23 20:20	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			11/02/23 20:20	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			11/02/23 20:20	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			11/02/23 20:20	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			11/02/23 20:20	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			11/02/23 20:20	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/02/23 20:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*87*		*60 - 124*		*11/02/23 20:20*	*1*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*11/02/23 20:20*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*11/02/23 20:20*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*11/02/23 20:20*	*1*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-806132/5
Matrix: Water
Analysis Batch: 806132

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	47.6		ug/L		95	70 - 130
1,1,2,2-Tetrachloroethane	50.0	60.9		ug/L		122	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	45.3		ug/L		91	63 - 141
1,1,2-Trichloroethane	50.0	51.4		ug/L		103	70 - 130
1,1-Dichloroethane	50.0	48.1		ug/L		96	70 - 130
1,1-Dichloroethene	50.0	43.2		ug/L		86	70 - 130
1,2,4-Trichlorobenzene	50.0	54.5		ug/L		109	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	68.3	J3	ug/L		137	70 - 130
1,2-Dibromoethane (EDB)	50.0	50.5		ug/L		101	70 - 130
1,2-Dichlorobenzene	50.0	56.1		ug/L		112	70 - 130
1,2-Dichloroethane	50.0	49.5		ug/L		99	70 - 130
1,2-Dichloropropane	50.0	48.4		ug/L		97	70 - 130
1,3-Dichlorobenzene	50.0	55.3		ug/L		111	70 - 130
1,4-Dichlorobenzene	50.0	56.2		ug/L		112	70 - 130
2-Butanone (MEK)	250	261		ug/L		104	69 - 120
2-Hexanone	250	311		ug/L		125	70 - 130
4-Methyl-2-pentanone	250	284		ug/L		113	68 - 120
Acetone	250	262		ug/L		105	67 - 120
Benzene	50.0	47.2		ug/L		94	70 - 130
Bromodichloromethane	50.0	48.8		ug/L		98	70 - 130
Bromoform	50.0	48.9		ug/L		98	69 - 129
Bromomethane	50.0	36.1		ug/L		72	28 - 192
Carbon disulfide	50.0	44.3		ug/L		89	70 - 130
Carbon tetrachloride	50.0	49.1		ug/L		98	70 - 130
Chlorobenzene	50.0	53.8		ug/L		108	70 - 130
Chloroethane	50.0	31.7		ug/L		63	31 - 213
Chloroform	50.0	49.9		ug/L		100	70 - 130
Chloromethane	50.0	46.9		ug/L		94	59 - 127
cis-1,2-Dichloroethene	50.0	49.5		ug/L		99	70 - 130
cis-1,3-Dichloropropene	50.0	48.5		ug/L		97	70 - 130
Cyclohexane	50.0	46.0		ug/L		92	23 - 175
Dibromochloromethane	50.0	45.2		ug/L		90	70 - 130
Dichlorodifluoromethane	50.0	43.4		ug/L		87	70 - 130
Ethylbenzene	50.0	53.3		ug/L		107	70 - 130
Isopropylbenzene	50.0	53.9		ug/L		108	70 - 130
m,p-Xylenes	50.0	54.9		ug/L		110	70 - 130
Methyl acetate	100	104		ug/L		104	67 - 120
Methyl tert-butyl ether	50.0	49.2		ug/L		98	70 - 130
Methylene Chloride	50.0	47.6		ug/L		95	70 - 130
o-Xylene	50.0	51.8		ug/L		104	70 - 130
Styrene	50.0	54.2		ug/L		108	70 - 130
Tetrachloroethene	50.0	49.5		ug/L		99	70 - 130
Toluene	50.0	49.1		ug/L		98	70 - 130
trans-1,2-Dichloroethene	50.0	48.2		ug/L		96	70 - 130
trans-1,3-Dichloropropene	50.0	51.1		ug/L		102	70 - 130
Trichloroethene	50.0	48.8		ug/L		98	70 - 130
Trichlorofluoromethane	50.0	29.7	J3	ug/L		59	63 - 142
Vinyl chloride	50.0	42.7		ug/L		85	66 - 129

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-806132/5
Matrix: Water
Analysis Batch: 806132

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Xylenes, Total			100	107		ug/L		107	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 124*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*
Dibromofluoromethane (Surr)	*100*		*70 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*

Lab Sample ID: LCSD 680-806132/6
Matrix: Water
Analysis Batch: 806132

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane			50.0	47.2		ug/L		94	70 - 130	1	30
1,1,2,2-Tetrachloroethane			50.0	56.2		ug/L		112	70 - 130	8	30
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	47.1		ug/L		94	63 - 141	4	30
1,1,2-Trichloroethane			50.0	49.1		ug/L		98	70 - 130	4	30
1,1-Dichloroethane			50.0	47.3		ug/L		95	70 - 130	2	30
1,1-Dichloroethene			50.0	43.7		ug/L		87	70 - 130	1	20
1,2,4-Trichlorobenzene			50.0	56.8		ug/L		114	70 - 130	4	30
1,2-Dibromo-3-Chloropropane			50.0	66.4	J3	ug/L		133	70 - 130	3	30
1,2-Dibromoethane (EDB)			50.0	47.6		ug/L		95	70 - 130	6	30
1,2-Dichlorobenzene			50.0	56.0		ug/L		112	70 - 130	0	30
1,2-Dichloroethane			50.0	49.9		ug/L		100	70 - 130	1	50
1,2-Dichloropropane			50.0	48.6		ug/L		97	70 - 130	0	20
1,3-Dichlorobenzene			50.0	55.0		ug/L		110	70 - 130	1	30
1,4-Dichlorobenzene			50.0	55.6		ug/L		111	70 - 130	1	30
2-Butanone (MEK)			250	264		ug/L		106	69 - 120	1	30
2-Hexanone			250	312		ug/L		125	70 - 130	0	20
4-Methyl-2-pentanone			250	282		ug/L		113	68 - 120	1	30
Acetone			250	272		ug/L		109	67 - 120	4	30
Benzene			50.0	47.2		ug/L		94	70 - 130	0	30
Bromodichloromethane			50.0	47.4		ug/L		95	70 - 130	3	30
Bromoform			50.0	45.8		ug/L		92	69 - 129	6	30
Bromomethane			50.0	36.6		ug/L		73	28 - 192	1	30
Carbon disulfide			50.0	45.1		ug/L		90	70 - 130	2	30
Carbon tetrachloride			50.0	49.2		ug/L		98	70 - 130	0	30
Chlorobenzene			50.0	50.5		ug/L		101	70 - 130	6	30
Chloroethane			50.0	33.9		ug/L		68	31 - 213	7	30
Chloroform			50.0	50.0		ug/L		100	70 - 130	0	30
Chloromethane			50.0	46.6		ug/L		93	59 - 127	1	30
cis-1,2-Dichloroethene			50.0	50.7		ug/L		101	70 - 130	2	30
cis-1,3-Dichloropropene			50.0	47.0		ug/L		94	70 - 130	3	20
Cyclohexane			50.0	46.9		ug/L		94	23 - 175	2	30
Dibromochloromethane			50.0	43.3		ug/L		87	70 - 130	4	30
Dichlorodifluoromethane			50.0	43.6		ug/L		87	70 - 130	1	40
Ethylbenzene			50.0	49.3		ug/L		99	70 - 130	8	20
Isopropylbenzene			50.0	49.7		ug/L		99	70 - 130	8	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-806132/6
Matrix: Water
Analysis Batch: 806132

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m,p-Xylenes			50.0	49.9		ug/L		100	70 - 130	10	30
Methyl acetate			100	105		ug/L		105	67 - 120	1	30
Methyl tert-butyl ether			50.0	49.3		ug/L		99	70 - 130	0	30
Methylene Chloride			50.0	47.5		ug/L		95	70 - 130	0	30
o-Xylene			50.0	48.4		ug/L		97	70 - 130	7	30
Styrene			50.0	49.5		ug/L		99	70 - 130	9	30
Tetrachloroethene			50.0	48.5		ug/L		97	70 - 130	2	30
Toluene			50.0	48.7		ug/L		97	70 - 130	1	30
trans-1,2-Dichloroethene			50.0	48.3		ug/L		97	70 - 130	0	30
trans-1,3-Dichloropropene			50.0	50.3		ug/L		101	70 - 130	1	30
Trichloroethene			50.0	48.9		ug/L		98	70 - 130	0	30
Trichlorofluoromethane			50.0	29.6	J3	ug/L		59	63 - 142	0	30
Vinyl chloride			50.0	44.0		ug/L		88	66 - 129	3	30
Xylenes, Total			100	98.3		ug/L		98	70 - 130	8	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 124*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
Dibromofluoromethane (Surr)	*99*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

Lab Sample ID: MB 680-806222/7
Matrix: Water
Analysis Batch: 806222

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.21	U	1.0	0.21	ug/L			11/03/23 11:31	1
1,1,2,2-Tetrachloroethane	0.40	U	1.0	0.40	ug/L			11/03/23 11:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.23	U	1.0	0.23	ug/L			11/03/23 11:31	1
1,1,2-Trichloroethane	0.32	U	1.0	0.32	ug/L			11/03/23 11:31	1
1,1-Dichloroethane	0.33	U	1.0	0.33	ug/L			11/03/23 11:31	1
1,1-Dichloroethene	0.33	U	1.0	0.33	ug/L			11/03/23 11:31	1
1,2,4-Trichlorobenzene	0.53	U	5.0	0.53	ug/L			11/03/23 11:31	1
1,2-Dibromo-3-Chloropropane	1.8	U	5.0	1.8	ug/L			11/03/23 11:31	1
1,2-Dibromoethane (EDB)	0.33	U	1.0	0.33	ug/L			11/03/23 11:31	1
1,2-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/03/23 11:31	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			11/03/23 11:31	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			11/03/23 11:31	1
1,3-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/03/23 11:31	1
1,4-Dichlorobenzene	0.31	U	1.0	0.31	ug/L			11/03/23 11:31	1
2-Butanone (MEK)	6.4	U	10	6.4	ug/L			11/03/23 11:31	1
2-Hexanone	3.2	U	10	3.2	ug/L			11/03/23 11:31	1
4-Methyl-2-pentanone	2.7	U	10	2.7	ug/L			11/03/23 11:31	1
Acetone	3.7	U	10	3.7	ug/L			11/03/23 11:31	1
Benzene	0.27	U	1.0	0.27	ug/L			11/03/23 11:31	1
Bromodichloromethane	0.25	U	1.0	0.25	ug/L			11/03/23 11:31	1
Bromoform	0.59	U	1.0	0.59	ug/L			11/03/23 11:31	1
Bromomethane	3.7	U	5.0	3.7	ug/L			11/03/23 11:31	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 680-806222/7
Matrix: Water
Analysis Batch: 806222

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	0.43	U	2.0	0.43	ug/L			11/03/23 11:31	1
Carbon tetrachloride	0.30	U	1.0	0.30	ug/L			11/03/23 11:31	1
Chlorobenzene	0.15	U	1.0	0.15	ug/L			11/03/23 11:31	1
Chloroethane	4.6	U	5.0	4.6	ug/L			11/03/23 11:31	1
Chloroform	0.27	U	1.0	0.27	ug/L			11/03/23 11:31	1
Chloromethane	0.54	U	1.0	0.54	ug/L			11/03/23 11:31	1
cis-1,2-Dichloroethene	0.25	U	1.0	0.25	ug/L			11/03/23 11:31	1
cis-1,3-Dichloropropene	0.26	U	1.0	0.26	ug/L			11/03/23 11:31	1
Cyclohexane	0.28	U	1.0	0.28	ug/L			11/03/23 11:31	1
Dibromochloromethane	0.39	U	1.0	0.39	ug/L			11/03/23 11:31	1
Dichlorodifluoromethane	0.36	U	1.0	0.36	ug/L			11/03/23 11:31	1
Ethylbenzene	0.20	U	1.0	0.20	ug/L			11/03/23 11:31	1
Isopropylbenzene	0.26	U	1.0	0.26	ug/L			11/03/23 11:31	1
m,p-Xylenes	0.49	U	1.0	0.49	ug/L			11/03/23 11:31	1
Methyl acetate	3.2	U	5.0	3.2	ug/L			11/03/23 11:31	1
Methyl tert-butyl ether	0.81	U	5.0	0.81	ug/L			11/03/23 11:31	1
Methylene Chloride	3.2	U	5.0	3.2	ug/L			11/03/23 11:31	1
o-Xylene	0.26	U	1.0	0.26	ug/L			11/03/23 11:31	1
Styrene	0.27	U	1.0	0.27	ug/L			11/03/23 11:31	1
Tetrachloroethene	0.35	U	1.0	0.35	ug/L			11/03/23 11:31	1
Toluene	0.25	U	1.0	0.25	ug/L			11/03/23 11:31	1
trans-1,2-Dichloroethene	0.34	U	1.0	0.34	ug/L			11/03/23 11:31	1
trans-1,3-Dichloropropene	0.23	U	1.0	0.23	ug/L			11/03/23 11:31	1
Trichloroethene	0.20	U	1.0	0.20	ug/L			11/03/23 11:31	1
Trichlorofluoromethane	0.33	U	1.0	0.33	ug/L			11/03/23 11:31	1
Vinyl chloride	0.40	U	1.0	0.40	ug/L			11/03/23 11:31	1
Xylenes, Total	0.23	U	1.0	0.23	ug/L			11/03/23 11:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*82*		*60 - 124*		*11/03/23 11:31*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*11/03/23 11:31*	*1*
Dibromofluoromethane (Surr)	*112*		*70 - 130*		*11/03/23 11:31*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*11/03/23 11:31*	*1*

Lab Sample ID: LCS 680-806222/3
Matrix: Water
Analysis Batch: 806222

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	48.1		ug/L		96	70 - 130
1,1,2,2-Tetrachloroethane	50.0	51.8		ug/L		104	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	49.7		ug/L		99	63 - 141
1,1,2-Trichloroethane	50.0	44.2		ug/L		88	70 - 130
1,1-Dichloroethane	50.0	51.6		ug/L		103	70 - 130
1,1-Dichloroethene	50.0	50.2		ug/L		100	70 - 130
1,2,4-Trichlorobenzene	50.0	58.8		ug/L		118	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	53.4		ug/L		107	70 - 130
1,2-Dibromoethane (EDB)	50.0	45.0		ug/L		90	70 - 130

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 680-806222/3
Matrix: Water
Analysis Batch: 806222

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichlorobenzene	50.0	54.8		ug/L		110	70 - 130
1,2-Dichloroethane	50.0	51.7		ug/L		103	70 - 130
1,2-Dichloropropane	50.0	43.1		ug/L		86	70 - 130
1,3-Dichlorobenzene	50.0	53.6		ug/L		107	70 - 130
1,4-Dichlorobenzene	50.0	53.6		ug/L		107	70 - 130
2-Butanone (MEK)	250	192		ug/L		77	69 - 120
2-Hexanone	250	244		ug/L		98	70 - 130
4-Methyl-2-pentanone	250	228		ug/L		91	68 - 120
Acetone	250	239		ug/L		95	67 - 120
Benzene	50.0	45.1		ug/L		90	70 - 130
Bromodichloromethane	50.0	45.8		ug/L		92	70 - 130
Bromoform	50.0	42.4		ug/L		85	69 - 129
Bromomethane	50.0	62.4		ug/L		125	28 - 192
Carbon disulfide	50.0	49.1		ug/L		98	70 - 130
Carbon tetrachloride	50.0	47.7		ug/L		95	70 - 130
Chlorobenzene	50.0	53.7		ug/L		107	70 - 130
Chloroethane	50.0	66.7		ug/L		133	31 - 213
Chloroform	50.0	54.3		ug/L		109	70 - 130
Chloromethane	50.0	55.1		ug/L		110	59 - 127
cis-1,2-Dichloroethene	50.0	55.5		ug/L		111	70 - 130
cis-1,3-Dichloropropene	50.0	43.4		ug/L		87	70 - 130
Cyclohexane	50.0	44.0		ug/L		88	23 - 175
Dibromochloromethane	50.0	42.8		ug/L		86	70 - 130
Dichlorodifluoromethane	50.0	56.4		ug/L		113	70 - 130
Ethylbenzene	50.0	56.2		ug/L		112	70 - 130
Isopropylbenzene	50.0	56.6		ug/L		113	70 - 130
m,p-Xylenes	50.0	57.6		ug/L		115	70 - 130
Methyl acetate	100	85.4		ug/L		85	67 - 120
Methyl tert-butyl ether	50.0	37.5		ug/L		75	70 - 130
Methylene Chloride	50.0	51.6		ug/L		103	70 - 130
o-Xylene	50.0	55.9		ug/L		112	70 - 130
Styrene	50.0	57.7		ug/L		115	70 - 130
Tetrachloroethene	50.0	49.6		ug/L		99	70 - 130
Toluene	50.0	51.1		ug/L		102	70 - 130
trans-1,2-Dichloroethene	50.0	52.6		ug/L		105	70 - 130
trans-1,3-Dichloropropene	50.0	45.5		ug/L		91	70 - 130
Trichloroethene	50.0	46.6		ug/L		93	70 - 130
Trichlorofluoromethane	50.0	61.5		ug/L		123	63 - 142
Vinyl chloride	50.0	53.3		ug/L		107	66 - 129
Xylenes, Total	100	114		ug/L		114	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*60 - 124*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
Dibromofluoromethane (Surr)	*115*		*70 - 130*
Toluene-d8 (Surr)	*106*		*70 - 130*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-806222/4
Matrix: Water
Analysis Batch: 806222

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane			50.0	48.0		ug/L		96	70 - 130	0	30
1,1,2,2-Tetrachloroethane			50.0	51.7		ug/L		103	70 - 130	0	30
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	47.6		ug/L		95	63 - 141	4	30
1,1,2-Trichloroethane			50.0	46.2		ug/L		92	70 - 130	4	30
1,1-Dichloroethane			50.0	53.0		ug/L		106	70 - 130	3	30
1,1-Dichloroethene			50.0	47.2		ug/L		94	70 - 130	6	20
1,2,4-Trichlorobenzene			50.0	53.9		ug/L		108	70 - 130	9	30
1,2-Dibromo-3-Chloropropane			50.0	53.5		ug/L		107	70 - 130	0	30
1,2-Dibromoethane (EDB)			50.0	45.9		ug/L		92	70 - 130	2	30
1,2-Dichlorobenzene			50.0	54.2		ug/L		108	70 - 130	1	30
1,2-Dichloroethane			50.0	52.4		ug/L		105	70 - 130	1	50
1,2-Dichloropropane			50.0	46.0		ug/L		92	70 - 130	7	20
1,3-Dichlorobenzene			50.0	52.4		ug/L		105	70 - 130	2	30
1,4-Dichlorobenzene			50.0	53.9		ug/L		108	70 - 130	0	30
2-Butanone (MEK)			250	203		ug/L		81	69 - 120	5	30
2-Hexanone			250	256		ug/L		103	70 - 130	5	20
4-Methyl-2-pentanone			250	235		ug/L		94	68 - 120	3	30
Acetone			250	249		ug/L		100	67 - 120	4	30
Benzene			50.0	46.0		ug/L		92	70 - 130	2	30
Bromodichloromethane			50.0	46.8		ug/L		94	70 - 130	2	30
Bromoform			50.0	42.4		ug/L		85	69 - 129	0	30
Bromomethane			50.0	49.3		ug/L		99	28 - 192	23	30
Carbon disulfide			50.0	39.5		ug/L		79	70 - 130	22	30
Carbon tetrachloride			50.0	48.9		ug/L		98	70 - 130	2	30
Chlorobenzene			50.0	52.2		ug/L		104	70 - 130	3	30
Chloroethane			50.0	47.1	J3	ug/L		94	31 - 213	34	30
Chloroform			50.0	55.0		ug/L		110	70 - 130	1	30
Chloromethane			50.0	43.8		ug/L		88	59 - 127	23	30
cis-1,2-Dichloroethene			50.0	56.0		ug/L		112	70 - 130	1	30
cis-1,3-Dichloropropene			50.0	43.4		ug/L		87	70 - 130	0	20
Cyclohexane			50.0	43.9		ug/L		88	23 - 175	0	30
Dibromochloromethane			50.0	41.8		ug/L		84	70 - 130	2	30
Dichlorodifluoromethane			50.0	44.9		ug/L		90	70 - 130	23	40
Ethylbenzene			50.0	53.1		ug/L		106	70 - 130	6	20
Isopropylbenzene			50.0	54.5		ug/L		109	70 - 130	4	30
m,p-Xylenes			50.0	57.0		ug/L		114	70 - 130	1	30
Methyl acetate			100	89.2		ug/L		89	67 - 120	4	30
Methyl tert-butyl ether			50.0	39.0		ug/L		78	70 - 130	4	30
Methylene Chloride			50.0	52.6		ug/L		105	70 - 130	2	30
o-Xylene			50.0	54.0		ug/L		108	70 - 130	3	30
Styrene			50.0	55.4		ug/L		111	70 - 130	4	30
Tetrachloroethene			50.0	50.2		ug/L		100	70 - 130	1	30
Toluene			50.0	52.0		ug/L		104	70 - 130	2	30
trans-1,2-Dichloroethene			50.0	52.0		ug/L		104	70 - 130	1	30
trans-1,3-Dichloropropene			50.0	47.7		ug/L		95	70 - 130	5	30
Trichloroethene			50.0	46.3		ug/L		93	70 - 130	1	30
Trichlorofluoromethane			50.0	47.1		ug/L		94	63 - 142	26	30
Vinyl chloride			50.0	40.9		ug/L		82	66 - 129	26	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 680-806222/4
Matrix: Water
Analysis Batch: 806222

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Xylenes, Total			100	111		ug/L		111	70 - 130	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*107*		*60 - 124*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
Dibromofluoromethane (Surr)	*114*		*70 - 130*
Toluene-d8 (Surr)	*105*		*70 - 130*

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-29481-1
SDG: 670-29481-1

GC/MS VOA

Analysis Batch: 806030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-29481-1	LC34-DPT0952-043.0-20231026	Total/NA	Water	8260D	
670-29481-2	LC34-DPT0952-038.0-20231026	Total/NA	Water	8260D	
670-29481-3	LC34-DPT0943-043.0- 20231026	Total/NA	Water	8260D	
MB 680-806030/8	Method Blank	Total/NA	Water	8260D	
LCS 680-806030/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-806030/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 806132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-29481-4	LC34-DPT0943-38.0-20231026	Total/NA	Water	8260D	
670-29481-5	LC34-DPT0944-043.0-20231026	Total/NA	Water	8260D	
670-29481-6	LC34-DPT0944-038.0-20231026	Total/NA	Water	8260D	
670-29481-7	LC34-DPT0949-043.0-20231026	Total/NA	Water	8260D	
670-29481-8	LC34-DPT0949-038.0-20231026	Total/NA	Water	8260D	
MB 680-806132/9	Method Blank	Total/NA	Water	8260D	
LCS 680-806132/5	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-806132/6	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 806222

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-29481-9	LC34-DPT0946-043.0-20231027	Total/NA	Water	8260D	
670-29481-10	LC34-DPT0946-038.0-20231027	Total/NA	Water	8260D	
670-29481-11	LC34-DPT0995-043.0-20231027	Total/NA	Water	8260D	
670-29481-12	LC34-DPT0995-038.0-20231027	Total/NA	Water	8260D	
670-29481-13	LC34-DPT0996-043.0-20231027	Total/NA	Water	8260D	
670-29481-14	LC34-DPT0996-038.0-20231027	Total/NA	Water	8260D	
670-29481-14 - DL	LC34-DPT0996-038.0-20231027	Total/NA	Water	8260D	
670-29481-15	LC34-DPT0998-032.0-20231027	Total/NA	Water	8260D	
670-29481-16	LC34-DPT0998-025.0-20231027	Total/NA	Water	8260D	
670-29481-17	LC34-DPT0998-018.0-20231027	Total/NA	Water	8260D	
MB 680-806222/7	Method Blank	Total/NA	Water	8260D	
LCS 680-806222/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 680-806222/4	Lab Control Sample Dup	Total/NA	Water	8260D	

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-29481-1
SDG: 670-29481-1

Client Sample ID: LC34-DPT0952-043.0-20231026
Lab Sample ID: 670-29481-1
Date Collected: 10/26/23 14:00
Matrix: Water
Date Received: 10/28/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	806030	Y1S	EET SAV	11/02/23 21:07

Client Sample ID: LC34-DPT0952-038.0-20231026
Lab Sample ID: 670-29481-2
Date Collected: 10/26/23 14:15
Matrix: Water
Date Received: 10/28/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	806030	Y1S	EET SAV	11/02/23 21:31

Client Sample ID: LC34-DPT0943-043.0- 20231026
Lab Sample ID: 670-29481-3
Date Collected: 10/26/23 14:55
Matrix: Water
Date Received: 10/28/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	806030	Y1S	EET SAV	11/02/23 21:54

Client Sample ID: LC34-DPT0943-38.0-20231026
Lab Sample ID: 670-29481-4
Date Collected: 10/26/23 15:10
Matrix: Water
Date Received: 10/28/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	806132	Y1S	EET SAV	11/02/23 20:58

Client Sample ID: LC34-DPT0944-043.0-20231026
Lab Sample ID: 670-29481-5
Date Collected: 10/26/23 15:50
Matrix: Water
Date Received: 10/28/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	806132	Y1S	EET SAV	11/02/23 21:17

Client Sample ID: LC34-DPT0944-038.0-20231026
Lab Sample ID: 670-29481-6
Date Collected: 10/26/23 16:05
Matrix: Water
Date Received: 10/28/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	806132	Y1S	EET SAV	11/02/23 21:36

Client Sample ID: LC34-DPT0949-043.0-20231026
Lab Sample ID: 670-29481-7
Date Collected: 10/26/23 16:45
Matrix: Water
Date Received: 10/28/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	806132	Y1S	EET SAV	11/02/23 21:55

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-29481-1
SDG: 670-29481-1

Client Sample ID: LC34-DPT0949-038.0-20231026
Lab Sample ID: 670-29481-8

Date Collected: 10/26/23 17:00
Matrix: Water
Date Received: 10/28/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	806132	Y1S	EET SAV	11/02/23 22:14

Client Sample ID: LC34-DPT0946-043.0-20231027
Lab Sample ID: 670-29481-9

Date Collected: 10/27/23 08:15
Matrix: Water
Date Received: 10/28/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	806222	Y1S	EET SAV	11/03/23 12:07

Client Sample ID: LC34-DPT0946-038.0-20231027
Lab Sample ID: 670-29481-10

Date Collected: 10/27/23 08:30
Matrix: Water
Date Received: 10/28/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	806222	Y1S	EET SAV	11/03/23 12:26

Client Sample ID: LC34-DPT0995-043.0-20231027
Lab Sample ID: 670-29481-11

Date Collected: 10/27/23 09:20
Matrix: Water
Date Received: 10/28/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		5	806222	Y1S	EET SAV	11/03/23 14:45

Client Sample ID: LC34-DPT0995-038.0-20231027
Lab Sample ID: 670-29481-12

Date Collected: 10/27/23 09:35
Matrix: Water
Date Received: 10/28/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		20	806222	Y1S	EET SAV	11/03/23 14:03

Client Sample ID: LC34-DPT0996-043.0-20231027
Lab Sample ID: 670-29481-13

Date Collected: 10/27/23 10:15
Matrix: Water
Date Received: 10/28/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		100	806222	Y1S	EET SAV	11/03/23 13:23

Client Sample ID: LC34-DPT0996-038.0-20231027
Lab Sample ID: 670-29481-14

Date Collected: 10/27/23 10:30
Matrix: Water
Date Received: 10/28/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		25	806222	Y1S	EET SAV	11/03/23 13:44
Total/NA	Analysis	8260D	DL	50	806222	Y1S	EET SAV	11/03/23 15:23

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-29481-1
SDG: 670-29481-1

Client Sample ID: LC34-DPT0998-032.0-20231027

Lab Sample ID: 670-29481-15

Date Collected: 10/27/23 11:25
Matrix: Water
Date Received: 10/28/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	806222	Y1S	EET SAV	11/03/23 12:45

Client Sample ID: LC34-DPT0998-025.0-20231027

Lab Sample ID: 670-29481-16

Date Collected: 10/27/23 11:40
Matrix: Water
Date Received: 10/28/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		10	806222	Y1S	EET SAV	11/03/23 14:24

Client Sample ID: LC34-DPT0998-018.0-20231027

Lab Sample ID: 670-29481-17

Date Collected: 10/27/23 11:55
Matrix: Water
Date Received: 10/28/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	806222	Y1S	EET SAV	11/03/23 13:04

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-29481-1
SDG: 670-29481-1

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87052	06-30-24

Method Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-29481-1
SDG: 670-29481-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET SAV
5030B	Purge and Trap	SW846	EET SAV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Sample Summary

Client: Tetra Tech, Inc.
Project/Site: NASA KSC LC34 DPT

Job ID: 670-29481-1
SDG: 670-29481-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
670-29481-1	LC34-DPT0952-043.0-20231026	Water	10/26/23 14:00	10/28/23 08:00
670-29481-2	LC34-DPT0952-038.0-20231026	Water	10/26/23 14:15	10/28/23 08:00
670-29481-3	LC34-DPT0943-043.0- 20231026	Water	10/26/23 14:55	10/28/23 08:00
670-29481-4	LC34-DPT0943-38.0-20231026	Water	10/26/23 15:10	10/28/23 08:00
670-29481-5	LC34-DPT0944-043.0-20231026	Water	10/26/23 15:50	10/28/23 08:00
670-29481-6	LC34-DPT0944-038.0-20231026	Water	10/26/23 16:05	10/28/23 08:00
670-29481-7	LC34-DPT0949-043.0-20231026	Water	10/26/23 16:45	10/28/23 08:00
670-29481-8	LC34-DPT0949-038.0-20231026	Water	10/26/23 17:00	10/28/23 08:00
670-29481-9	LC34-DPT0946-043.0-20231027	Water	10/27/23 08:15	10/28/23 08:00
670-29481-10	LC34-DPT0946-038.0-20231027	Water	10/27/23 08:30	10/28/23 08:00
670-29481-11	LC34-DPT0995-043.0-20231027	Water	10/27/23 09:20	10/28/23 08:00
670-29481-12	LC34-DPT0995-038.0-20231027	Water	10/27/23 09:35	10/28/23 08:00
670-29481-13	LC34-DPT0996-043.0-20231027	Water	10/27/23 10:15	10/28/23 08:00
670-29481-14	LC34-DPT0996-038.0-20231027	Water	10/27/23 10:30	10/28/23 08:00
670-29481-15	LC34-DPT0998-032.0-20231027	Water	10/27/23 11:25	10/28/23 08:00
670-29481-16	LC34-DPT0998-025.0-20231027	Water	10/27/23 11:40	10/28/23 08:00
670-29481-17	LC34-DPT0998-018.0-20231027	Water	10/27/23 11:55	10/28/23 08:00

Tetra Tech, Inc.

CHAIN OF CUSTODY | NUMBER No. 3802 | PAGE 1 OF 2

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G08985	KSC-LC34	Mark Jonner	(412) 921-8622	Eurofins - Kaitlin Dylnicki
SAMPLERS (SIGNATURE)		**FIELD OPERATIONS LEADER**	**PHONE NUMBER**	**ADDRESS**
-Chuck Scrden		Chuck Scrden	(321) 591-7580	4818 Newburyport Ave.
		CARRIER/WAYBILL NUMBER		**CITY, STATE**
				Altamonte Springs, FL

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2023	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)		PRESERVATIVE USED		TYPE OF ANALYSIS		COMMENTS
									G	G	HCl/4°C	4°C	8260D-(MOD) NASA LC34 Custom List	8260D-(MOD) NASA LC34 Custom List	
10/26	1400	LC34-DPT0952-048.0-20231026	100	41	45	GW	G	4	X	X					
	1415	LC34-DPT0952-038.0-20231026	100	36	40										
	1455	LC34-DPT0943-043.0-20231026	89	41	45										
	1510	LC34-DPT0943-038.0-20231026	89	36	40										
	1550	LC34-DPT0944-043.0-20231026	88	41	45										
	1605	LC34-DPT0944-038.0-20231026	88	36	40										
	1645	LC34-DPT0949-043.0-20231026	97	41	45										
10/26	1700	LC34-DPT0949-038.0-20231026	97	36	40										
10/27	0815	LC34-DPT0946-043.0-20231027	85	41	45										
	0830	LC34-DPT0946-038.0-20231027	85	36	~~35~~ 40										
	0920	LC34-DPT0995-043.0-20231027	23	41	45										
	0935	LC34-DPT0995-038.0-20231027	23	36	40										
10/27	1015	LC34-DPT0996-043.0-20231027	16	41	45	GW	G	4	X	X					



1. RELINQUISHED BY	DATE	TIME	1. RECEIVED BY	DATE	TIME
	10/27/23	1400	MC	10/28/23	805
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS 2.7/2.5

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY) 4/02R FORM NO. TtNUS-001

Tetra Tech, Inc.

CHAIN OF CUSTODY | NUMBER No. 3803 | PAGE 2 OF 2

PROJECT NO: 112G08985	FACILITY: KSC-LC34	PROJECT MANAGER Mark Sonner	PHONE NUMBER (412) 921-8622	LABORATORY NAME AND CONTACT: Eurofins — Kaitlin Dylnick
SAMPLERS (SIGNATURE) - Chuck Sorden		FIELD OPERATIONS LEADER Chuck Sorden	PHONE NUMBER (321) 591-7580	ADDRESS 481 Newburyport Ave.
		CARRIER/WAYBILL NUMBER		CITY, STATE Altamonte Springs, FL

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2023	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G): G G	PRESERVATIVE USED: HCl / 4°C 4°C	TYPE OF ANALYSIS: 8260D-(MOD) NASA LC34 Custom List; 8260D-(MOD) NASA LC34 Custom List	COMMENTS
10/27	1030	LC34-DPT0996-038.0-20231027	16	36	40	GW	G	4	X	X		
"	1125	LC34-DPT0998-032.0-20231027	148	30	34	"	"	"	"	"		
"	1140	LC34-DPT0998-025.0-20231027	148	23	27	"	"	"	"	"		
10/27	1155	LC34-DPT0998-018.0-20231027	148	16	20	GW	G	4	X	X		

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	10/27/23	1400	1. RECEIVED BY ML	10/25/23	8:00
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS 2.7/2.5

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY) 4/02R

Eurofins Orlando
481 Newburyport Avenue
Altamonte Springs, FL 32701
Phone: 407-339-5984 Fax: 407-260-6110

Chain of Custody Record

eurofins

Client Information (Sub Contract Lab)	Sampler	Lab PM: Dylnicki, Kaitlin	Carrier Tracking No(s):	COC No: 670-17848.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: kaitlin.dylnicki@et.eurofinsus.com	State of Origin: Florida	Page: Page 1 of 2
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP Florida		Job #: 670-29481 1
Address: 5102 LaRoche Avenue,	Due Date Requested: 11/9/2023			
City: Savannah	TAT Requested (days):			
State, Zip: GA, 31404				
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	PO #:			
Email:	WO #:			
Project Name: NASA KSC LC34 DPT	Project #: 67001156			
Site:	SSOW#:			

Preservation Codes:
A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify)
Other:

Analysis Requested

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D/5030B (MOD) NASA LC34 Custom	8260Di5030B_LIP (MOD) NASA LC34 Custom	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
LC34-DPT0952-043.0-20231026 (670-29481-1)	10/26/23	14:00 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0952-038.0-20231026 (670-29481-2)	10/26/23	14:15 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0943-043.0- 20231026 (670-29481-3)	10/26/23	14:55 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0943-38.0-20231026 (670-29481-4)	10/26/23	15:10 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0944-043.0-20231026 (670-29481-5)	10/26/23	15:50 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0944-038.0-20231026 (670-29481-6)	10/26/23	16:05 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0949-043.0-20231026 (670-29481-7)	10/26/23	16:45 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0949-038.0-20231026 (670-29481-8)	10/26/23	17:00 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP
LC34-DPT0946-043.0-20231027 (670-29481-9)	10/27/23	08:15 Eastern		Water			X	X	4	use caution site high in TCE. unp incase of HDSP, use caution site high in TCE. UNP

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I II, III IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 10/30 1200	Company	Received by: TH	Date/Time: 10-31-23	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 10 18	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks: 28-3-1

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 670-29481-1
SDG Number: 670-29481-1

Login Number: 29481
List Number: 1
Creator: Clerisier, Meline

List Source: Eurofins Orlando

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 670-29481-1
SDG Number: 670-29481-1

Login Number: 29481
List Number: 2
Creator: Harley, Tynisha

List Source: Eurofins Savannah
List Creation: 10/31/23 01:06 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

APPENDIX D

DPT INVESTIGATION FIELD FORMS AND NOTES

Page of

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 09/18/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT0914
Location Allis: 45
Latitude: 28.52017
Longitude: 80.56488

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT0914	45	9/18/2023	10:20	8'	None	Brown	
LC34-DPT0914	45	9/18/2023	10:35	13'	None	Gray	
LC34-DPT0914	45	9/18/2023	10:50	18'	None	Gray	
LC34-DPT0914	45	9/18/2023	11:05	25'	None	Gray	
LC34-DPT0914	45	9/18/2023	11:20	34'	None	Gray	
LC34-DPT0914	45	9/18/2023	11:40	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 09/18/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT0915
Location Allis: 39
Latitude: 28.51995
Longitude: 80.56503

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT0915	39	9/18/2023	12:30	8'	None	Gray	
LC34-DPT0915	39	9/18/2023	12:45	13'	None	Gray	
LC34-DPT0915	39	9/18/2023	13:00	18'	None	Gray	
LC34-DPT0915	39	9/18/2023	13:15	25'	None	Gray	
LC34-DPT0915	39	9/18/2023	13:30	34'	None	Gray	
LC34-DPT0915	39	9/18/2023	13:50	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 09/18/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT0916
Location Allis: 33
Latitude: 28.5197
Longitude: 80.56517

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT0916	33	9/18/2023	15:00	8'	None	Gray	
LC34-DPT0916	33	9/18/2023	15:15	13'	None	Gray	
LC34-DPT0916	33	9/18/2023	15:30	18'	None	Gray	
LC34-DPT0916	33	9/18/2023	15:45	25'	None	Gray	
LC34-DPT0916	33	9/18/2023	16:00	34'	None	Gray	
LC34-DPT0916	33	9/18/2023	16:20	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 09/19/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT0917
Location Allis: 27
Latitude: 28.51947
Longitude: 80.56536

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT0917	27	9/19/2023	8:10	8'	None	Gray	
LC34-DPT0917	27	9/19/2023	8:25	13'	None	Gray	
LC34-DPT0917	27	9/19/2023	8:40	18'	None	Gray	
LC34-DPT0917	27	9/19/2023	8:55	25'	None	Gray	
LC34-DPT0917	27	9/19/2023	9:10	34'	None	Gray	
LC34-DPT0917	27	9/19/2023	9:30	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 09/19/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT0918
Location Allis: 20
Latitude: 28.51922
Longitude: 80.56552

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT0918	20	9/19/2023	10:00	8'	None	Gray	
LC34-DPT0918	20	9/19/2023	10:15	13'	None	Gray	
LC34-DPT0918	20	9/19/2023	10:30	18'	None	Gray	
LC34-DPT0918	20	9/19/2023	11:20	25'	None	Gray	
LC34-DPT0918	20	9/19/2023	11:35	34'	None	Gray	
LC34-DPT0918	20	9/19/2023	11:55	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 09/19/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT0919
Location Allis: 13
Latitude: 28.51898
Longitude: 80.56565

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT0919	13	9/19/2023	12:55	8'	None	Gray	
LC34-DPT0919	13	9/19/2023	13:10	13'	None	Gray	
LC34-DPT0919	13	9/19/2023	13:25	18'	None	Gray	
LC34-DPT0919	13	9/19/2023	13:40	25'	None	Gray	
LC34-DPT0919	13	9/19/2023	13:55	34'	None	Gray	
LC34-DPT0919	13	9/19/2023	14:15	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name:	Launch Complex 34 (LC34)	**Sample ID:**	LC34-DPT0920
Project No.:	112G08985	**Location Allis:**	6
Date:	09/19/2023	**Latitude:**	28.51873
Sampled By:	C. Sorden	**Longitude:**	80.56583

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT0920	6	9/19/2023	14:50	8'	None	Gray	
LC34-DPT0920	6	9/19/2023	15:05	13'	None	Gray	
LC34-DPT0920	6	9/19/2023	15:20	18'	None	Gray	
LC34-DPT0920	6	9/19/2023	15:35	25'	None	Gray	
LC34-DPT0920	6	9/19/2023	15:55	34'	None	Gray	
LC34-DPT0920	6	9/19/2023	16:15	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name:	Launch Complex 34 (LC34)	**Sample ID:**	LC34-DPT0921
Project No.:	112G08985	**Location Allis:**	7
Date:	09/20/2023	**Latitude:**	28.51889
Sampled By:	C. Sorden	**Longitude:**	80.56606

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT0921	7	9/20/2023	8:25	8'	None	Gray	
LC34-DPT0921	7	9/20/2023	8:40	13'	None	Gray	
LC34-DPT0921	7	9/20/2023	8:55	18'	None	Gray	
LC34-DPT0921	7	9/20/2023	9:10	25'	None	Gray	
LC34-DPT0921	7	9/20/2023	9:25	34'	None	Gray	
LC34-DPT0921	7	9/20/2023	9:45	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 09/20/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT0922
Location Allis: 14
Latitude: 28.52017
Longitude: 80.56488

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT0922	14	9/20/2023	10:15	8'	None	Gray	
LC34-DPT0922	14	9/20/2023	10:30	13'	None	Gray	
LC34-DPT0922	14	9/20/2023	10:45	18'	None	Gray	
LC34-DPT0922	14	9/20/2023	11:00	25'	None	Gray	
LC34-DPT0922	14	9/20/2023	11:15	34'	None	Gray	
LC34-DPT0922	14	9/20/2023	11:35	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 09/20/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT0923
Location Allis: 21
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT0923	21	9/20/2023	12:45	8'	None	Gray	
LC34-DPT0923	21	9/20/2023	13:00	13'	None	Gray	
LC34-DPT0923	21	9/20/2023	13:15	18'	None	Gray	
LC34-DPT0923	21	9/20/2023	13:30	25'	None	Gray	
LC34-DPT0923	21	9/20/2023	13:45	34'	None	Gray	
LC34-DPT0923	21	9/20/2023	14:05	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 09/20/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT0924
Location Allis: 56
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT0924	56	9/20/2023	15:10	8'	None	Gray	
LC34-DPT0924	56	9/20/2023	15:25	13'	None	Gray	
LC34-DPT0924	56	9/20/2023	15:40	18'	None	Gray	
LC34-DPT0924	56	9/20/2023	15:55	25'	None	Gray	
LC34-DPT0924	56	9/20/2023	16:10	34'	None	Gray	
LC34-DPT0924	56	9/20/2023	16:30	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 09/21/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT0925
Location Allis: 52
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT0925	52	9/21/2023	7:40	8'	None	Gray	
LC34-DPT0925	52	9/21/2023	8:10	13'	None	Gray	
LC34-DPT0925	52	9/21/2023	8:25	18'	None	Gray	
LC34-DPT0925	52	9/21/2023	8:40	25'	None	Gray	
LC34-DPT0925	52	9/21/2023	8:55	34'	None	Gray	
LC34-DPT0925	52	9/21/2023	9:15	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 09/21/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT0926
Location Allis: 48
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT0926	48	9/21/2023	10:05	8'	None	Gray	
LC34-DPT0926	48	9/21/2023	10:20	13'	None	Gray	
LC34-DPT0926	48	9/21/2023	10:35	18'	None	Gray	
LC34-DPT0926	48	9/21/2023	10:55	25'	None	Gray	
LC34-DPT0926	48	9/21/2023	11:15	34'	None	Gray	
LC34-DPT0926	48	9/21/2023	11:35	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 09/21/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT0927
Location Allis: 44
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT0927	44	9/21/2023	12:10	8'	None	Gray	
LC34-DPT0927	44	9/21/2023	12:25	13'	None	Gray	
LC34-DPT0927	44	9/21/2023	12:40	18'	None	Gray	
LC34-DPT0927	44	9/21/2023	12:55	25'	None	Gray	
LC34-DPT0927	44	9/21/2023	13:15	34'	None	Gray	
LC34-DPT0927	44	9/21/2023	13:35	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 09/21/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT0928
Location Allis: 38
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT0928	38	9/21/2023	14:35	8'	None	Gray	
LC34-DPT0928	38	9/21/2023	14:50	13'	None	Gray	
LC34-DPT0928	38	9/21/2023	15:05	18'	None	Gray	
LC34-DPT0928	38	9/21/2023	15:25	25'	None	Gray	
LC34-DPT0928	38	9/21/2023	15:45	34'	None	Gray	
LC34-DPT0928	38	9/21/2023	16:05	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 09/22/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT0929
Location Allis: 32
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT0929	32	9/22/2023	8:00	8'	None	Gray	
LC34-DPT0929	32	9/22/2023	8:15	13'	None	Gray	
LC34-DPT0929	32	9/22/2023	8:30	18'	None	Gray	
LC34-DPT0929	32	9/22/2023	8:45	25'	None	Gray	
LC34-DPT0929	32	9/22/2023	9:00	34'	None	Gray	
LC34-DPT0929	32	9/22/2023	9:20	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 09/22/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT0930
Location Allis: 26
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT0930	26	9/22/2023	9:55	8'	None	Gray	
LC34-DPT0930	26	9/22/2023	10:10	13'	None	Gray	
LC34-DPT0930	26	9/22/2023	10:25	18'	None	Gray	
LC34-DPT0930	26	9/22/2023	10:40	25'	None	Gray	
LC34-DPT0930	26	9/22/2023	11:00	34'	None	Gray	
LC34-DPT0930	26	9/22/2023	11:25	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 09/22/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT0931
Location Allis: 19
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT0931	19	9/22/2023	12:15	8'	None	Gray	
LC34-DPT0931	19	9/22/2023	12:30	13'	None	Gray	
LC34-DPT0931	19	9/22/2023	12:45	18'	None	Gray	
LC34-DPT0931	19	9/22/2023	13:05	25'	None	Gray	
LC34-DPT0931	19	9/22/2023	13:25	34'	None	Gray	
LC34-DPT0931	19	9/22/2023	13:45	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 09/25/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT0932
Location Allis: 12
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT0932	12	9/25/2023	9:25	8'	None	Gray	
LC34-DPT0932	12	9/25/2023	9:40	13'	None	Gray	
LC34-DPT0932	12	9/25/2023	9:55	18'	None	Gray	
LC34-DPT0932	12	9/25/2023	10:10	25'	None	Gray	
LC34-DPT0932	12	9/25/2023	10:30	34'	None	Gray	
LC34-DPT0932	12	9/25/2023	10:50	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 09/25/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT0933
Location Allis: 5
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT0933	5	9/25/2023	11:25	8'	None	Gray	
LC34-DPT0933	5	9/25/2023	11:40	13'	None	Gray	
LC34-DPT0933	5	9/25/2023	11:55	18'	None	Gray	
LC34-DPT0933	5	9/25/2023	12:15	25'	None	Gray	
LC34-DPT0933	5	9/25/2023	12:35	34'	None	Gray	
LC34-DPT0933	5	9/25/2023	12:55	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 09/25/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT0934
Location Allis: 107
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT0934	107	9/25/2023	14:25	8'	None	Gray	
LC34-DPT0934	107	9/25/2023	14:40	13'	None	Gray	
LC34-DPT0934	107	9/25/2023	15:00	18'	None	Gray	
LC34-DPT0934	107	9/25/2023	15:20	25'	None	Gray	
LC34-DPT0934	107	9/25/2023	15:40	34'	None	Gray	
LC34-DPT0934	107	9/25/2023	16:00	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 09/26/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT0935
Location Allis: 108
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT0935	108	9/26/2023	7:35	8'	None	Gray	
LC34-DPT0935	108	9/26/2023	7:50	13'	None	Gray	
LC34-DPT0935	108	9/26/2023	8:05	18'	None	Gray	
LC34-DPT0935	108	9/26/2023	8:20	25'	None	Gray	
LC34-DPT0935	108	9/26/2023	8:40	34'	None	Gray	
LC34-DPT0935	108	9/26/2023	9:00	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 09/26/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT0936
Location Allis: 109
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT0936	109	9/26/2023	9:50	8'	None	Gray	
LC34-DPT0936	109	9/26/2023	10:05	13'	None	Gray	
LC34-DPT0936	109	9/26/2023	10:20	18'	None	Gray	
LC34-DPT0936	109	9/26/2023	10:35	25'	None	Gray	
LC34-DPT0936	109	9/26/2023	10:55	34'	None	Gray	
LC34-DPT0936	109	9/26/2023	11:15	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 09/26/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT0937
Location Allis: 110
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT0937	110	9/26/2023	11:55	8'	None	Gray	
LC34-DPT0937	110	9/26/2023	12:10	13'	None	Gray	
LC34-DPT0937	110	9/26/2023	12:25	18'	None	Gray	
LC34-DPT0937	110	9/26/2023	12:45	25'	None	Gray	
LC34-DPT0937	110	9/26/2023	13:05	34'	None	Gray	
LC34-DPT0937	110	9/26/2023	13:25	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 09/26/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT0938
Location Allis: 112
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT0938	112	9/26/2023	14:10	8'	None	Gray	
LC34-DPT0938	112	9/26/2023	14:30	13'	None	Gray	
LC34-DPT0938	112	9/26/2023	14:45	18'	None	Gray	
LC34-DPT0938	112	9/26/2023	15:00	25'	None	Gray	
LC34-DPT0938	112	9/26/2023	15:15	34'	None	Gray	
LC34-DPT0938	112	9/26/2023	15:35	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 09/26/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT0939
Location Allis: 102
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT0939	102	9/26/2023	16:10	8'	None	Gray	
LC34-DPT0939	102	9/26/2023	16:20	13'	None	Gray	
LC34-DPT0939	102	9/26/2023	16:30	18'	None	Gray	
LC34-DPT0939	102	9/26/2023	16:45	25'	None	Gray	
LC34-DPT0939	102	9/26/2023	17:00	34'	None	Gray	
LC34-DPT0939	102	9/26/2023	17:20	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 09/27/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT0940
Location Allis: 80
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT0940	80	9/27/2023	8:25	8'	None	Gray	
LC34-DPT0940	80	9/27/2023	8:40	13'	None	Gray	
LC34-DPT0940	80	9/27/2023	9:00	18'	None	Gray	
LC34-DPT0940	80	9/27/2023	9:20	25'	None	Gray	
LC34-DPT0940	80	9/27/2023	9:40	34'	None	Gray	
LC34-DPT0940	80	9/27/2023	10:00	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 09/27/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT0941
Location Allis: 91
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT0941	91	9/27/2023	10:40	8'	None	Gray	
LC34-DPT0941	91	9/27/2023	10:55	13'	None	Gray	
LC34-DPT0941	91	9/27/2023	11:10	18'	None	Gray	
LC34-DPT0941	91	9/27/2023	11:25	25'	None	Gray	
LC34-DPT0941	91	9/27/2023	11:40	34'	None	Gray	
LC34-DPT0941	91	9/27/2023	12:00	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name:	Launch Complex 34 (LC34)	**Sample ID:**	LC34-DPT0942
Project No.:	112G08985	**Location Allis:**	90
Date:	09/27/2023	**Latitude:**	
Sampled By:	C. Sorden	**Longitude:**	

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT0942	90	9/27/2023	12:40	8'	None	Gray	
LC34-DPT0942	90	9/27/2023	12:55	13'	None	Gray	
LC34-DPT0942	90	9/27/2023	13:10	18'	None	Gray	
LC34-DPT0942	90	9/27/2023	13:25	25'	None	Gray	
LC34-DPT0942	90	9/27/2023	13:40	34'	None	Gray	
LC34-DPT0942	90	9/27/2023	14:05	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 09/27/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT0943
Location Allis: 89
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT0943	89	9/27/2023	14:50	8'	None	Gray	
LC34-DPT0943	89	9/27/2023	15:05	13'	None	Gray	
LC34-DPT0943	89	9/27/2023	15:20	18'	None	Gray	
LC34-DPT0943	89	9/27/2023	15:40	25'	None	Gray	
LC34-DPT0943	89	9/28/2023	7:55	34'	None	Gray	
LC34-DPT0943	89	9/28/2023	8:20	38'	None	Gray	
LC34-DPT0943	89	10/26/2023	14:55	43'	None	Gray	
LC34-DPT0943	89	10/26/2023	15:10	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 09/28/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT0944
Location Allis: 88
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT0944	88	9/28/2023	9:00	8'	None	Gray	
LC34-DPT0944	88	9/28/2023	9:15	13'	None	Gray	
LC34-DPT0944	88	9/28/2023	9:30	18'	None	Gray	
LC34-DPT0944	88	9/28/2023	9:45	25'	None	Gray	
LC34-DPT0944	88	9/28/2023	10:05	34'	None	Gray	
LC34-DPT0944	88	9/28/2023	10:25	38'	None	Gray	
LC34-DPT0944	88	10/26/2023	15:50	43'	None	Gray	
LC34-DPT0944	88	10/26/2023	16:05	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 09/28/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT0945
Location Allis: 87
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT0945	87	9/28/2023	11:05	8'	None	Gray	
LC34-DPT0945	87	9/28/2023	11:20	13'	None	Gray	
LC34-DPT0945	87	9/28/2023	11:35	18'	None	Gray	
LC34-DPT0945	87	9/28/2023	11:50	25'	None	Gray	
LC34-DPT0945	87	9/28/2023	12:05	34'	None	Gray	
LC34-DPT0945	87	9/28/2023	12:20	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 09/28/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT0946
Location Allis: 85
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT0946	85	9/28/2023	12:55	8'	None	Gray	
LC34-DPT0946	85	9/28/2023	13:10	13'	None	Gray	
LC34-DPT0946	85	9/28/2023	13:25	18'	None	Gray	
LC34-DPT0946	85	9/28/2023	13:40	25'	None	Gray	
LC34-DPT0946	85	9/28/2023	13:55	34'	None	Gray	
LC34-DPT0946	85	9/28/2023	14:15	38'	None	Gray	
LC34-DPT0946	85	10/27/2023	8:15	43'	None	Gray	
LC34-DPT0946	85	10/27/2023	8:30	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 09/28/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT0947
Location Allis: 95
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT0947	95	9/28/2023	14:55	8'	None	Gray	
LC34-DPT0947	95	9/28/2023	15:10	13'	None	Gray	
LC34-DPT0947	95	9/28/2023	15:25	18'	None	Gray	
LC34-DPT0947	95	9/28/2023	15:45	25'	None	Gray	
LC34-DPT0947	95	9/28/2023	16:05	34'	None	Gray	
LC34-DPT0947	95	9/28/2023	16:25	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 09/29/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT0948
Location Allis: 96
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT0948	96	9/29/2023	8:00	8'	None	Gray	
LC34-DPT0948	96	9/29/2023	8:15	13'	None	Gray	
LC34-DPT0948	96	9/29/2023	8:30	18'	None	Gray	
LC34-DPT0948	96	9/29/2023	8:50	25'	None	Gray	
LC34-DPT0948	96	9/29/2023	9:10	34'	None	Gray	
LC34-DPT0948	96	9/29/2023	9:30	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 09/29/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT0949
Location Allis: 97
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT0949	97	9/29/2023	10:10	8'	None	Gray	
LC34-DPT0949	97	9/29/2023	10:25	13'	None	Gray	
LC34-DPT0949	97	9/29/2023	10:40	18'	None	Gray	
LC34-DPT0949	97	9/29/2023	11:00	25'	None	Gray	
LC34-DPT0949	97	9/29/2023	11:20	34'	None	Gray	
LC34-DPT0949	97	9/29/2023	11:40	38'	None	Gray	
LC34-DPT0949	97	10/26/2023	16:45	43'	None	Gray	
LC34-DPT0949	97	10/26/2023	17:00	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 09/29/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT0950
Location Allis: 98
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT0950	98	9/29/2023	12:25	8'	None	Gray	
LC34-DPT0950	98	9/29/2023	12:40	13'	None	Gray	
LC34-DPT0950	98	9/29/2023	12:55	18'	None	Gray	
LC34-DPT0950	98	9/29/2023	13:15	25'	None	Gray	
LC34-DPT0950	98	9/29/2023	13:35	34'	None	Gray	
LC34-DPT0950	98	9/29/2023	13:55	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 10/02/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT0951
Location Allis: 99
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT0951	99	10/2/2023	9:25	8'	None	Gray	
LC34-DPT0951	99	10/2/2023	9:40	13'	None	Gray	
LC34-DPT0951	99	10/2/2023	9:55	18'	None	Gray	
LC34-DPT0951	99	10/2/2023	10:10	25'	None	Gray	
LC34-DPT0951	99	10/2/2023	10:30	34'	None	Gray	
LC34-DPT0951	99	10/2/2023	10:50	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 10/02/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT0952
Location Allis: 100
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT0952	100	10/2/2023	11:35	8'	None	Gray	
LC34-DPT0952	100	10/2/2023	11:50	13'	None	Gray	
LC34-DPT0952	100	10/2/2023	12:05	18'	None	Gray	
LC34-DPT0952	100	10/2/2023	12:20	25'	None	Gray	
LC34-DPT0952	100	10/2/2023	12:40	34'	None	Gray	
LC34-DPT0952	100	10/2/2023	13:00	38'	None	Gray	
LC34-DPT0952	100	10/26/2023	14:00	43'	None	Gray	
LC34-DPT0952	100	10/26/2023	14:15	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 10/02/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT0953
Location Allis: 101
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT0953	101	10/2/2023	13:50	8'	None	Gray	
LC34-DPT0953	101	10/2/2023	14:05	13'	None	Gray	
LC34-DPT0953	101	10/2/2023	14:20	18'	None	Gray	
LC34-DPT0953	101	10/2/2023	14:40	25'	None	Gray	
LC34-DPT0953	101	10/2/2023	15:00	34'	None	Gray	
LC34-DPT0953	101	10/2/2023	15:20	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 10/03/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT0954
Location Allis: 4
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT0954	4	10/3/2023	8:00	8'	None	Gray	
LC34-DPT0954	4	10/3/2023	8:15	13'	None	Gray	
LC34-DPT0954	4	10/3/2023	8:30	18'	None	Gray	
LC34-DPT0954	4	10/3/2023	8:50	25'	None	Gray	
LC34-DPT0954	4	10/3/2023	9:10	34'	None	Gray	
LC34-DPT0954	4	10/3/2023	9:30	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 10/03/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT0955
Location Allis: 11
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT0955	11	10/3/2023	10:10	8'	None	Gray	
LC34-DPT0955	11	10/3/2023	10:25	13'	None	Gray	
LC34-DPT0955	11	10/3/2023	10:40	18'	None	Gray	
LC34-DPT0955	11	10/3/2023	11:00	25'	None	Gray	
LC34-DPT0955	11	10/3/2023	11:20	34'	None	Gray	
LC34-DPT0955	11	10/3/2023	11:40	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 10/03/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT0956
Location Allis: 18
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT0956	18	10/3/2023	12:20	8'	None	Gray	
LC34-DPT0956	18	10/3/2023	12:35	13'	None	Gray	
LC34-DPT0956	18	10/3/2023	12:50	18'	None	Gray	
LC34-DPT0956	18	10/3/2023	13:10	25'	None	Gray	
LC34-DPT0956	18	10/3/2023	13:30	34'	None	Gray	
LC34-DPT0956	18	10/3/2023	13:50	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 10/03/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT0957
Location Allis: 25
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT0957	25	10/3/2023	14:30	8'	None	Gray	
LC34-DPT0957	25	10/3/2023	14:45	13'	None	Gray	
LC34-DPT0957	25	10/3/2023	15:00	18'	None	Gray	
LC34-DPT0957	25	10/3/2023	15:20	25'	None	Gray	
LC34-DPT0957	25	10/3/2023	15:40	34'	None	Gray	
LC34-DPT0957	25	10/3/2023	16:00	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 10/03/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT0958
Location Allis: 31
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT0958	31	10/3/2023	16:35	8'	None	Gray	
LC34-DPT0958	31	10/3/2023	16:50	13'	None	Gray	
LC34-DPT0958	31	10/4/2023	7:55	18'	None	Gray	
LC34-DPT0958	31	10/4/2023	8:15	25'	None	Gray	
LC34-DPT0958	31	10/4/2023	8:35	34'	None	Gray	
LC34-DPT0958	31	10/4/2023	8:55	38'	None	Gray	
LC34-DPT0958	31	10/23/2023	15:55	43'	None	Gray	
LC34-DPT0958	31	10/23/2023	16:10	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 10/04/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT0959
Location Allis: 37
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT0959	37	10/4/2023	9:40	8'	None	Gray	
LC34-DPT0959	37	10/4/2023	9:55	13'	None	Gray	
LC34-DPT0959	37	10/4/2023	10:10	18'	None	Gray	
LC34-DPT0959	37	10/4/2023	10:30	25'	None	Gray	
LC34-DPT0959	37	10/4/2023	10:50	34'	None	Gray	
LC34-DPT0959	37	10/4/2023	11:10	38'	None	Gray	
LC34-DPT0959	37	10/23/2023	15:00	43'	None	Gray	
LC34-DPT0959	37	10/23/2023	15:15	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 10/04/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT0960
Location Allis: 43
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT0960	43	10/4/2023	11:50	8'	None	Gray	
LC34-DPT0960	43	10/4/2023	12:05	13'	None	Gray	
LC34-DPT0960	43	10/4/2023	12:20	18'	None	Gray	
LC34-DPT0960	43	10/4/2023	12:40	25'	None	Gray	
LC34-DPT0960	43	10/4/2023	13:00	34'	None	Gray	
LC34-DPT0960	43	10/4/2023	13:20	38'	None	Gray	
LC34-DPT0960	43	10/23/2023	14:05	43'	None	Gray	
LC34-DPT0960	43	10/23/2023	14:20	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 10/04/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT0961
Location Allis: 47
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT0961	47	10/4/2023	14:00	8'	None	Gray	
LC34-DPT0961	47	10/4/2023	14:15	13'	None	Gray	
LC34-DPT0961	47	10/4/2023	14:30	18'	None	Gray	
LC34-DPT0961	47	10/4/2023	14:50	25'	None	Gray	
LC34-DPT0961	47	10/4/2023	15:10	34'	None	Gray	
LC34-DPT0961	47	10/4/2023	15:30	38'	None	Gray	
LC34-DPT0961	47	10/23/2023	13:05	43'	None	Gray	
LC34-DPT0961	47	10/23/2023	13:20	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 10/04/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT0962
Location Allis: 51
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT0962	51	10/4/2023	16:10	8'	None	Gray	
LC34-DPT0962	51	10/4/2023	16:25	13'	None	Gray	
LC34-DPT0962	51	10/4/2023	16:40	18'	None	Gray	
LC34-DPT0962	51	10/4/2023	17:00	25'	None	Gray	
LC34-DPT0962	51	10/5/2023	8:00	34'	None	Gray	
LC34-DPT0962	51	10/5/2023	8:20	38'	None	Gray	
LC34-DPT0962	51	10/23/2023	12:05	43'	None	Gray	
LC34-DPT0962	51	10/23/2023	12:25	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 10/05/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT0963
Location Allis: 42
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT0963	42	10/5/2023	9:05	8'	None	Gray	
LC34-DPT0963	42	10/5/2023	9:20	13'	None	Gray	
LC34-DPT0963	42	10/5/2023	9:35	18'	None	Gray	
LC34-DPT0963	42	10/5/2023	9:55	25'	None	Gray	
LC34-DPT0963	42	10/5/2023	10:15	34'	None	Gray	
LC34-DPT0963	42	10/5/2023	10:35	38'	None	Gray	
LC34-DPT0963	42	10/24/2023	7:55	43'	None	Gray	
LC34-DPT0963	42	10/24/2023	8:10	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name:	Launch Complex 34 (LC34)	**Sample ID:**	LC34-DPT0964
Project No.:	112G08985	**Location Allis:**	55
Date:	10/05/2023	**Latitude:**	
Sampled By:	C. Sorden	**Longitude:**	

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT0964	55	10/5/2023	11:15	8'	None	Gray	
LC34-DPT0964	55	10/5/2023	11:30	13'	None	Gray	
LC34-DPT0964	55	10/5/2023	11:45	18'	None	Gray	
LC34-DPT0964	55	10/5/2023	12:00	25'	None	Gray	
LC34-DPT0964	55	10/5/2023	12:15	34'	None	Gray	
LC34-DPT0964	55	10/5/2023	12:35	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 10/05/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT0965
Location Allis: 36
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT0965	36	10/5/2023	13:15	8'	None	Gray	
LC34-DPT0965	36	10/5/2023	13:30	13'	None	Gray	
LC34-DPT0965	36	10/5/2023	13:45	18'	None	Gray	
LC34-DPT0965	36	10/5/2023	14:05	25'	None	Gray	
LC34-DPT0965	36	10/5/2023	14:25	34'	None	Gray	
LC34-DPT0965	36	10/5/2023	14:45	38'	None	Gray	
LC34-DPT0965	36	10/24/2023	8:55	43'	None	Gray	
LC34-DPT0965	36	10/24/2023	9:10	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 10/05/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT0966
Location Allis: 30
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT0966	30	10/5/2023	15:30	8'	None	Gray	
LC34-DPT0966	30	10/5/2023	15:45	13'	None	Gray	
LC34-DPT0966	30	10/5/2023	16:00	18'	None	Gray	
LC34-DPT0966	30	10/5/2023	16:20	25'	None	Gray	
LC34-DPT0966	30	10/5/2023	16:40	34'	None	Gray	
LC34-DPT0966	30	10/5/2023	17:00	38'	None	Gray	
LC34-DPT0966	30	10/24/2023	9:50	43'	None	Gray	
LC34-DPT0966	30	10/24/2023	10:05	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 10/06/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT0967
Location Allis: 24
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT0967	24	10/6/2023	8:15	8'	None	Gray	
LC34-DPT0967	24	10/6/2023	8:30	13'	None	Gray	
LC34-DPT0967	24	10/6/2023	8:45	18'	None	Gray	
LC34-DPT0967	24	10/6/2023	9:00	25'	None	Gray	
LC34-DPT0967	24	10/6/2023	9:20	34'	None	Gray	
LC34-DPT0967	24	10/6/2023	9:40	38'	None	Gray	
LC34-DPT0967	24	10/24/2023	10:45	43'	None	Gray	
LC34-DPT0967	24	10/24/2023	11:00	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 10/06/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT0968
Location Allis: 17
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT0968	17	10/6/2023	10:35	8'	None	Gray	
LC34-DPT0968	17	10/6/2023	10:50	13'	None	Gray	
LC34-DPT0968	17	10/6/2023	11:05	18'	None	Gray	
LC34-DPT0968	17	10/6/2023	11:20	25'	None	Gray	
LC34-DPT0968	17	10/6/2023	11:35	34'	None	Gray	
LC34-DPT0968	17	10/6/2023	11:55	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 10/06/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT0969
Location Allis: 10
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT0969	10	10/6/2023	12:25	8'	None	Gray	
LC34-DPT0969	10	10/6/2023	12:40	13'	None	Gray	
LC34-DPT0969	10	10/6/2023	12:55	18'	None	Gray	
LC34-DPT0969	10	10/6/2023	13:15	25'	None	Gray	
LC34-DPT0969	10	10/6/2023	13:35	34'	None	Gray	
LC34-DPT0969	10	10/6/2023	13:55	38'	None	Gray	
LC34-DPT0969	10	10/24/2023	11:50	43'	None	Gray	
LC34-DPT0969	10	10/24/2023	12:05	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 10/09/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT0970
Location Allis: 3
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT0970	3	10/9/2023	9:20	8'	None	Gray	
LC34-DPT0970	3	10/9/2023	9:35	13'	None	Gray	
LC34-DPT0970	3	10/9/2023	9:50	18'	None	Gray	
LC34-DPT0970	3	10/9/2023	10:05	25'	None	Gray	
LC34-DPT0970	3	10/9/2023	10:25	34'	None	Gray	
LC34-DPT0970	3	10/9/2023	10:45	38'	None	Gray	
LC34-DPT0970	3	10/24/2023	12:45	43'	None	Gray	
LC34-DPT0970	3	10/24/2023	13:00	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 10/09/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT0971
Location Allis: 2
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT0971	2	10/9/2023	11:20	8'	None	Gray	
LC34-DPT0971	2	10/9/2023	11:35	13'	None	Gray	
LC34-DPT0971	2	10/9/2023	11:50	18'	None	Gray	
LC34-DPT0971	2	10/9/2023	12:10	25'	None	Gray	
LC34-DPT0971	2	10/9/2023	12:35	34'	None	Gray	
LC34-DPT0971	2	10/9/2023	13:00	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 10/09/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT0972
Location Allis: 86
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT0972	86	10/9/2023	14:35	8'	None	Gray	
LC34-DPT0972	86	10/9/2023	14:50	13'	None	Gray	
LC34-DPT0972	86	10/9/2023	15:05	18'	None	Gray	
LC34-DPT0972	86	10/9/2023	15:20	25'	None	Gray	
LC34-DPT0972	86	10/9/2023	15:40	34'	None	Gray	
LC34-DPT0972	86	10/9/2023	16:00	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 10/10/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT0973
Location Allis: 77
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT0973	77	10/10/2023	7:35	8'	None	Gray	
LC34-DPT0973	77	10/10/2023	7:50	13'	None	Gray	
LC34-DPT0973	77	10/10/2023	8:10	18'	None	Gray	
LC34-DPT0973	77	10/10/2023	8:25	25'	None	Gray	
LC34-DPT0973	77	10/10/2023	8:40	34'	None	Gray	
LC34-DPT0973	77	10/10/2023	9:00	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 10/10/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT0974
Location Allis: 78
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT0974	78	10/10/2023	9:35	8'	None	Gray	
LC34-DPT0974	78	10/10/2023	9:45	13'	None	Gray	
LC34-DPT0974	78	10/10/2023	10:00	18'	None	Gray	
LC34-DPT0974	78	10/10/2023	10:15	25'	None	Gray	
LC34-DPT0974	78	10/10/2023	10:30	34'	None	Gray	
LC34-DPT0974	78	10/10/2023	10:55	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 10/10/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT0975
Location Allis: 79
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT0975	79	10/10/2023	11:25	8'	None	Gray	
LC34-DPT0975	79	10/10/2023	11:35	13'	None	Gray	
LC34-DPT0975	79	10/10/2023	11:50	18'	None	Gray	
LC34-DPT0975	79	10/10/2023	12:05	25'	None	Gray	
LC34-DPT0975	79	10/10/2023	12:35	34'	None	Gray	
LC34-DPT0975	79	10/10/2023	12:55	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 10/10/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT0976
Location Allis: 81
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT0976	81	10/10/2023	13:30	8'	None	Gray	
LC34-DPT0976	81	10/10/2023	13:45	13'	None	Gray	
LC34-DPT0976	81	10/10/2023	14:00	18'	None	Gray	
LC34-DPT0976	81	10/10/2023	14:15	25'	None	Gray	
LC34-DPT0976	81	10/10/2023	14:30	34'	None	Gray	
LC34-DPT0976	81	10/10/2023	14:50	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 10/10/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT0977
Location Allis: 92
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT0977	92	10/10/2023	15:25	8'	None	Gray	
LC34-DPT0977	92	10/10/2023	15:35	13'	None	Gray	
LC34-DPT0977	92	10/10/2023	15:50	18'	None	Gray	
LC34-DPT0977	92	10/10/2023	16:05	25'	None	Gray	
LC34-DPT0977	92	10/10/2023	16:20	34'	None	Gray	
LC34-DPT0977	92	10/10/2023	16:40	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 10/11/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT0978
Location Allis: 103
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT0978	103	10/11/2023	8:05	8'	None	Gray	
LC34-DPT0978	103	10/11/2023	8:20	13'	None	Gray	
LC34-DPT0978	103	10/11/2023	8:35	18'	None	Gray	
LC34-DPT0978	103	10/11/2023	8:50	25'	None	Gray	
LC34-DPT0978	103	10/11/2023	9:10	34'	None	Gray	
LC34-DPT0978	103	10/11/2023	9:30	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 10/11/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT0979
Location Allis: 123
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT0979	123	10/11/2023	10:25	8'	None	Gray	
LC34-DPT0979	123	10/11/2023	10:40	13'	None	Gray	
LC34-DPT0979	123	10/11/2023	10:55	18'	None	Gray	
LC34-DPT0979	123	10/11/2023	11:10	25'	None	Gray	
LC34-DPT0979	123	10/11/2023	11:30	34'	None	Gray	
LC34-DPT0979	123	10/11/2023	11:50	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 10/11/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT0980
Location Allis: 124
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT0980	124	10/11/2023	12:30	8'	None	Gray	
LC34-DPT0980	124	10/11/2023	12:45	13'	None	Gray	
LC34-DPT0980	124	10/11/2023	13:00	18'	None	Gray	
LC34-DPT0980	124	10/11/2023	13:15	25'	None	Gray	
LC34-DPT0980	124	10/11/2023	13:30	34'	None	Gray	
LC34-DPT0980	124	10/11/2023	13:50	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 10/11/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT0981
Location Allis: 114
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT0981	114	10/11/2023	14:25	8'	None	Gray	
LC34-DPT0981	114	10/11/2023	14:35	13'	None	Gray	
LC34-DPT0981	114	10/11/2023	14:50	18'	None	Gray	
LC34-DPT0981	114	10/11/2023	15:10	25'	None	Gray	
LC34-DPT0981	114	10/11/2023	15:30	34'	None	Gray	
LC34-DPT0981	114	10/11/2023	15:50	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 10/12/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT0982
Location Allis: 113
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT0982	113	10/12/2023	8:05	8'	None	Gray	
LC34-DPT0982	113	10/12/2023	8:20	13'	None	Gray	
LC34-DPT0982	113	10/12/2023	8:35	18'	None	Gray	
LC34-DPT0982	113	10/12/2023	8:50	25'	None	Gray	
LC34-DPT0982	113	10/12/2023	9:05	34'	None	Gray	
LC34-DPT0982	113	10/12/2023	9:25	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 10/12/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT0983
Location Allis: 111
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT0983	111	10/12/2023	10:05	8'	None	Gray	
LC34-DPT0983	111	10/12/2023	10:15	13'	None	Gray	
LC34-DPT0983	111	10/12/2023	10:30	18'	None	Gray	
LC34-DPT0983	111	10/12/2023	10:45	25'	None	Gray	
LC34-DPT0983	111	10/12/2023	11:00	34'	None	Gray	
LC34-DPT0983	111	10/12/2023	11:20	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 10/12/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT0984
Location Allis: 122
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT0984	122	10/12/2023	11:55	8'	None	Gray	
LC34-DPT0984	122	10/12/2023	12:10	13'	None	Gray	
LC34-DPT0984	122	10/12/2023	12:25	18'	None	Gray	
LC34-DPT0984	122	10/12/2023	12:45	25'	None	Gray	
LC34-DPT0984	122	10/12/2023	13:05	34'	None	Gray	
LC34-DPT0984	122	10/13/2023	8:00	38'	None	Gray	
LC34-DPT0984	122	10/26/2023	13:05	43'	None	Gray	
LC34-DPT0984	122	10/26/2023	13:20	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 10/13/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT0985
Location Allis: 121
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT0985	121	10/13/2023	8:35	8'	None	Gray	
LC34-DPT0985	121	10/13/2023	8:45	13'	None	Gray	
LC34-DPT0985	121	10/13/2023	9:00	18'	None	Gray	
LC34-DPT0985	121	10/13/2023	9:15	25'	None	Gray	
LC34-DPT0985	121	10/13/2023	9:35	34'	None	Gray	
LC34-DPT0985	121	10/13/2023	9:55	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 10/13/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT0986
Location Allis: 120
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT0986	120	10/13/2023	10:30	8'	None	Gray	
LC34-DPT0986	120	10/13/2023	10:40	13'	None	Gray	
LC34-DPT0986	120	10/13/2023	10:50	18'	None	Gray	
LC34-DPT0986	120	10/13/2023	11:05	25'	None	Gray	
LC34-DPT0986	120	10/13/2023	11:25	34'	None	Gray	
LC34-DPT0986	120	10/13/2023	11:45	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 10/13/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT0987
Location Allis: 119
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT0987	119	10/13/2023	12:20	8'	None	Gray	
LC34-DPT0987	119	10/13/2023	12:35	13'	None	Gray	
LC34-DPT0987	119	10/13/2023	12:55	18'	None	Gray	
LC34-DPT0987	119	10/13/2023	13:10	25'	None	Gray	
LC34-DPT0987	119	10/13/2023	13:30	34'	None	Gray	
LC34-DPT0987	119	10/13/2023	13:50	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name:	Launch Complex 34 (LC34)	**Sample ID:**	LC34-DPT0988
Project No.:	112G08985	**Location Allis:**	8
Date:	10/16/2023	**Latitude:**	
Sampled By:	C. Sorden	**Longitude:**	

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT0988	8	10/16/2023	9:05	8'	None	Gray	
LC34-DPT0988	8	10/16/2023	9:35	13'	None	Gray	
LC34-DPT0988	8	10/16/2023	9:55	18'	None	Gray	
LC34-DPT0988	8	10/16/2023	10:10	25'	None	Gray	
LC34-DPT0988	8	10/16/2023	10:30	34'	None	Gray	
LC34-DPT0988	8	10/16/2023	10:50	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 10/16/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT0989
Location Allis: 15
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT0989	15	10/16/2023	11:25	8'	None	Gray	
LC34-DPT0989	15	10/16/2023	11:45	13'	None	Gray	
LC34-DPT0989	15	10/16/2023	12:00	18'	None	Gray	
LC34-DPT0989	15	10/16/2023	12:30	25'	None	Gray	
LC34-DPT0989	15	10/16/2023	12:50	34'	None	Gray	
LC34-DPT0989	15	10/16/2023	13:10	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 10/16/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT0990
Location Allis: 22
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT0990	22	10/16/2023	13:45	8'	None	Gray	
LC34-DPT0990	22	10/16/2023	13:55	13'	None	Gray	
LC34-DPT0990	22	10/16/2023	14:10	18'	None	Gray	
LC34-DPT0990	22	10/16/2023	14:30	25'	None	Gray	
LC34-DPT0990	22	10/16/2023	14:45	34'	None	Gray	
LC34-DPT0990	22	10/16/2023	15:05	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 10/16/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT0991
Location Allis: 29
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT0991	29	10/16/2023	16:10	8'	None	Gray	
LC34-DPT0991	29	10/16/2023	16:25	13'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 10/17/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT0992
Location Allis: 28
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT0992	28	10/17/2023	8:05	8'	None	Gray	
LC34-DPT0992	28	10/17/2023	8:25	13'	None	Gray	
LC34-DPT0992	28	10/17/2023	8:40	18'	None	Gray	
LC34-DPT0992	28	10/17/2023	8:55	25'	None	Gray	
LC34-DPT0992	28	10/17/2023	9:15	34'	None	Gray	
LC34-DPT0992	28	10/17/2023	9:35	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 10/17/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT0993
Location Allis: 34
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT0993	34	10/17/2023	10:10	8'	None	Gray	
LC34-DPT0993	34	10/17/2023	10:20	13'	None	Gray	
LC34-DPT0993	34	10/17/2023	10:35	18'	None	Gray	
LC34-DPT0993	34	10/17/2023	10:50	25'	None	Gray	
LC34-DPT0993	34	10/17/2023	11:10	34'	None	Gray	
LC34-DPT0993	34	10/17/2023	11:30	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 10/17/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT0994
Location Allis: 23A
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT0994	23A	10/17/2023	12:45	8'	None	Gray	
LC34-DPT0994	23A	10/17/2023	13:00	13'	None	Gray	
LC34-DPT0994	23A	10/17/2023	13:10	18'	None	Gray	
LC34-DPT0994	23A	10/17/2023	13:25	25'	None	Gray	
LC34-DPT0994	23A	10/17/2023	13:45	34'	None	Gray	
LC34-DPT0994	23A	10/17/2023	14:05	38'	None	Gray	
LC34-DPT0994	23A	10/24/2023	13:40	43'	None	Gray	
LC34-DPT0994	23A	10/24/2023	13:55	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 10/17/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT0995
Location Allis: 23
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT0995	23	10/17/2023	14:40	8'	None	Gray	
LC34-DPT0995	23	10/17/2023	14:50	13'	None	Gray	
LC34-DPT0995	23	10/17/2023	15:05	18'	None	Gray	
LC34-DPT0995	23	10/17/2023	15:20	25'	None	Gray	
LC34-DPT0995	23	10/17/2023	15:35	34'	None	Gray	
LC34-DPT0995	23	10/17/2023	15:55	38'	None	Gray	
LC34-DPT0995	23	10/27/2023	9:20	43'	None	Gray	
LC34-DPT0995	23	10/27/2023	9:35	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 10/17/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT0996
Location Allis: 16
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT0996	16	10/17/2023	16:30	8'	None	Gray	
LC34-DPT0996	16	10/17/2023	16:45	13'	None	Gray	
LC34-DPT0996	16	10/17/2023	17:00	18'	None	Gray	
LC34-DPT0996	16	10/18/2023	7:45	25'	None	Gray	
LC34-DPT0996	16	10/18/2023	8:00	34'	None	Gray	
LC34-DPT0996	16	10/18/2023	8:15	38'	None	Gray	
LC34-DPT0996	16	10/27/2023	10:15	43'	None	Gray	
LC34-DPT0996	16	10/27/2023	10:30	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 10/18/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT0997
Location Allis: 149
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT0997	149	10/18/2023	11:20	8'	None	Gray	
LC34-DPT0997	149	10/18/2023	11:05	13'	None	Gray	
LC34-DPT0997	149	10/18/2023	10:50	18'	None	Gray	
LC34-DPT0997	149	10/18/2023	10:35	25'	None	Gray	
LC34-DPT0997	149	10/18/2023	10:20	32'	None	Gray	
LC34-DPT0997	149	10/18/2023	10:05	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 10/18/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT0998
Location Allis: 148
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT0998	148	10/18/2023	13:25	8'	None	Gray	
LC34-DPT0998	148	10/18/2023	13:10	13'	None	Gray	
LC34-DPT0998	148	10/18/2023	12:55	18'	None	Gray	
LC34-DPT0998	148	10/18/2023	12:40	25'	None	Gray	
LC34-DPT0998	148	10/18/2023	12:25	32'	None	Gray	
LC34-DPT0998	148	10/18/2023	12:10	38'	None	Gray	
LC34-DPT0998	148	10/27/023	11:25	32'	None	Gray	
LC34-DPT0998	148	10/27/2023	11:40	25'	None	Gray	
LC34-DPT0998	148	10/27/2023	11:55	18'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 10/18/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT0999
Location Allis: 147
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT0999	147	10/18/2023	15:20	8'	None	Gray	
LC34-DPT0999	147	10/18/2023	15:05	13'	None	Gray	
LC34-DPT0999	147	10/18/2023	14:50	18'	None	Gray	
LC34-DPT0999	147	10/18/2023	14:35	25'	None	Gray	
LC34-DPT0999	147	10/18/2023	14:20	32'	None	Gray	
LC34-DPT0999	147	10/18/2023	14:05	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 10/18/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT1000
Location Allis: 146
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT1000	146	10/18/2023	17:05	8'	None	Gray	
LC34-DPT1000	146	10/18/2023	16:50	13'	None	Gray	
LC34-DPT1000	146	10/18/2023	16:35	18'	None	Gray	
LC34-DPT1000	146	10/18/2023	16:20	25'	None	Gray	
LC34-DPT1000	146	10/18/2023	16:05	32'	None	Gray	
LC34-DPT1000	146	10/18/2023	15:50	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 10/19/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT1001
Location Allis: 145
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT1001	145	10/19/2023	9:20	8'	None	Gray	
LC34-DPT1001	145	10/19/2023	9:05	13'	None	Gray	
LC34-DPT1001	145	10/19/2023	8:50	18'	None	Gray	
LC34-DPT1001	145	10/19/2023	8:35	25'	None	Gray	
LC34-DPT1001	145	10/19/2023	8:20	32'	None	Gray	
LC34-DPT1001	145	10/19/2023	8:05	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 10/19/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT1002
Location Allis: 144
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT1002	144	10/19/2023	11:20	8'	None	Gray	
LC34-DPT1002	144	10/19/2023	11:05	13'	None	Gray	
LC34-DPT1002	144	10/19/2023	10:50	18'	None	Gray	
LC34-DPT1002	144	10/19/2023	10:35	25'	None	Gray	
LC34-DPT1002	144	10/19/2023	10:20	32'	None	Gray	
LC34-DPT1002	144	10/19/2023	10:05	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 10/19/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT1003
Location Allis: 143
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT1003	143	10/19/2023	13:20	8'	None	Gray	
LC34-DPT1003	143	10/19/2023	13:05	13'	None	Gray	
LC34-DPT1003	143	10/19/2023	12:50	18'	None	Gray	
LC34-DPT1003	143	10/19/2023	12:35	25'	None	Gray	
LC34-DPT1003	143	10/19/2023	12:20	32'	None	Gray	
LC34-DPT1003	143	10/19/2023	12:05	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 10/19/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT1004
Location Allis: 142
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT1004	142	10/19/2023	14:05	8'	None	Gray	
LC34-DPT1004	142	10/19/2023	14:20	13'	None	Gray	
LC34-DPT1004	142	10/19/2023	14:35	18'	None	Gray	
LC34-DPT1004	142	10/19/2023	14:50	25'	None	Gray	
LC34-DPT1004	142	10/19/2023	15:05	32'	None	Gray	
LC34-DPT1004	142	10/19/2023	15:20	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 10/19/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT1005
Location Allis: 141
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT1005	141	10/19/2023	17:15	8'	None	Gray	
LC34-DPT1005	141	10/19/2023	17:00	13'	None	Gray	
LC34-DPT1005	141	10/19/2023	16:45	18'	None	Gray	
LC34-DPT1005	141	10/19/2023	16:30	25'	None	Gray	
LC34-DPT1005	141	10/19/2023	16:15	32'	None	Gray	
LC34-DPT1005	141	10/19/2023	16:00	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 10/20/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT1006
Location Allis: 140
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT1006	140	10/20/2023	9:20	8'	None	Gray	
LC34-DPT1006	140	10/20/2023	9:05	13'	None	Gray	
LC34-DPT1006	140	10/20/2023	8:50	18'	None	Gray	
LC34-DPT1006	140	10/20/2023	8:35	25'	None	Gray	
LC34-DPT1006	140	10/20/2023	8:20	32'	None	Gray	
LC34-DPT1006	140	10/20/2023	8:05	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 10/20/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT1007
Location Allis: 139
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT1007	139	10/20/2023	11:15	8'	None	Gray	
LC34-DPT1007	139	10/20/2023	11:00	13'	None	Gray	
LC34-DPT1007	139	10/20/2023	10:45	18'	None	Gray	
LC34-DPT1007	139	10/20/2023	10:30	25'	None	Gray	
LC34-DPT1007	139	10/20/2023	10:15	32'	None	Gray	
LC34-DPT1007	139	10/20/2023	10:00	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 10/20/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT1008
Location Allis: 139
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT1008	139	10/20/2023	13:10	8'	None	Gray	
LC34-DPT1008	139	10/20/2023	12:55	13'	None	Gray	
LC34-DPT1008	139	10/20/2023	12:40	18'	None	Gray	
LC34-DPT1008	139	10/20/2023	12:25	25'	None	Gray	
LC34-DPT1008	139	10/20/2023	12:10	32'	None	Gray	
LC34-DPT1008	139	10/20/2023	11:55	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name:	Launch Complex 34 (LC34)	**Sample ID:**	LC34-DPT1009
Project No.:	112G08985	**Location Allis:**	1
Date:	10/20/2023	**Latitude:**	
Sampled By:	C. Sorden	**Longitude:**	

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT1009	1	10/20/2023	13:55	8'	None	Gray	
LC34-DPT1009	1	10/20/2023	14:05	13'	None	Gray	
LC34-DPT1009	1	10/20/2023	14:15	18'	None	Gray	
LC34-DPT1009	1	10/20/2023	14:30	25'	None	Gray	
LC34-DPT1009	1	10/20/2023	14:45	34'	None	Gray	
LC34-DPT1009	1	10/20/2023	15:00	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 10/23/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT1010
Location Allis: 9
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT1010	9	10/23/2023	9:35	8'	None	Gray	
LC34-DPT1010	9	10/23/2023	9:50	13'	None	Gray	
LC34-DPT1010	9	10/23/2023	10:05	18'	None	Gray	
LC34-DPT1010	9	10/23/2023	10:20	25'	None	Gray	
LC34-DPT1010	9	10/23/2023	10:40	34'	None	Gray	
LC34-DPT1010	9	10/23/2023	11:00	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 10/24/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT1011
Location Allis: 131+
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT1011	131+	10/24/2023	15:00	8'	None	Gray	
LC34-DPT1011	131+	10/24/2023	15:15	13'	None	Gray	
LC34-DPT1011	131+	10/24/2023	15:30	18'	None	Gray	
LC34-DPT1011	131+	10/24/2023	15:50	25'	None	Gray	
LC34-DPT1011	131+	10/24/2023	16:10	34'	None	Gray	
LC34-DPT1011	131+	10/24/2023	16:30	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 10/25/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT1012
Location Allis: 131
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT1012	131	10/25/2023	8:10	8'	None	Gray	
LC34-DPT1012	131	10/25/2023	8:25	13'	None	Gray	
LC34-DPT1012	131	10/25/2023	8:40	18'	None	Gray	
LC34-DPT1012	131	10/25/2023	8:55	25'	None	Gray	
LC34-DPT1012	131	10/25/2023	9:15	34'	None	Gray	
LC34-DPT1012	131	10/25/2023	9:35	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name:	Launch Complex 34 (LC34)	**Sample ID:**	LC34-DPT1013
Project No.:	112G08985	**Location Allis:**	130
Date:	10/25/2023	**Latitude:**	
Sampled By:	C. Sorden	**Longitude:**	

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT1013	130	10/25/2023	10:10	8'	None	Gray	
LC34-DPT1013	130	10/25/2023	10:25	13'	None	Gray	
LC34-DPT1013	130	10/25/2023	10:40	18'	None	Gray	
LC34-DPT1013	130	10/25/2023	10:55	25'	None	Gray	
LC34-DPT1013	130	10/25/2023	11:10	34'	None	Gray	
LC34-DPT1013	130	10/25/2023	11:30	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 10/25/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT1014
Location Allis: 129
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT1014	129	10/25/2023	12:10	8'	None	Gray	
LC34-DPT1014	129	10/25/2023	12:20	13'	None	Gray	
LC34-DPT1014	129	10/25/2023	12:35	18'	None	Gray	
LC34-DPT1014	129	10/25/2023	12:50	25'	None	Gray	
LC34-DPT1014	129	10/25/2023	13:05	34'	None	Gray	
LC34-DPT1014	129	10/25/2023	13:25	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 10/25/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT1015
Location Allis: 128
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT1015	128	10/25/2023	14:05	8'	None	Gray	
LC34-DPT1015	128	10/25/2023	14:15	13'	None	Gray	
LC34-DPT1015	128	10/25/2023	14:30	18'	None	Gray	
LC34-DPT1015	128	10/25/2023	14:50	25'	None	Gray	
LC34-DPT1015	128	10/25/2023	15:10	34'	None	Gray	
LC34-DPT1015	128	10/25/2023	15:30	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 10/25/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT1016
Location Allis: 135
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT1016	135	10/25/2023	16:10	8'	None	Gray	
LC34-DPT1016	135	10/25/2023	16:25	13'	None	Gray	
LC34-DPT1016	135	10/25/2023	16:40	18'	None	Gray	
LC34-DPT1016	135	10/25/2023	16:55	25'	None	Gray	
LC34-DPT1016	135	10/26/2023	7:45	34'	None	Gray	
LC34-DPT1016	135	10/26/2023	8:10	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 10/26/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT1017
Location Allis: 136
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT1017	136	10/26/2023	8:45	8'	None	Gray	
LC34-DPT1017	136	10/26/2023	9:00	13'	None	Gray	
LC34-DPT1017	136	10/26/2023	9:15	18'	None	Gray	
LC34-DPT1017	136	10/26/2023	9:30	25'	None	Gray	
LC34-DPT1017	136	10/26/2023	9:45	34'	None	Gray	
LC34-DPT1017	136	10/26/2023	10:10	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 10/26/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT1018
Location Allis: 137
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT1018	137	10/26/2023	10:45	8'	None	Gray	
LC34-DPT1018	137	10/26/2023	11:00	13'	None	Gray	
LC34-DPT1018	137	10/26/2023	11:15	18'	None	Gray	
LC34-DPT1018	137	10/26/2023	11:30	25'	None	Gray	
LC34-DPT1018	137	10/26/2023	11:45	34'	None	Gray	
LC34-DPT1018	137	10/26/2023	12:10	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Tetra Tech, Inc.

DPT GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Launch Complex 34 (LC34)
Project No.: 112G08985
Date: 10/26/2023
Sampled By: C. Sorden

Sample ID: LC34-DPT1019
Location Allis: 137
Latitude:
Longitude:

DPT SAMPLING DATA

LOCATION ID	LOCATION	DATE	TIME	DEPTH	ODOR	COLOR	COMMENTS
LC34-DPT1019	137	10/26/2023	10:45	8'	None	Gray	
LC34-DPT1019	137	10/26/2023	11:00	13'	None	Gray	
LC34-DPT1019	137	10/26/2023	11:15	18'	None	Gray	
LC34-DPT1019	137	10/26/2023	11:30	25'	None	Gray	
LC34-DPT1019	137	10/26/2023	11:45	34'	None	Gray	
LC34-DPT1019	137	10/26/2023	12:10	38'	None	Gray	

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
8260D (MOD) LC34 Custom List	ICE	two (2)- 40 mL vials	X
8260D (MOD) LC34 Custom List	HCL/ICE	two (2)- 40 mL vials	X

PROCEDURES

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD | Duplicate ID No.:

09/18/2023 **LC34** **112G08985**

Personnel:	Chuck Sorden	(CS)	Geologist	Tt
	Mickey Ritter	(MR)	Driller	GPI
	Blake Handibode	(BH)	Tech	GPI

Weather: Sunny – 77 degrees F
PPE: Level D
Health and Safety (HAS): Topics – SSHASP; PPE; IDW
Objective: Begin LC34 202309 DPT GW Sampling Event

0800: CS on Base; gathering equipment and supplies
0830: GPI at LC34; HAS Meeting; daily prep; unloading tooling and equipment; pre work decon
0950: Set up on LC34-DPT0914 (Location 45); hand clear 5'
1005: Drilling Commenced

1020: Sample Collected	LC34-DPT0914-008.0-20230918	(45)	Brown; Org Odor
1035: Sample Collected	LC34-DPT0914-013.0-20230918	(45)	Gray; No Odor
1050: Sample Collected	LC34-DPT0914-018.0-20230918	(45)	Gray; No Odor
1105: Sample Collected	LC34-DPT0914-025.0-20230918	(45)	Gray; No Odor
1120: Sample Collected	LC34-DPR0914-034.0-20230918	(45)	Gray; No Odor
1140: Sample Collected	LC34-DPT0914-038.0-20230918	(45)	Gray; No Odor

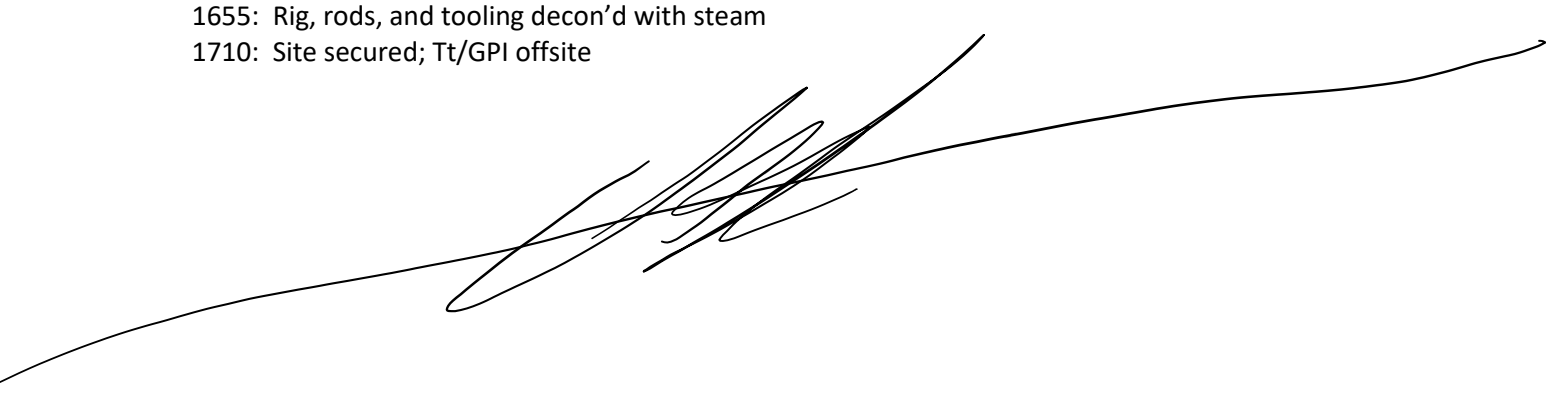
1155: LC34-DPT0914 pressure grouted 40' to surface through rods; mobilizing to Decon pit area at trail head.
1210: Rig, rods, and tooling decon'd with pressurized steam
1215: Set upon LC34-DPT0915 (Location 39); hand clear 5'
1220: Drilling Commenced

1230: Sample Collected	LC34-DPT0915-008.0-20230918	(39)	Gray; No Odor
1245: Sample Collected	LC34-DPT0915-013.0-20230918	(39)	Gray; No Odor
1300: Sample Collected	LC34-DPT0915-018.0-20230918	(39)	Gray; No Odor
1315: Sample Collected	LC34-DPT0915-025.0-20230918	(39)	Gray; No Odor
1330: Sample Collected	LC34-DPT0915-034.0-20230918	(39)	Gray; No Odor
1350: Sample Collected	LC34-DPT0915-038.0-2023918	(39)	Gray; No Odor

1405: LC34-DPT0915 pressure grouted 40' to surface through rods; begin mobilizing to decon pit
1425: Rig, rods, and tooling decon'd with steam
1445: Set up on LC34-DPT0916 (Location 33); hand clear 5'
1450: Drilling Commenced

1500: Sample Collected	LC34-DPT0916-008.0-20230918	(33)	Gray; No Odor
1515: Sample collected	LC34-DPT0916-013.0-20230918	(33)	Gray; No Odor
1530: Sample Collected	LC34-DPT0916-018.0-20230918	(33)	Gray; No Odor
1545: Sample Collected	LC34-DPT0916-025.0-20230918	(33)	Gray; No Odor
1600: Sample Collected	LC34-DPT0916-034.0-20230918	(33)	Gray; No Odor
1620: Sample Collected	LC34-DPT0916-038.0-20230918	(33)	Gray; No Odor

1635: LC34-DPT0916 pressure grouted 40' to surface through rods ;mobilizing to decon pit
1655: Rig, rods, and tooling decon'd with steam
1710: Site secured; Tt/GPI offsite



09/19/2023 **LC34** **112G08985**

Personnel:	Chuck Sorden	(CS)	Geologist	Tt
	Mickey Ritter	(MR)	Driller	GPI
	Blake Handibode	(BH)	Tech	GPI

Weather: Sunny – 77 degrees F
PPE: Level D
Health and Safety (HAS): Topics – SSHASP; PPE; IDW
Objective: Continue LC34 202309 DPT GW Sampling Event

0630: CS on base; gathering equipment and supplies; daily prep
0720: GPI on site; long lines at CCSFS Vehicle Inspection. Setting up rig with 2 sets of sampling equipment; HAS Meeting; daily prep
0750: Set up on LC34-DPT0917 (Location 27); hand clear 5'
0800: Drilling Commenced

0810: Sample Collected	LC34-DPT0917-008.0-20230919	(27)	Gray; No Odor
0825: Sample Collected	LC34-DPT0917-013.0-20230919	(27)	Gray; No Odor
0840: Sample Collected	LC34-DPT0917-018.0-20230919	(27)	Gray; No Odor
0855: Sample Collected	LC34-DPT0917-025.0-20230919	(27)	Gray; No Odor
0910: Sample Collected	LC34-DPT0917-034.0-20230919	(27)	Gray; No Odor
0930: Sample Collected	LC34-DPT0917-038.0-20230919	(27)	Gray; No Odor

0940: LC34-DPT0917 pressure grouted 40' to surface through rods
0945: Set up on LC34-DPT0918 (Location 22); hand clear 5'; using fresh rods and screens
0950: Drilling Commenced

1000: Sample Collected	LC34-DPT0918-008.0-20230919	(20)	Gray; No Odor
1015: Sample Collected	LC34-DPT0918-013.0-20230919	(20)	Gray; No Odor
1030: Sample Collected	LC34-DPT0918-018.0-20230919	(20)	Gray; No Odor

- Tt/GPI offsite to get 4x4 utility cart from Blue Origin Facility

1105: Tt/GPI on site; drilling resumed

1120: Sample Collected	LC34-DPT0918-025.0-20230919	(20)	Gray; No Odor
1135: Sample Collected	LC34-DPT0918-034.0-2023919	(20)	Gray; No Odor
1155: Sample Collected	LC34-DPT0918-038.0-20230919	(20)	Gray; No Odor

1210: LC34-DPT0918 pressure grouted 40' to surface through rods; mobilizing to decon area in4x4 cart
1230: Rods and associated tooling decon'd with pressurized steam
1240: Drilling Commenced on LC34-DPT0919 (Location 13); previously hand cleared 5'

1255: Sample Collected	LC34-DPT0919-008.0-20230919	(13)	Gray; No Odor
1310: Sample Collected	LC34-DPT0919-013.0-20230919	(13)	Gray; No Odor
1325: Sample Collected	LC34-DPT0919-018.0-20230919	(13)	Gray; No Odor
1340: Sample Collected	LC34-DPT0919-025.0-20230919	(13)	Gray; No Odor
1355: Sample Collected	LC34-DPT0919-034.0-20230919	(13)	Gray; No Odor

- CS Offsite to deliver samples to Courier

1410: Samples Delivered to courier

1415: Sample Collected	LC34-DPT0919-038.0-20230919	(13)	Gray; No Odor

1430: LC34-DPT0919 pressure grouted 40' to surface through rods
1435: Drilling Commenced on LC34-DPT0920 (Location 6); previously hand cleared 5'; using fresh rods/screens

1450: Sample Collected	LC34-DPT0920-008.0-20230919	(06)	Gray; No Odor
1505: Sample Collected	LC34-DPT0920-013.0-20230919	(06)	Gray; No Odor

1520:	Sample Collected	LC34-DPT0920-018.0-20230919	(06)	Gray; No Odor
1535:	Sample Collected	LC34-DPT0920-025.0-20230919	(06)	Gray; No Odor
1555:	Sample Collected	LC34-DPT0920-034.0-20230919	(06)	Gray; No Odor
1615:	Sample Collected	LC34-DPT0920-038.0-20230919	(06)	Gray; No Odor

1630: LC34-DPT0920 pressure grouted 40’ to surface through rods; mobilize to decon pit
1650: Rods and tooling decon’d with pressurized steam
1700: Site Secured; Tt/GPI offsite



09/20/2023 **LC34** **112G08985**

Personnel:	Chuck Sorden	(CS)	Geologist	Tt
	Mickey Ritter	(MR)	Driller	GPI
	Blake Handibode	(BH)	Tech	GPI

Weather: Sunny – 77 degrees F
PPE: Level D
Health and Safety (HAS): Topics – Insects/wildlife; PPE; Hydration
Objective: Continue LC34 202309 DPT GW Sampling Event

0700: Tt on site; daily prep
0720: GPI on site; HAS Meeting; daily prep; loading tooling and materials to head out to the work area
0745: GPI pulling rig out of woods to fuel/water setup
0805: Set up on LC34-DPT0921 (Location 07); hand clear 5'
0810: Drilling Commenced

0825:	Sample Collected	LC34-DPT0921-008.0-20230920	(07)	Gray; No Odor
0840:	Sample Collected	LC34-DPT0921-013.0-20230920	(07)	Gray; No Odor
0855:	Sample Collected	LC34-DPT0921-018.0-20230920	(07)	Gray; No Odor
0910:	Sample Collected	LC34-DPT0921-025.0-20230920	(07)	Gray; No Odor
0925:	Sample Collected	LC34-DPT0921-034.0-20230920	(07)	Gray; No Odor
0945:	Sample Collected	LC34-DPT0921-038.0-20230920	(07)	Gray; No Odor

1000: LC34-DPT0921 pressure grouted 40' to surface through rods
1005: Drilling Commenced on LC34-DPT0922 (Location 14); previously hand cleared 5'; using fresh rods/screens

1015:	Sample Collected	LC34-DPT0922-008.0-20230920	(14)	Gray; No Odor
1030:	Sample Collected	LC34-DPT0922-013.0-20230920	(14)	Gray; No Odor
1045:	Sample Collected	LC34-DPT0922-018.0-20230920	(14)	Gray; No Odor
1100:	Sample Collected	LC34-DPT0922-025.0-20230920	(14)	Gray; No Odor
1115:	Sample Collected	LC34-DPT0922-034.0-20230920	(14)	Gray; No Odor
1135:	Sample Collected	LC34-DPT0922-038.0-20230920	(14)	Gray; No Odor

1150: LC34-DPT0922 pressure grouted 40' to surface through rods; mobilizing to decon pit
1200: Arrive at decon
1215: Rods and tooling decon'd with pressurized steam
1230: Set up on LC34-DPT0923 (Location 21); hand clear 5'
1235: Drilling Commenced

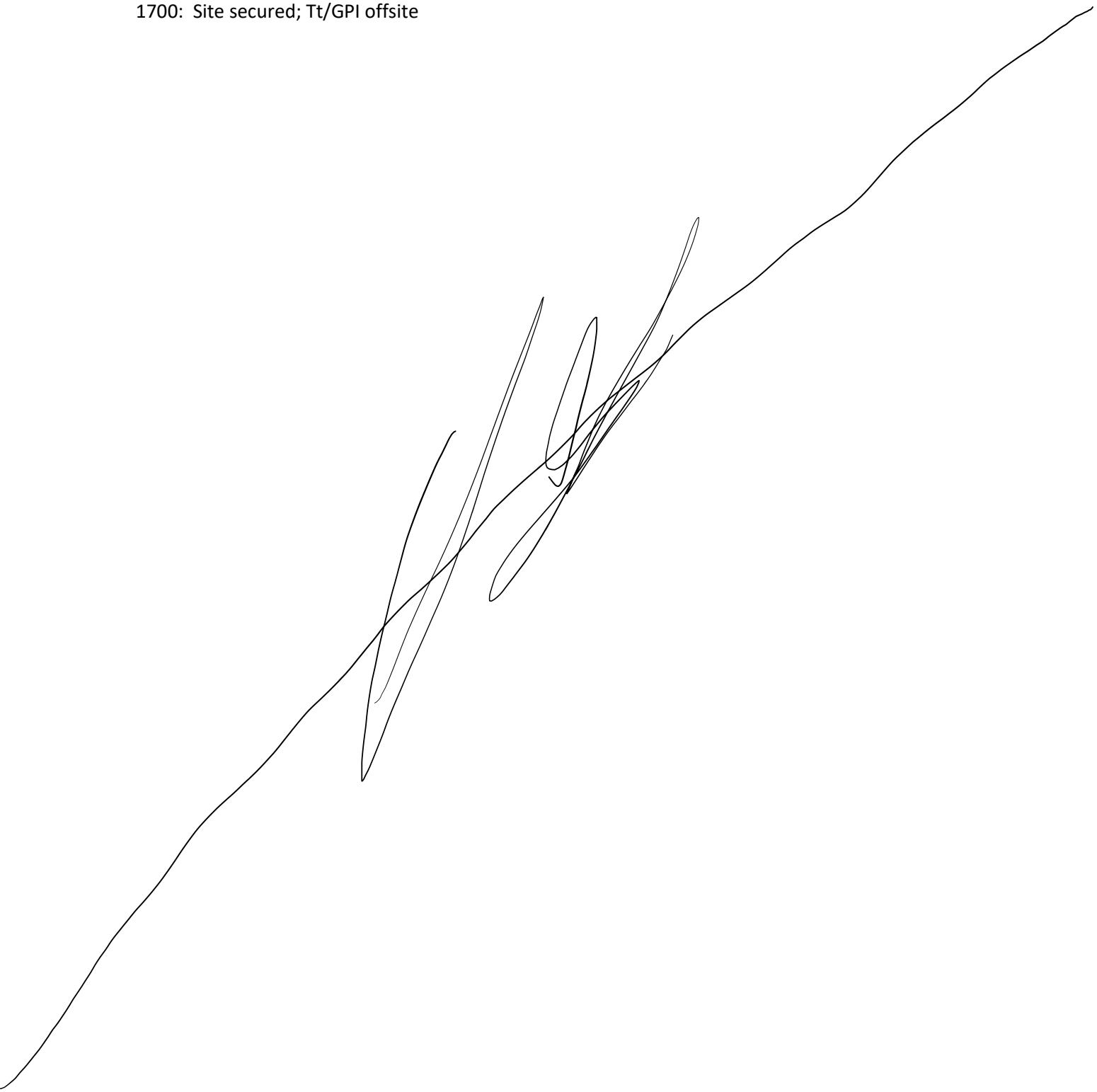
1245:	Sample Collected	LC34-DPT0923-008.0-20230920	(21)	Gray; No Odor
1300:	Sample Collected	LC34-DPT0923-013.0-20230920	(21)	Gray; No Odor
1315:	Sample Collected	LC34-DPT0923-018.0-20230920	(21)	Gray; No Odor
1330:	Sample Collected	LC34-DPT0923-025.0-20230920	(21)	Gray; No Odor
1345:	Sample Collected	LC34-DPT0923-034.0-20230920	(21)	Gray; No Odor
1405:	Sample Collected	LC34-DPT0923-038.0-20230920	(21	Gray; No Odor

- CS Offsite to meet courier

1420: C34-DPT0293 pressure grouted 40' to surface through rods; GPI mobilizing rig to pit o decon and fill rig with water
1440: Rig, rods, and tooling decon'd with pressurized steam; CS on site
1450: Set up on LC34-DPT0924 (Location 56); adjusted to the west along the cut approximately 30' due to a mud hole blocking access to the proposed location
1455: Drilling Commenced

1510:	Sample Collected	LC34-DPT0924-008.0-20230920	(56)	Gray; No Odor
1525:	Sample Collected	LC34-DPT0924-013.0-20230920	(56)	Gray; No Odor
1540:	Sample Collected	LC34-DPT0924-018.0-20230920	(56)	Gray; No Odor
1555:	Sample Collected	LC34-DPT0924-025.0-20230920	(56)	Gray; No Odor
1610:	Sample Collected	LC34-DPT0924-034.0-20230920	(56)	Gray; No Odor
1630:	Sample Collected	LC34-DPT0924-038.0-20230920	(56)	Gray; No Odor

1645: LC34-DPT0924 pressure grouted 40’ to surface through rods
1655: Set up on LC34-DPT0925 (Location 52); will begin drilling first thing tomorrow morning
1700: Site secured; Tt/GPI offsite



09/21/2023 **LC34** **112G08985**

Personnel:	Chuck Sorden	(CS)	Geologist	Tt
	Mickey Ritter	(MR)	Driller	GPI
	Blake Handibode	(BH)	Tech	GPI

Weather: Sunny – 77 degrees F

PPE: Level D

Health and Safety (HAS): Topics – Insects/wildlife; PPE; Hydration

Objective: Continue LC34 202309 DPT GW Sampling Event

0700:	CS on site			
0705:	GPI on site; HAS Meeting; daily prep			
0735:	Set up on LC34-DPT0925 (Location 52); hand clear 5'			
0740:	Drilling Commenced			
0755:	Sample Collected	LC34-DPT0925-008.0-20230921	(52)	Gray; No Odor
0810:	Sample Collected	LC34-DPT0925-013.0-20230921	(52)	Gray; No Odor
0825:	Sample Collected	LC34-DPT0925-018.0-20230921	(52)	Gray; No Odor
0840:	Sample Collected	LC34-DPT0925-025.0-20230921	(52)	Gray; No Odor
0855:	Sample Collected	LC34-DPT0925-034.0-20230921	(52)	Gray; No Odor
0915:	Sample Collected	LC34-DPT0925-038.0-20230921	(52)	Gray; No Odor
0930:	LC34-DPT0925 pressure grouted 40' to surface through rods; mob to decon pit			
0945:	Rig, rods, and tooling decon'd with pressurized steam			
0950:	Set up on LC34-DPT0926 (Location 48); hand clear 5'			
0955:	Drilling Commenced			
1005:	Sample Collected	LC34-DPT0926-008.0-20230921	(48)	Gray; No Odor
1020:	Sample Collected	LC34-DPT0926-013.0-20230921	(48)	Gray; No Odor
1035:	Sample Collected	LC34-DPT0926-018.0-20230921	(48)	Gray; No Odor
1055:	Sample Collected	LC34-DPT0926-025.0-20230921	(48)	Gray; No Odor
1115:	Sample Collected	LC34-DPT0926-034.0-20230921	(48)	Gray; No Odor
1135:	Sample Collected	LC34-DPT0926-038.0-20230921	(48)	Gray; No Odor
1150:	LC34-DPT0926 pressure grouted 40' to surface through rods			
1155:	Set up on LC34-DPT0927 (Location 44); hand clear 5'; using fresh rods and screens			
1200:	Drilling Commenced			
1210:	Sample Collected	LC34-DPT0927-008.0-20230921	(44)	Gray; No Odor
1225:	Sample Collected	LC34-DPT0927-013.0-20230921	(44)	Gray; No Odor
1240:	Sample Collected	LC34-DPT0927-018.0-20230921	(44)	Gray; No Odor
1255:	Sample Collected	LC34-DPT0927-025.0-20230921	(44)	Gray; No Odor
1315:	Sample Collected	LC34-DPT0927-034.0-20230921	(44)	Gray; No Odor
1335:	Sample Collected	LC34-DPT0927-038.0-20230921	(44)	Gray; No Odor
1355:	LC34-DPT0927 pressure grouted 40' to surface through rods; mobilizing to decon pit			
1400:	CS offsite to deliver samples to courier			
1415:	Rig, rods, and tooling Decon'd with pressurized steam			
1420:	Set up on LC34-DPT0928 (Location 38); hand clear 5'			
1425:	Drilling Commenced			
1435:	Sample Collected	LC34-DPT0928-008.0-20230921	(38)	Gray; No Odor
1440:	CS On site			
1450:	Sample Collected	LC34-DPT0928-013.0-20230921	(38)	Gray; No Odor
1505:	Sample Collected	LC34-DPT0928-018.0-20230921	(38)	Gray; No Odor
1525:	Sample Collected	LC34-DPT0928-025.0-20230921	(38)	Gray; No Odor

1545: Sample Collected LC34-DPT0928-034.0-20230921 (38) Gray; No Odor
1605: Sample Collected LC34-DPT0928-038.0-20230921 (38) Gray; No Odor
1620: LC34-DPT0928 pressure grouted 40’ to surface through rods; mobilize to decon pit to fill rig with water/decon
1635: Rig, rods, and tooling decon’d with pressurized steam
1645: Set up on LC34-DPT0929 (Location 32); will start drilling first thing tomorrow morning
1700: Site Secured; Tt/GPI offsite

09/22/2023 **LC34** **112G08985**

Personnel:	Chuck Sorden	(CS)	Geologist	Tt
	Mickey Ritter	(MR)	Driller	GPI
	Blake Handibode	(BH)	Tech	GPI

Weather: Sunny – 77 degrees F

PPE: Level D

Health and Safety (HAS): Topics – Insects/wildlife; PPE; Hydration

Objective: Continue LC34 202309 DPT GW Sampling Event

0700: CS on site
0715: GPI on site; HAS Meeting; daily prep
0740: Set up on LC34-DPT0929 (Location 32); hand clear 5'
0745: Drilling Commenced

0800:	Sample Collected	LC34-DPT0929-008.0-20230922	(32)	Gray; No Odor
0815:	Sample Collected	LC34-DPT0929-013.0-20230922	(32)	Gray; No Odor
0830:	Sample Collected	LC34-DPT0929-018.0-20230922	(32)	Gray; No Odor
0845:	Sample Collected	LC34-DPT0929-025.0-20230922	(32)	Gray; No Odor
0900:	Sample Collected	LC34-DPT0929-034.0-20230922	(32)	Gray; No Odor
0920:	Sample Collected	LC34-DPT0929-038.0-20230922	(32)	Gray; No Odor

0935: LC34-DPT0929 pressure grouted 40' to surface through rods; BH Deconning rods/screens
0940: Set up on LC34-DPT0929 (Location 26); hand clear 5'; using fresh rods and screens
0945: Drilling Commenced

0955:	Sample Collected	LC34-DPT0930-008.0-20230922	(26)	Gray; No Odor
1010:	Sample Collected	LC34-DPT0930-013.0-20230922	(26)	Gray; No Odor
1025:	Sample Collected	LC34-DPT0930-018.0-20230922	(26)	Gray; No Odor
1040:	Sample Collected	LC34-DPT0930-025.0-20230922	(26)	Gray; No Odor
1100:	Sample Collected	LC34-DPT0930-034.0-20230922	(26)	Gray; No Odor
1125:	Sample Collected	LC34-DPT0930-038.0-20230922	(26)	Gray; No Odor

- Poor Producing Formation

1145: LC34-DPT0930 pressure grouted 40' to surface through rods
1150: Set up on LC34-DPT0931 (Location 19); hand clear 5'
1200: Drilling Commenced

1215:	Sample Collected	LC34-DPT0931-008.0-20230922	(19)	Gray; No Odor
1230:	Sample Collected	LC34-DPT0931-013.0-20230922	(19)	Gray; No Odor
1245:	Sample Collected	LC34-DPT0931-018.0-20230922	(19)	Gray; No Odor
1305:	Sample Collected	LC34-DPT0931-025.0-20230922	(19)	Gray; No Odor
1325:	Sample Collected	LC34-DPT0931-034.0-20230922	(19)	Gray; No Odor
1345:	Sample Collected	LC34-DPT0931-038.0-20230922	(19)	Gray; No Odor

1405: LC34-DPT0931 pressure grouted 40' to surface through rods; mobilizing rig to decon pit; CS offsite to deliver samples to Courier
1430: Rig, rods, and tooling decon'd with pressurized steam; GPI offsite with box truck and rig trailer. Will return next week with a flatbed truck only
1500: CS on site; verifying trails at northeastern area
1600: Site secured; Tt offsite

09/25/2023 **LC34** **112G08985**

Personnel:	Chuck Sorden	(CS)	Geologist	Tt
	Mickey Ritter	(MR)	Driller	GPI
	Blake Handibode	(BH)	Tech	GPI

Weather: Sunny – 77 degrees F
PPE: Level D
Health and Safety (HAS): Topics – Insects/wildlife; PPE; Hydration
Objective: Continue LC34 202309 DPT GW Sampling Event

0800: CS on base; gathering equipment and supplies
0830: GPI on site; HAS Meeting; daily prep; unloading tooling and materials
0900: Set up on LC34-DPT0932 (Location 12); hand clear 5'
0910: Drilling Commenced

0925:	Sample Collected	LC34-DPT0932-008.0-20230925	(12)	Gray; No Odor
0940:	Sample Collected	LC34-DPT0932-013.0-20230925	(12)	Gray; No Odor
0955:	Sample Collected	LC34-DPT0932-018.0-20230925	(12)	Gray; No Odor
1010:	Sample Collected	LC34-DPT0932-025.0-20230925	(12)	Gray; No Odor
1030:	Sample Collected	LC34-DPT0932-034.0-20230925	(12)	Gray; No Odor
1050:	Sample Collected	LC34-DPT0932-038.0-20230925	(12)	Gray; No Odor

1105: LC34-DPT0932 pressure grouted 40' to surface through rods
1110: Drilling Commenced on LC34-DPT0933 (Location 5); previously hand cleared 5'

1125:	Sample Collected	LC34-DPT0933-008.0-20230925	(05)	Gray; No Odor
1140:	Sample Collected	LC34-DPT0933-013.0-20230925	(05)	Gray; No Odor
1155:	Sample Collected	LC34-DPT0933-018.0-20230925	(05)	Gray; No Odor
1215:	Sample Collected	LC34-DPT0933-025.0-20230925	(05)	Gray; No Odor
1235:	Sample Collected	LC34-DPT0933-034.0-20230925	(05)	Gray; No Odor
1255:	Sample Collected	LC34-DPT0933-038.0-20230925	(05)	Gray; No Odor

1310: LC34-DPT0933 pressure grouted 40' to surface through rods; mobilizing out of western area to decon in field, then head to northeastern section
1335: Rig, rods, and tooling decon'd with pressurized steam; begin mobilizing rig to Location 107 on the northeastern portion of the site
1405: Set up on LC34-DPT0934 (Location 107); hand clear 5'
1410: Drilling Commenced

1425:	Sample Collected	LC34-DPT0934-008.0-20230925	(107)	Gray; No Odor
1440:	Sample Collected	LC34-DPT0934-013.0-20230925	(107)	Gray; No Odor
1500:	Sample Collected	LC34-DPT0934-018.0-20230925	(107)	Gray; No Odor
1520:	Sample Collected	LC34-DPT0934-025.0-20230925	(107)	Gray; No Odor
1540:	Sample Collected	LC34-DPT0934-034.0-20230925	(107)	Gray; No Odor
1600:	Sample Collected	LC34-DPT0934-038.0-20230925	(107)	Gray; No Odor

1615: LC34-DPT0934 pressure grouted 40' to surface through rods; mobilizing to decon area
1635: Rig, rods, and tooling decon'd with steam; setting up on LC34-DPT0935 (Location 108)
1645: Site secured; Tt/GPI offsite

09/26/2023 **LC34** **112G08985**

Personnel:	Chuck Sorden	(CS)	Geologist	Tt
	Mickey Ritter	(MR)	Driller	GPI
	Blake Handibode	(BH)	Tech	GPI

Weather: Sunny – 77 degrees F
PPE: Level D
Health and Safety (HAS): Topics – Insects/wildlife; PPE; Hydration
Objective: Continue LC34 202309 DPT GW Sampling Event

0650: Tt/GPI on site; HAS Meeting; daily prep
0715: Set up on LC34-DPT0935 (Location 108); hand clear 5'
0720: Drilling Commenced

0735:	Sample Collected	LC34-DPT0935-008.0-20230926	(108)	Gray; No Odor
0750:	Sample Collected	LC34-DPT0935-013.0-20230026	(108)	Gray; No Odor
0805:	Sample Collected	LC34-DPT0935-018.0-20230926	(108)	Gray; No Odor
0820:	Sample Collected	LC34-DPT0935-025.0-20230926	(108)	Gray; No Odor
0840:	Sample Collected	LC34-DPT0935-034.0-20230926	(108)	Gray; No Odor
0900:	Sample Collected	LC34-DPT0935-038.0-20230926	(108)	Gray; No Odor

0915: LC34-DPT0935 pressure grouted 40' to surface through rods; BH/MR Deconning
0930: Set up on LC34-DPT0936 (Location 109); hand clear 5'
0935: Drilling Commenced

0950:	Sample Collected	LC34-DPT0936-008.0-20230926	(109)	Gray; No Odor
1005:	Sample Collected	LC34-DPT0936-013.0-20230926	(109)	Gray; No Odor
1020:	Sample Collected	LC34-DPT0936-018.0-20230926	(109)	Gray; No Odor
1035:	Sample Collected	LC34-DPT0936-025.0-20230926	(109)	Gray; No Odor
1055:	Sample Collected	LC34-DPT0936-034.0-20230926	(109)	Gray; No Odor
1115:	Sample Collected	LC34-DPT0936-038.0-20230926	(109)	Gray; No Odor

1130: LC34-DPT0936 pressure grouted 40' to surface through rods; BH deconning
1140: Drilling Commenced on LC34-DPT0937 (Location 110); previously hand cleared 5'

1155:	Sample Collected	LC34-DPT0937-008.0-20230926	(110)	Gray; No Odor
1210:	Sample Collected	LC34-DPT0937-013.0-20230926	(110)	Gray; No Odor
1225:	Sample Collected	LC34-DPT0937-018.0-20230926	(110)	Gray; No Odor
1245:	Sample Collected	LC34-DPT0937-025.0-20230926	(110)	Gray; No Odor
1305:	Sample Collected	LC34-DPT0937-034.0-20230926	(110)	Gray; No Odor
1325:	Sample Collected	LC34-DPT0937-038.0-20230926	(110)	Gray; No Odor

1340: LC34-DPT0937 pressure grouted 40' to surface through rods; BH Deconning
1350: Set up on LC34-DPT0938 (Location 112); hand clear 5'
1355: Drilling Commenced

1410:	Sample Collected	LC34-DPT0938-008.0-20230926	(112)	Gray; No Odor

1415: Samples from 09/25 through DPT0937-038.0 on 09/26 relinquished in a custody sealed cooler to Aaron Kupper (AK) of Tetra Tech to deliver samples to Courier

1430:	Sample Collected	LC34-DPT0938-013.0-20230926	(112)	Gray; No Odor
1445:	Sample Collected	LC34-DPT0938-018.0-20230926	(112)	Gray; No Odor
1500:	Sample Collected	LC34-DPT0938-025.0-20230926	(112)	Gray; No Odor
1515:	Sample Collected	LC34-DPT0938-034.0-20230926	(112)	Gray; No Odor
1535:	Sample Collected	LC34-DPT0938-038.0-20230926	(112)	Gray; No Odor

1550: LC34-DPT0938 pressure grouted 40' to surface through rods

1600: Drilling Commenced on LC34-DPT0939 (Location 102); previously hand cleared 5’; using fresh rods/screens

1610: Sample Collected	LC34-DPT0939-008.0-20230926	(102)	Gray; No Odor
1620: Sample Collected	LC34-DPT0939-013.0-20230926	(102)	Gray; No Odor
1630: Sample Collected	LC34-DPT0939-018.0-20230926	(102)	Gray; No Odor
1645: Sample Collected	LC34-DPT0939-025.0-20230926	(102)	Gray; No Odor
1700: Sample Collected	LC34-DPT0939-034.0-20230926	(102)	Gray; No Odor
1715: GPI offsite			
1720: Sample Collected	LC34-DPT0939-038.0-20230926	(102)	Gray; No Odor

09/27/2023 **LC34** **112G08985**

Personnel:	Chuck Sorden	(CS)	Geologist	Tt
	Mickey Ritter	(MR)	Driller	GPI
	Blake Handibode	(BH)	Tech	GPI

Weather: Sunny – 77 degrees F
PPE: Level D
Health and Safety (HAS): Topics – Insects/wildlife; PPE; Hydration
Objective: Continue LC34 202309 DPT GW Sampling Event

0700: Tt on site; daily prep
0720: GPI on site; long lines at inspection; HAS Meeting; daily prep
0745: LC34-DPT0939 pressure grouted 40' to surface through rods
0805: Rig, rods, and tooling decon'd with pressurized steam
0810: Set up on LC34-DPT0940 (Location 80); hand clear 5'

0825: Sample Collected	LC34-DPT0940-008.0-20230927	(80)	Gray; No Odor
0840: Sample Collected	LC34-DPT0940-013.0-20230927	(80)	Gray; No Odor
0900: Sample Collected	LC34-DPT0940-018.0-20230927	(80)	Gray; No Odor
0920: Sample Collected	LC34-DPT0940-025.0-20230927	(80)	Gray; No Odor
0940: Sample Collected	LC34-DPT0940-034.0-20230927	(80)	Gray; No odor
1000: Sample Collected	LC34-DPT0940-038.0-20230927	(80)	Gray; No Odor

1015: LC34-DPT0940 pressure grouted 40' to surface through rods
1025: Drilling Comenced on LC34-DPT0941 (Location 91); previously hand cleared 5'; using fresh rods/screens

1040: Sample Collected	LC34-DPT0941-008.0-20230927	(91)	Gray; No Odor
1055: Sample Collected	LC34-DPT0941-013.0-20230927	(91)	Gray; No Odor
1110: Sample Collected	LC34-DPT0941-018.0-20230927	(91)	Gray; No Odor
1125: Sample Collected	LC34-DPT0941-025.0-20230927	(91)	Gray; No Odor
1140: Sample Collected	LC34-DPT0941-034.0-20230927	(91)	Gray; No Odor
1200: Sample Collected	LC34-DPT0941-038.0-20230927	(91)	Gray; No Odor

1215: LC34-DPT0942 pressure grouted 40' to surface through rods; BH deconning
1225: Drilling Commenced on LC34-DPT0942 (Location 90); previously hand cleared 5'

1240: Sample Collected	LC34-DPT0942-008.0-20230927	(90)	Gray; No Odor
1255: Sample Collected	LC34-DPT0942-013.0-20230927	(90)	Gray; No Odor
1310: Sample Collected	LC34-DPT0942-018.0-20230927	(90)	Gray; No Odor
1325: Sample Collected	LC34-DPT0942-025.0-20230927	(90)	Gray; No Odor
1340: Sample Collected	LC34-DPT0942-034.0-20230927	(90)	Gray; No Odor
1405: Sample Collected	:C34-DPT0942-038.0-20230927	(90)	Gray; No Odor

1415: CS Offsite to meet Courier
1420: LC34-DPT0942 pressure grouted 40' to surface through rods; BH deconning
1425: Samples Delivered to Courier
1440: CS on site; Drilling Commenced on LC34-DPT0943 (Location 89); previously hand cleared 5'

1450: Sample Collected	LC34-DPt0943-008.0-20230927	(89)	Gray; No Odor
1505: Sample Collected	LC34-DPT0943-013.0-20230927	(89)	Gray; No Odor
1520: Sample Collected	LC34-DPT0943-018.0-20230927	(89)	Gray; No Odor
1540: Sample Collected	LC34-DPT0943-025.0-20230927	(89)	Gray; No Odor

- Inclement weather approaching rapidly; securing site

1555: Site secured; Tt/GPI offsite

09/28/2023 **LC34** **112G08985**

Personnel:	Chuck Sorden	(CS)	Geologist	Tt
	Mickey Ritter	(MR)	Driller	GPI
	Blake Handibode	(BH)	Tech	GPI

Weather: Sunny – 77 degrees F

PPE: Level D

Health and Safety (HAS): Topics – Insects/wildlife; PPE; Hydration

Objective: Continue LC34 202309 DPT GW Sampling Event

0650: CS on site; daily prep
0715: GPI on site; HAS Meeting; daily prep
0730: Drilling resumed on LC34-DPT0934 to collect 34' sample
0755: Sample Collected LC34-DPT0943-034.0-20230928 (89) Gray; No Odor
0820: Sample Collected LC34-DPT0943-038.0-20230928 (89) Gray; No Odor
0835: LC34-DPT0934 pressure grouted 40' to surface through rods; BH deconning
0845: Drilling Commenced on LC34-DPT0944 (Location 88); previously hand cleared 5'; using fresh rods and screens
0900: Sample Collected LC34-DPT0944-008.0-20230928 (88) Gray; No Odor
0915: Sample Collected LC34-DPT0944-013.0-20230928 (88) Gray; No Odor
0930: Sample Collected LC34-DPT0944-018.0-20230928 (88) Gray; No Odor
0945: Sample Collected LC34-DPT0944-025.0-20230928 (88) Gray; No Odor
1005: Sample Collected LC34-DPT0944-034.0-20230928 (88) Gray; No Odor
1025: Sample Collected LC34-DPT0944-038.0-20230928 (88) Gray; No Odor
1040: LC34-DPT0944 pressure grouted 40' to surface through rods; BH Deconning
1050: Drilling Commenced on LC34-DPT0945 (Location 87); previously hand cleared 5'; using fresh rods/screens
1105: Sample Collected LC34-DPT0945-008.0-20230928 (87) Gray; No Odor
1120: Sample Collected LC34-DPT0945-013.0-20230928 (87) Gray; No Odor
1135: Sample Collected LC34-DPT0945-018.0-20230928 (87) Gray; No Odor
1150: Sample Collected LC34-DPT0945-025.0-20230928 (87) Gray; No Odor
1205: Sample Collected LC34-DPT0945-034.0-20230928 (87) Gray; No Odor
1220: Sample Collected LC34-DPT0945-038.0-20230928 (87) gray; No Odor
1235: LC34-DPT0945 pressure grouted 40' to surface through rods; BH Deconning
1245: Drilling Commenced on LC34-DPT0946 (Location 85); previously hand cleared 5'; moved approximately 15' away from pad to avoid concrete culvert structures; using fresh rods/screens; Adjusting depths 4' deeper to account for grade change; nomenclature depths remain the same for consistency
1255: Sample Collected LC34-DPT0946-008.0-20230928 e) Gray; No Odor
1310: Sample Collected LC34-DPT0946-013.0-20230928 (85) Gray; No Odor
1325: Sample Collected LC34-DPT0946-018.0-20230928 (85) Gray; No Odor
1340: Sample Collected LC34-DPT0946-025.0-20230928 (85) Gray; No Odor
1355: Sample Collected LC34-DPT0946-034.0-20230928 (85) Gray; No Odor
1415: Sample Collected LC34-DPT0946-038.0-20230928 (85) Gray; No Odor
- CS Delivering Samples to courier

1435: LC34-DPT0946 pressure grouted 40' to surface through rods; BH deconning
1445: CS on site; Drilling Commenced on LC34-DPT0947 (Location 95); hand cleared 5'

1455: Sample Collected	LC34-DPT0947-008.0-20230928	(95)	Gray; No Odor
1510: Sample Collected	LC34-DPT0947-013.0-20230928	(95)	Gray; No Odor
1525: Sample Collected	LC34-DPT0947-018.0-20230928	(95)	Gray; No Odor
1545: Sample Collected	LC34-DPT0947-025.0-20230928	(95)	Gray; No Odor
1605: Sample Collected	LC34-DPT0947-034.0-20230928	(95)	Gray; No Odor
1625: Sample Collected	LC34-DPT0947-038.0-20230928	(95)	Gray; No Odor

1640: LC34-DPT0947 pressure grouted 40’ to surface through rods; BH deconning
1700: Site secured; Tt/GPI offsite

09/29/2023 **LC34** **112G08985**

Personnel:	Chuck Sorden	(CS)	Geologist	Tt
	Mickey Ritter	(MR)	Driller	GPI
	Blake Handibode	(BH)	Tech	GPI

Weather: Sunny – 77 degrees F
PPE: Level D
Health and Safety (HAS): Topics – Insects/wildlife; PPE; Hydration
Objective: Continue LC34 202309 DPT GW Sampling Event

0700:	Tt/GPI on site; HAS Meeting; daily prep			
0735:	Set up on LC34-DPT0948 (Location 96); hand clear 5’			
0745:	Drilling Commenced			
0800:	Sample Collected	LC34-DPT0948-008.0-20230929	(96)	Gray; No Odor
0815:	Sample Collected	LC34-DPT0948-013.0-20230929	(96)	Gray; No Odor
0830:	Sample Collected	LC34-DPT0948-018.0-20230929	(96)	Gray; No Odor
0850:	Sample Collected	LC34-DPT0948-025.0-20230929	(96)	Gray; No Odor
0910:	Sample Collected	LC34-DPT0948-034.0-20230929	(96)	Gray; No Odor
0930:	Sample Collected	LC34-DPT0948-038.0-20230929	(96)	Gray; No Odor
0945:	LC34-DPT0948 pressure grouted 40’ to surface through rods; BH deconning			
0955:	Drilling Commenced on LC34-DPT0949 (Location 97); previously hand cleared 5’			
1010:	Sample Collected	LC34-DPT0949-008.0-20230929	(97)	Gray; No Odor
1025:	Sample Collected	LC34-DPT0949-013.0-20230929	(97)	Gray; No Odor
1040:	Sample Collected	LC34-DPT0949-018.0-20230929	(97)	Gray; No Odor
1100:	Sample Collected	LC34-DPT0949-025.0-20230929	(97)	Gray; No Odor
1120:	Sample Collected	LC34-DPT0949-034.0-20230929	(97)	Gray; No Odor
1140:	Sample Collected	LC34-DPT0949-038.0-20230929	(97)	Gray; No Odor
1155:	LC34-DPT0949 pressure grouted 40’ to surface through rods; BH deconning			
1210:	Drilling Commenced on LC34-DPT0950 (Location 98); previously hand cleared 5’			
1225:	Sample Collected	LC34-DPT0950-008.0-20230929	(98)	Gray; No Odor
1240:	Sample Collected	LC34-DPT0950-013.0-20230929	(98)	Gray; No Odor
1255:	Sample Collected	LC34-DPT0950-018.0-20230929	(98)	Gray; No Odor
1315:	Sample Collected	LC34-DPT0950-025.0-20230929	(98)	Gray; No Odor
1335:	Sample Collected	LC34-DPT0950-034.0-20230929	(98)	Gray; No Odor
1355:	Sample Collected	LC34-DPT0950-038.0-20230929	(98)	Gray; No Odor
1410:	LC34-DPT0950 pressure grouted 40’ to surface through rods; BH deconning			
1415:	CS offsite to delver samples to courier			
1430:	GPI offsite			
1530:	Site Secured; Tt offsite			

10/02/2023 **LC34** **112G08985**

Personnel:	Chuck Sorden	(CS)	Geologist	Tt
	Mickey Ritter	(MR)	Driller	GPI
	Blake Handibode	(BH)	Tech	GPI

Weather: Sunny – 82 degrees F, windy with intermittent rain showers

PPE: Level D

Health and Safety (HAS): Topics – Insects/wildlife; PPE; Hydration

Objective: Continue LC34 202309 DPT GW Sampling Event

0830: Tt/GPI on site; HAS Meeting; daily prep
0905: Set up on LC34-DPT0951 (Location 99); hand clear 5'
0910: Drilling Commenced

0925:	Sample Collected	LC34-DPT0951-008.0-20231002	(99)	Gray; No Odor
0940:	Sample Collected	LC34-DPT0951-013.0-20231002	(99)	Gray; No Odor
0955:	Sample Collected	LC34-DPT0951-018.0-20231002	(99)	Gray; No Odor
1010:	Sample Collected	LC34-DPT0951-025.0-20231002	(99)	Gray; No Odor
1030:	Sample Collected	LC34-DPT0951-034.0-20231002	(99)	Gray; No Odor
1050:	Sample Collected	LC34-DPT0951-038.0-20231002	(99)	Gray; No Odor

1105: LC34-DPT0951 pressure grouted 40' to surface through rods; BH Deconning
1115: Set up on LC34-DPT0952 (Location 100);hand clear 5'
1120: Drilling Commenced

1135:	Sample Collected	LC34-DPT0952-008.0-20231002	(100)	Gray; No Odor
1150:	Sample Collected	LC34-DPT0952-013.0-20231002	(100)	Gray; No Odor
1205:	Sample Collected	LC34-DPT0952-018.0-20231002	(100)	Gray; No Odor
1220:	Sample Collected	LC34-DPT0952-025.0-20231002	(100)	Gray; No Odor
1240:	Sample Collected	LC34-DPT0952-034.0-20231002	(100)	Gray; No Odor
1300:	Sample Collected	LC34-DPT0952-038.0-20231002	(100)	Gray; No Odor

1315: LC34-DPT00952 pressure grouted 40' to surface through rods; BH deconning
1330: Set up on LC34-DPT0953 (Location 101); hand clear 5'
1335: Drilling Commenced

1350:	Sample Collected	LC34-DPT0953-008.0-20231002	(101)	Gray; No Odor
1405:	Sample Collected	LC34-DPT0953-013.0-20231002	(101)	Gray; No Odor
1420:	Sample Collected	LC34-DPT0953-018.0-20231002	(101)	Gray; No Odor
1440:	Sample Collected	LC34-DPT0953-025.0-20231002	(101)	Gray; No Odor
1500:	Sample Collected	LC34-DPT0953-034.0-20231002	(101)	Gray; No Odor
1520:	Sample Collected	LC34-DPT0953-038.0-20231002	(101)	Gray; No Odor

1540: LC34-DPT0953 pressure grouted 40' to surface through rods
1600: Rig; rods, and tooling decon'd with pressurized steam; begin mobilizing rig and equipment over to the west side of the HCS to LC34-DPT0954 (Location 04)
1630: Arrive at LC34-DPT0954 (Location 04); Tt/GPI offsite

10/03/2023 **LC34** **112G08985**

Personnel:	Chuck Sorden	(CS)	Geologist	Tt
	Mickey Ritter	(MR)	Driller	GPI
	Blake Handibode	(BH)	Tech	GPI

Weather: Smoky/foggy 79 degrees F
PPE: Level D
Health and Safety (HAS): Topics – Insects/wildlife; PPE; Hydration
Objective: Continue LC34 202309 DPT GW Sampling Event

0700: Tt/GPI on site; HAS Meeting; Daily prep
0740: Set up on LC34-DPT0954 (Location 4); hand clear 5'
0745: Drilling Commenced

0800: Sample Collected	LC34-DPT0954-008.0-20231003	(04)	Gray; No Odor
0815: Sample Collected	LC34-DPT0954-013.0-20231003	(04)	Gray; No Odor
0830: Sample Collected	LC34-DPT0954-018.0-20231003	(04)	Gray; No Odor
0850: Sample Collected	LC34-DPT0954-025.0-20231003	(04)	Gray; No Odor
0910: Sample Collected	LC34-DPT0954-034.0-20231003	(04)	Gray; No Odor
0930: Sample Collected	LC34-DPT0954-038.0-20231003	(04)	Gray; No Odor

0945: LC34-DPT0955 pressure grouted 40' to surface through rods
0950: Set up on LC34-DPT0955 (Location 11); hand clear 5'
0955: Drilling Commenced

1010: Sample Collected	LC34-DPT0955-008.0-20231003	(11)	Gray; No Odor
1025: Sample Collected	LC34-DPT0955-013.0-20231003	(11)	Gray; No Odor
1040: Sample Collected	LC34-DPT0955-018.0-20231003	(11)	Gray; No Odor
1100: Sample Collected	LC34-DPT0955-025.0-20231003	(11)	Gray; No Odor
1120: Sample Collected	LC34-DPT0955-034.0-20231003	(11)	Gray; No Odor
1140: Sample Collected	LC34-DPT0955-038.0-20231003	(11)	Gray; No Odor

1155: LC34-DPT0955 pressure grouted 40' to surface through rods; BH deconning
1205: Drilling Commenced on LC34-DPT0956 (Location 18); previously hand cleared 5'; using fresh rods and screens

1220: Sample Collected	LC34-DPT0956-008.0-20231003	(18)	Gray; No Odor
1235: Sample Collected	LC34-DPT0956-013.0-20231003	(18)	Gray; No Odor
1250: Sample Collected	LC34-DPT0956-018.0-20231003	(18)	Gray; No Odor
1310: Sample Collected	LC34-DPT0956-025.0-20231003	(18)	Gray; No Odor
1330: Sample Collected	LC34-DPT0956-034.0-20231003	(18)	Gray; No Odor
1350: Sample Collected	LC34-DPT0956-038.0-20231003	(18)	Gray; No Odor

1405: LC34-DPT0956 pressure grouted 40' to surface through rods; BH deconning
1415: Drilling Commenced on LC34-DPT0957 (Location 25); previously hand cleared 5' using fresh rods/screens

1430: Sample Collected	LC34-DPT0957-008.0-20231003	(25)	Gray; No Odor
1445: Sample Collected	LC34-DPT0957-013.0-20231003	(25)	Gray; No Odor
1500: Sample Collected	LC34-DPT0957-018.0-20231003	(25)	Gray; No Odor

- Air sparging influence observed at this depth. Formational water was observed mildly bubbling out of the drill rods initially when the screen was exposed; PID readings = 0.0 BZ and BH
- Small (approximately 1-2mm) gulf coast tick observed climbing up pant leg on CS

1520: Sample Collected	LC34-DPT0957-025.0-20231003	(25)	Gray; No Odor
1540: Sample Collected	LC34-DPT0957-034.0-20231003	(25)	Gray; No Odor

1600: Sample Collected LC34-DPT0957-038.0-20231003 (25) Gray; No Odor
1615: LC34-DPT0957 pressure grouted 40’ to surface through rods; BH Deconning
1625: Drilling Commenced on LC34-DPT0958 (Location 31); previously hand cleared 5’; using fresh rods/screens
1635: Sample Collected LC34-DPT0958-008.0-20231003 (31) Gray; No Odor
1650: Sample Collected LC34-DPT0958-013.0-2023100 (31) Gray; No Odor
1700: Site Secured; Tt/GPI offsite

10/04/2023 **LC34** **112G08985**

Personnel:	Chuck Sorden	(CS)	Geologist	Tt
	Mickey Ritter	(MR)	Driller	GPI
	Blake Handibode	(BH)	Tech	GPI

Weather: Smoky/foggy 79 degrees F
PPE: Level D
Health and Safety (HAS): Topics – Insects/wildlife; PPE; Hydration
Objective: Continue LC34 202309 DPT GW Sampling Event

0700: Tt/GPI on site; HAS Meeting; daily prep
0735: Drilling resumed on LC34-DPT0958

0755: Sample Collected	LC34-DPT0958-018.0-20231004	(31)	Gray; No Odor
0815: Sample Collected	LC34-DPT0958-025.0-20231004	(31)	Gray; No Odor
0835: Sample Collected	LC34-DPT0958-034.0-20231004	(31)	Gray; No Odor
0855: Sample Collected	LC34-DPT0958-038.0-20231004	(31)	Gray; No Odor

0910: LC34-DPT0958 pressure grouted 40’ to surface through rods; BH deconning
0925: Drilling Commenced on LC34-DPT0959 (Location 37); previously hand cleared 5’; using fresh rods/screens

0940: Sample Collected	LC34-DPT0959-008.0-20231004	(37)	Gray; No Odor
0955: Sample Collected	LC34-DPT0959-013.0-20231004	(37)	Gray; No Odor
1010: Sample Collected	LC34-DPT0959-018.0-20231004	(37)	Gray; No Odor
1030: Sample Collected	LC34-DPT0959-025.0-20231004	(37)	Gray; No Odor
1050: Sample Collected	LC34-DPT0959-034.0-20231004	(37)	Gray; No Odor
1110: Sample Collected	LC34-DPT0959-038.0-20231004	(37)	Gray’ No Odor

1125: LC34-DPT0959 pressure grouted 40’ to surface through rods; BH deconning
1135: Drilling Commenced on LC34-DPT0960 (Location 43); previously hand cleared 5’; using fresh rods/screens

1150: Sample Collected	LC34-DPT0960-008.0-20231004	(43)	Gray; No Odor
1205: Sample Collected	LC34-DPT0960-013.0-20231004	(43)	Gray; No Odor
1220: Sample Collected	LC34-DPT0960-018.0-20231004	(43)	Gray; No Odor
1240: Sample Collected	LC34-DPT0960-025.0-20231004	(43)	Gray; No Odor
1300: Sample Collected	LC34-DPT0960-034.0-20231004	(43)	Gray; No Odor
1320: Sample Collected	LC34-DPT0960-038.0-20231004	(43)	Gray; No Odor

1335: LC34-DPT0960 pressure grouted 40’ to surface through rods; BH deconning
1345: Drilling Commenced on LC34-DPT0951 (Location 47); previously hand cleared 5’; using fresh rods/screens

1400: Sample Collected	LC34-DPT0961-008.0-20231004	(47)	Gray; No Odor
1415: Sample Collected	LC34-DPT0961-013.0-20231004	(47)	Gray; No Odor
1430: Sample Collected	LC34-DPT0961-018.0-20231004	(47)	Gray; No Odor
1450: Sample Collected	LC34-DPT0961-025.0-20231004	(47)	Gray; No Odor
1510: Sample Collected	LC34-DPT0961-034.0-20231004	(47)	Gray; No Odor
1530: Sample Collected	LC34-DPT0961-038.0-20231004	(47)	Gray; No Odor

1545: LC34-DPT0961 pressure grouted 40’ to surface through rods; BH deconning
1555: Drilling Commenced on LC34-DPT0962 (Location 51); previously hand cleared 5’

1610: Sample Collected	LC34-DPT0962-008.0-20231004	(51)	Gray; No Odor
1625: Sample Collected	LC34-DPT0962-013.0-20231004	(51)	Gray; No Odor
1640: Sample Collected	LC34-DPT0962-018.0-20231004	(51)	Gray; No Odor

10/04/2023	**LC34**		**112G08985**
1700: Sample Collected - Ofsite	LC34-DPT0962-025.0-20231004	(51)	Gray; No Odor

10/05/2023 **LC34** **112G08985**

Personnel:	Chuck Sorden	(CS)	Geologist	Tt
	Mickey Ritter	(MR)	Driller	GPI
	Blake Handibode	(BH)	Tech	GPI

Weather: Smoky/foggy 79 degrees F
PPE: Level D
Health and Safety (HAS): Topics – Insects/wildlife; PPE; Hydration
Objective: Continue LC34 202309 DPT GW Sampling Event

0700: Tt/GPI on site; HAS Meeting; daily prep
0740: Drilling resumed on LC34-DPT0962 (Location 51)
0800: Sample Collected LC34-DPT0962-034.0-20231005 (51) Gray; No Odor
0820: Sample Collected LC34-DPT0962-038.0-20231005 (51) Gray; No Odor
0835: LC34-DPT0962 pressure grouted 40' to surface through rods; BH deconning
0845: Set up on LC34-DPT0962 (Location 42); hand clear 5'
0850: Drilling Commenced
0905: Sample Collected LC34-DPT0963-008.0-20231005 (42) Gray; No Odor
0920: Sample Collected LC34-DPT0963-013.0-20231005 (42) Gray; No Odor
0935: Sample Collected LC34-DPT0963-018.0-20231005 (42) Gray; No Odor
- Air Sparging Influence Noted
0955: Sample Collected LC34-DPT0963-025.0-20231005 (42) Gray; No Odor
1015: Sample Collected LC34-DPT0963-034.0-20231005 (42) Gray; No Odor
1035: Sample Collected LC34-DPT0963-038.0-20231005 (42) Gray; No Odor
1050: LC34-DPT0963 pressure grouted 40' to surface through rods; BH deconning
1100: Drilling Commenced on LC34-DPT0964 (Location 55); previously hand cleared 5'; using fresh rods and screens
1115: Sample Collected LC34-DPT0964-008.0-20231005 (55) Gray; No Odor
1130: Sample Collected LC34-DPT0964-013.0-20231005 (55) Gray; No Odor
1145: Sample Collected LC34-DPT0964-018.0-20231005 (55) Gray; No Odor
1200: Sample Collected LC34-DPT0964-025.0-20231005 (55) Gray; No Odor
1215: Sample Collected LC34-DPT0964-034.0-20231005 (55) Gray; No Odor
1235: Sample Collected LC34-DPT0964-038.0-20231005 (55) Gray; No Odor
1250: LC34-DPT0964 pressure grouted 40' to surface through rods; mobilizing to decon area then to location 36 (DPT0965); BH Deconning
1300: Set up on LC34-DPT0965 (Location 36); hand clear 5'
1305: Drilling Commenced
1315: Sample Collected LC34-DPT0965-008.0-20231005 (36) Gray; No Odor
1330: Sample Collected LC34-DPT0965-013.0-20231005 (36) Gray; No Odor
1345: Sample Collected LC34-DPT0965-018.0-20231005 (36) Gray; No Odor
1405: Sample Collected LC34-DPT0965-025.0-20231005 (36) Gray; No Odor
1425: Sample Collected LC34-DPT0965-034.0-20231005 (36) Gray; No Odor
1445: Sample Collected LC34-DPT0965-038.0-20231005 (36) Gray; No Odor
1500: LC34-DPT0965 pressure grouted 40' to surface through rods; BH deconning
1515: Drilling Commenced on LC34-DPT0966 (Location 30); previously hand cleared 5'
1530: Sample Collected LC34-DPT0966-008.0-20231005 (30) Gray; No Odor
1545: Sample Collected LC34-DPT0966-013.0-20231005 (30) Gray; No Odor
1600: Sample Collected LC34-DPT0966-018.0-20231005 (30) Gray; No Odo

1620: Sample Collected	LC34-DPT0966-025.0-20231005	(30)	Gray; No Odor
1640: Sample Collected	LC34-DPT0966-034.0-20231005	(30)	Gray; No Odor
1700: Sample Collected	LC34-DPT0966-038.0-20231005	(30)	Gray; No Odor

- Will grout in the am; site secured; Tt/GPI offsite

10/06/2023 **LC34** **112G08985**

Personnel:	Chuck Sorden	(CS)	Geologist	Tt
	Mickey Ritter	(MR)	Driller	GPI
	Blake Handibode	(BH)	Tech	GPI

Weather: Sunny 74 degrees F

PPE: Level D

Health and Safety (HAS): Topics – Insects/wildlife; PPE; Hydration

Objective: Continue LC34 202309 DPT GW Sampling Event

0700: Tt/GPI on site; HAS meeting; daily prep
0730: LC34-DPT0966 pressure grouted 40' to surface through rods
0750: Rig, rods, and tooling decon'd with steam
0800: Set up on LC34-DPT0967 (Location 24); hand clear 5'
0805: Drilling Commenced

0815:	Sample Collected	LC34-DPT0967-008.0-20231006	(24)	Gray; No Odor
0830:	Sample Collected	LC34-DPT0967-013.0-20231006	(24)	Gray; No Odor
0845:	Sample Collected	LC34-DPT0967-018.0-20231006	(24)	Gray; No Odor
0900:	Sample Collected	LC34-DPT0967-025.0-20231006	(24)	Gray; No Odor
0920:	Sample Collected	LC34-DPT0967-034.0-20231006	(24)	Gray; No Odor
0940:	Sample Collected	LC34-DPT0967-038.0-20231006	(24)	Gray; No Odor

0955: LC34-DPT0967 pressure grouted 40' to surface through rods; mob to decon area
1015: Rods, and tooling decon'd with pressurized steam
1025: Drilling Commenced on LC34-DPT0468 (Location 17); previously hand cleared 5'

1035:	Sample Collected	LC34-DPT0968-008.0-20231006	(17)	Gray; No Odor
1050:	Sample Collected	LC34-DPT0968-013.0-20231006	(17)	Gray; No Odor
1105:	Sample Collected	LC34-DPT0968-018.0-20231006	(17)	Gray; No Odor
1120:	Sample Collected	LC34-DPT0968-025.0-20231006	(17)	Gray; No Odor
1135:	Sample Collected	LC34-DPT0968-034.0-20231006	(17)	Gray; No Odor
1155:	Sample Collected	LC34-DPT0968-038.0-20231006	(17)	Gray; No Odor

1210: LC34-DPT0968 pressure grouted 40' to surface through rods; BH deconning
1215: Drilling Commenced on LC34-DPT0969 (Location 10); previously hand cleared 5' using fresh rods/screens

1225:	Sample Collected	LC34-DPT0969-008.0-20231006	(10)	Gray; No Odor
1240:	Sample Collected	LC34-DPT0969-013.0-20231006	(10)	Gray; No Odor
1255:	Sample Collected	LC34-DPT0969-018.0-20231006	(10)	Gray; No Odor
1315:	Sample Collected	LC34-DPT0969-025.0-20231006	(10)	Gray; No Odor
1335:	Sample Collected	LC34-DPT0969-034.0-20231006	(10)	Gray; No Odor
1355:	Sample Collected	LC34-DPT0969-038.0-20231006	(10)	Gray; No Odor

1410: LC34-DPT0969 pressure grouted 40' to surface through rods; BH deconning
1425: CS offsite to deliver samples to courier

10/09/2023 **LC34** **112G08985**

Personnel:	Chuck Sorden	(CS)	Geologist	Tt
	Mickey Ritter	(MR)	Driller	GPI
	Blake Handibode	(BH)	Tech	GPI

Weather: Sunny 74 degrees F

PPE: Level D

Health and Safety (HAS): Topics – Insects/wildlife; PPE; Hydration

Objective: Continue LC34 202309 DPT GW Sampling Event

0800: Tt/GPI on site; HAS Meeting; daily prep; unloading tooling and materials.
0900: Set up on LC34-DPT0970 (Location 03); hand clear 5'
0910: Drilling Commenced

0920:	Sample Collected	LC34-DPT0970-008.0-20231009	(03)	Gray; No Odor
0935:	Sample Collected	LC34-DPT0970-013.0-20231009	(03)	Gray; No Odor
0950:	Sample Collected	LC34-DPT0970-018.0-20231009	(03)	Gray; No Odor
1005:	Sample Collected	LC34-DPT0970-025.0-20231009	(03)	Gray; No Odor
1025:	Sample Collected	LC34-DPT0970-034.0-20231009	(03)	Gray; No Odor
1045:	Sample Collected	LC34-DPT0970-038.0-20231009	(03)	Gray; No Odor

1100: LC34-DPT0970 pressure grouted 40' to surface through rods
1110: Drilling Commenced on LC34-DPT0971 (Location 02); previously hand cleared 5'

1120:	Sample Collected	LC34-DPT0971-008.0-20231009	(02)	Gray; No Odor
1135:	Sample Collected	LC34-DPT0971-013.0-20231009	(02)	Gray; No Odor
1150:	Sample Collected	LC34-DPT0971-018.0-20231009	(02)	Gray; No Odor
1210:	Sample Collected	LC34-DPT0971-025.0-20231009	(02)	Gray; No Odor
1235:	Sample Collected	LC34-DPT0971-034.0-20231009	(02)	Gray; No Odor
1300:	Sample Collected	LC34-DPT0971-038.0-20231009	(02)	Gray; No Odor

1315: LC34-DPT0971 pressure grouted 40' to surface through rods; Deconning then heading to Location 86
1345: Depart for LC34-DPT0472 (Location 86)
1415: Arrive LC34-DPT0972 (Location 86); hand clear 5'
1420: Drilling Commenced

1435:	Sample Collected	LC34-DPT0972-008.0-20231009	(86)	Gray; No Odor
1450:	Sample Collected	LC34-DPT0972-013.0-20231009	(86)	Gray; No Odor
1505:	Sample Collected	LC34-DPT0972-018.0-20231009	(86)	Gray; No Odor
1520:	Sample Collected	LC34-DPT0972-025.0-20231009	(86)	Gray; No Odor
1540:	Sample Collected	LC34-DPT0972-034.0-20231009	(86)	Gray; No Odor
1600:	Sample Collected	LC34-DPT0972-038.0-20231009	(86)	Gray; No Odor

1615: LC34-DPT0972 pressure grouted 40' to surface through rods; BH deconning

10/10/2023 **LC34** **112G08985**

Personnel:	Chuck Sorden	(CS)	Geologist	Tt
	Mickey Ritter	(MR)	Driller	GPI
	Blake Handibode	(BH)	Tech	GPI

Weather: Sunny 74 degrees F
PPE: Level D
Health and Safety (HAS): Topics – Insects/wildlife; PPE; Hydration
Objective: Continue LC34 202309 DPT GW Sampling Event

0700: Tt/GPI on site; HAS Meeting; daily prep
0725: Drilling Commenced on LC34-DPT0973 (Location77); previously hand cleared 5'

0735: Sample Collected	LC34-DPT0973-008.0-20231010	(77)	Gray; No Odor
0750: Sample Collected	LC34-DPT0973-013.0-20231010	(77)	Gray; No Odor
0810: Sample Collected	LC34-DPT0973-018.0-20231010	(77)	Gray; No Odor
0825: Sample Collected	LC34-DPT0973-025.0-20231010	(77)	Gray; No Odor
0840: Sample Collected	LC34-DPT0973-034.0-20231010	(77)	Gray; No Odor
0900: Sample Collected	LC34-DPT0973-038.0-20231010	(77)	Gray; No Odor

0915: LC34-DPT0973 pressure grouted 40' to surface through rods; BH Deconning
0925: Drilling Commenced on LC34-DPT0974 (Location 78); previously hand cleared 5'; using fresh rods/screens

0935: Sample Collected	LC34-DPT0974-008.0-20231010	(78)	Gray; No Odor
0945: Sample Collected	LC34-DPT0974-013.0-20231010	(78)	Gray; No Odor
1000: Sample Collected	LC34-DPT0974-018.0-20231010	(78)	Gray; No Odor
1015: Sample Collected	LC34-DPT0974-025.0-20231010	(78)	Gray; No Odor
1030: Sample Collected	LC34-DPT0974-034.0-20231010	(78)	Gray; No Odor
1055: Sample Collected	LC34-DPT0974-038.0-20231010	(78)	Gray; No Odor

1110: LC34-DPT0974 pressure grouted 40' to surface through rods; BH deconning
1115: Drilling Commenced on LC34-dPT0975 (Location 79); previously hand cleared 5'; using fresh rods and screens

1125: Sample Collected	LC34-DPT0975-008.0-20231010	(79)	Gray; No Odor
1135: Sample Collected	LC34-DPT0975-013.0-20231010	(79)	Gray; No Odor
1150: Sample Collected	LC34-DPT0975-018.0-20231010	(79)	Gray; No Odor
1205: Sample Collected	LC34-DPT0975-025.0-20231010	(79)	Gray; No Odor
1235: Sample Collected	LC34-DPT0975-034.0-20231010	(79)	Gray; No Odor
1255: Sample Collected	LC34-DPT0975-038.0-20231010	(79)	Gray; No Odor

1310: LC34-DPT0975 pressure grouted 40' to surface through rods; BH deconning
1320: Drilling Commenced on LC34-DPT0976 (Location 81); previously hand cleared 5'; using fresh rods and screens

1330: Sample Collected	LC34-DPT0976-008.0-20231010	(81)	Gray; No Odor
1345: Sample Collected	LC34-DPT0976-013.0-20231010	(81)	Gray; No Odor
1400: Sample Collected	LC34-DPT0976-018.0-20231010	(81)	Gray; No Odor
1415: Sample Collected	LC34-DPT0976-025.0-20231010	(81)	Gray; No Odor
1430: Sample Collected	LC34-DPT0976-034.0-20231010	(81)	Gray; No Odor
1450: Sample Collected	LC34-DPT0976-038.0-20231010	(81)	Gray; No Odor

1505: LC34-DPT0976 pressure grouted 40' to surface through rods; BH deconning
1515: Drilling Commenced on LC34-DPT0977 (Location 92); Previously hand cleared 5'

1525: Sample Collected	LC34-DPT0977-008.0-20231010	(92)	Gray; No Odor

10/10/2023 **LC34** **112G08985**

1535: Sample Collected	LC34-DPT0977-013.0-20231010	(92)	Gray; No Odor
1550: Sample Collected	LC34-DPT0977-018.0-20231010	(92)	Gray; No Odor
1605: Sample Collected	LC34-DPT0977-025.0-20231010	(92)	Gray; No Odor
1620: Sample Collected	LC34-DPT0977-034.0-20231010	(92)	Gray; No Odor
1640: Sample Collected	LC34-DPT0977–038.0-20231010	(92)	Gray; No Odor

1645: Site Secured; Tt/GPI offsite

10/11/2023 **LC34** **112G08985**

Personnel:	Chuck Sorden	(CS)	Geologist	Tt
	Mickey Ritter	(MR)	Driller	GPI
	Blake Handibode	(BH)	Tech	GPI

Weather: Sunny 74 degrees F

PPE: Level D

Health and Safety (HAS): Topics – Insects/wildlife; PPE; Hydration

Objective: Continue LC34 202309 DPT GW Sampling Event

0650: Tt on site; Daily prep
0700: GPI on site; HAS Meeting; daily prep
0745: LC34-DPT0977 pressure grouted 40' to surface through rods; BH deconning
0755: Drilling Commenced on LC34-DPT0978 (Location 103); previously hand cleared 5'; using fresh rods/screens

0805:	Sample Collected	LC34-DPT0978-008.0-20231011	(103)	Gray; No Odor
0820:	Sample Collected	LC34-DPT0978-013.0-20231011	(103)	Gray; No Odor
0835:	Sample Collected	LC34-DPT0978-018.0-20231011	(103)	Gray; No Odor
0850:	Sample Collected	LC34-DPT0978-025.0-20231011	(103)	Gray; No Odor
0910:	Sample Collected	LC34-DPT0978-034.0-20231011	(103)	Gray; No Odor
0930:	Sample Collected	LC34-DPT0978-038.0-20231011	(103)	Gray; No Odor

0945: LC34-DPT0978 pressure grouted 40' to surface through rods; BH deconning; begin mobilizing equipment and materials over to the other side of the Stanton's
1005: Arrive at LC34-DPT0979 (Location 123) Hand clear 5'
1010: Drilling Commenced

1025:	Sample Collected	LC34-DPT0979-008.0-20231011	(123)	Gray; No Odor
1040:	Sample Collected	LC34-DPT0979-013.0-20231011	(123)	Gray; No Odor
1055:	Sample Collected	LC34-DPT0979-018.0-20231011	(123)	Gray; No Odor
1110:	Sample Collected	LC34-DPT0979-025.-020231011	(123)	Gray; No Odor
1130:	Sample Collected	LC34-DPT0979-034.0-20231011	(123)	Gray; No Odor
1150:	Sample Collected	LC34-DPT0979-038.0-20231011	(123)	

1205: LC34-DPT0979 pressure grouted 40' to surface through rods; BH deconning
1220: Drilling Commenced on LC34-DPT0980 (Location 124); previously hand cleared 5'; using fresh rods/screens

1230:	Sample Collected	LC34-DPT0980-008.0-20231011	(124)	Gray; No Odor
1245:	Sample Collected	LC34-DPT0980-013.0-20231011	(124)	Gray; No Odor
1300:	Sample Collected	LC34-DPT0980-018.0-20231011	(124)	Gray; No Odor
1315:	Sample Collected	LC34-DPT0980-025.0-20231011	(124)	Gray; No Odor
1330:	Sample Collected	LC34-DPT0980-034.0-20231011	(124)	Gray; No Odor
1350:	Sample Collected	LC34-DPT0980-038.0-20231011	(124)	Gray; No Odor

1405: LC34-DPT0980 pressure grouted 40' to surface through rods; BH deconning
1415: Samples Relinquished to Kyle Hoard for delivery to courier
1415: Drilling Commenced on LC34-DPT0981 (Location 114); previously hand cleared 5'

1425:	Sample Collected	LC34-DPT0981-008.0-20231011	(114)	Gray; No Odor
1435:	Sample Collected	LC34-DPT0981-013.0-20231011	(114)	Gray; No Odor
1450:	Sample Collected	LC34-DPT0981-018.0-20231011	(114)	Gray; No Odor
1510:	Sample Collected	LC34-DPT0981-025.0-20231011	(114)	Gray; No Odor

1530: Sample Collected	LC34-DPT0981-034.0-20231011	(114)	Gray; No Odor
1550: Sample Collected	LC34-DPT0981-038.0-20231011	(114)	Gray; No Odor

1605: LC34-DPT0981 pressure grouted 40’ to surface through rods
1620: Rig, rods, and tooling decon’d with steam; moving equipment back to the other side of the concrete
1635: Set up on LC34-DPT0982 (Location 113); managing IDW/Garbage
1645: Site secured;Tt/GPI offsite to make garbage run

10/12/2023 **LC34** **112G08985**

Personnel:	Chuck Sorden	(CS)	Geologist	Tt
	Mickey Ritter	(MR)	Driller	GPI
	Blake Handibode	(BH)	Tech	GPI

Weather: Sunny 74 degrees F

PPE: Level D

Health and Safety (HAS): Topics – Insects/wildlife; PPE; Hydration

Objective: Continue LC34 202309 DPT GW Sampling Event

0730: Tt/GPI on site; long line at CCSFS Gate; HAS Meeting; daily prep

0755: Drilling Commenced on LC34-DPT0982 (Location 113); previously hand cleared 5'

0805:	Sample Collected	LC34-DPT0982-008.0-20231012	(113)	Gray; No Odor
0820:	Sample Collected	LC34-DPT0982-013.0-20231012	(113)	Gray; No Odor
0835:	Sample Collected	LC34-DPT0982-018.0-20231012	(113)	Gray; No Odor
0850:	Sample Collected	LC34-DPT0982-025.0-20231012	(113)	Gray; No Odor
0905:	Sample Collected	LC34-DPT0982-034.0-20231012	(113)	Gray; No Odor
0925:	Sample Collected	LC34-DPT0982-038.0-20231012	(113)	Gray; No Odor

0940: LC34-DPT0982 pressure grouted 40' to surface through rods; MR deconning

0955: Drilling Commenced on LC34-DPT0983 (Location 111); hand cleared 5'; using fresh rods/screens

1005:	Sample Collected	LC34-DPT0983-008.0-20231012	(111)	Gray; No odor
1015:	Sample Collected	LC34-DPT0983-013.0-20231012	(111)	Gray; No Odor
1030:	Sample Collected	LC34-DPT0983-018.0-20231012	(111)	Gray; No Odor
1045:	Sample Collected	LC34-DPT0983-025.0-20231012	(111)	Gray; No Odor
1100:	Sample Collected	LC34-DPT0983-034.0-20231012	(111)	Gray; No Odor
1120:	Sample Collected	LC34-DPT0983-038.0-20231012	(111)	Gray; No Odor

1135: LC34-DPT0983 pressure grouted 40' to surface through rods; BH deconning

1145: Drilling Commenced on LC34-DPT0984 (Location 122); previously hand cleared 5'; using fresh rods/screens

1155:	Sample Collected	LC34-DPT0984-008.0-20231012	(122)	Gray; No Odor
1210:	Sample Collected	LC34-DPT0984-013.0-20231012	(122)	Gray; No Odor
1225:	Sample Collected	LC34-DPT0984-018.0-20231012	(122)	Gray; No Odor
1245:	Sample Collected	LC34-DPT0984-025.0-20231012	(122)	Gray; No Odor
1305:	Sample Collected	LC34-DPT0984-034.0-20231012	(122)	Gray; No Odor

- Phase II Lightning Warning in Effect. All personnel secured in vehicles

1500: Still in Phase II; site secured; Tt/GPI offsite

10/13/2023 **LC34** **112G08985**

Personnel:	Chuck Sorden	(CS)	Geologist	Tt
	Mickey Ritter	(MR)	Driller	GPI
	Blake Handibode	(BH)	Tech	GPI

Weather: Sunny 74 degrees F
PPE: Level D
Health and Safety (HAS): Topics – Insects/wildlife; PPE; Hydration
Objective: Continue LC34 202309 DPT GW Sampling Event

0730: Tt/GPI on site; Heavy gate traffic today due to SpaceX Launch; HAS meeting; daily prep
0735: Drilling resumed on LC34-DPT0984
0800: Sample Collected LC34-DPT0984-038.0-20231013 (122) Gray; No Odor
0815: LC34-DPT0984 pressure grouted 40' to surface through rods; BH deconning
0825: Drilling Commenced on LC34-DPT0985 (Location 121); previously hand cleared 5' using fresh rods/screens
0835: Sample Collected LC34-DPT0985-008.0-20231013 (121) Gray; No Odor
0845: Sample Collected LC34-DPT0985-013.0-20231013 (121) Gray; No Odor
0900: Sample Collected LC34-DPT0985-018.0-20231013 (121) Gray; No Odor
0915: Sample Collected LC34-DPT0985-025.0-20231013 (121) Gray; No Odor
0935: Sample Collected LC34-DPT0985-034.0-20231013 (121) Gray; No Odor
0955: Sample Collected LC34-DPT0985-038.0-20231013 (121) Gray; No Odor
1010: LC34-DPT0985 pressure grouted 40' to surface through rods; BH deconning
1020: Drilling Commenced on LC34-DPT0986 (Location 120); previously hand cleared 5'
1030: Sample Collected LC34-DPT0986-008.0-20231013 (120) Gray; No Odor
1040: Sample Collected LC34-DPT0986-013.0-20231013 (120) Gray; No Odor
1050: Sample Collected LC34-DPT0986-018.0-20231013 (120) Gray; No Odor
1105: Sample Collected LC34-DPT0986-025.0-20231013 (120) Gray; No Odor
1125: Sample Collected LC34-DPT0986-034.0-20231013 (120) Gray; No Odor
1145: Sample Collected LC34-DPT0986-038.0-20231013 (120) Gray; No Odor
1200: LC34-DPT0986 pressure grouted 40' to surface through rods; BH deconning
1210: Drilling Commenced on LC34-DPT0987 (Location 119); previously hand cleared 5'; adjusting depths +4' deeper due to change grade relative to the surrounding area. Nomenclature will remain the same for consistency
1220: Sample Collected LC34-DPT0987-008.0-20231013 (119) Gray; No Odor
1235: Sample Collected LC34-DPT0987-013.0-20231013 (119) Gray; No Odor
1255: Sample Collected LC34-DPT0987-018.0-20231013 (119) Gray; No Odor
1310: Sample Collected LC34-DPT0987-025.0-20231013 (119) Gray; No Odor
1330: Sample Collected LC34-DPT0987-034.0-20231013 (119) Gray; No Odor
1350: Sample Collected LC34-DPT0987-038.0-20231013 (119) Gray; No Odor
1405: LC34-DPT0987 pressure grouted 40' to surface through rods; BH deconning, then moving rig to Location 8

10/16/2023 **LC34** **112G08985**

Personnel:	Chuck Sorden	(CS)	Geologist	Tt
	Mickey Ritter	(MR)	Driller	GPI
	Blake Handibode	(BH)	Tech	GPI

Weather: Sunny 62 degrees F

PPE: Level D

Health and Safety (HAS): Topics – Insects/wildlife; PPE; Hydration

Objective: Continue LC34 202309 DPT GW Sampling Event

0800: CS on site
0820: GPI on site; HAS Meeting; daily prep; mobilizing rest of equipment to location 8
0850: Set up on LC34-DPT0988 (Location 8); hand clear 5'
0855: Drilling Commenced
0905: Sample Collected LC34-DPT0988-008.0-20231016) Gray; No Odor
- MR Conducting repairing hose pump on rig
0925: Drilling resumed
0935: Sample Collected LC34-DPT0988-013.0-20231016 (08) Gray; No Odor
0955: Sample Collected LC34-DPT0988-018.0-20231016 (08) Gray; No Odor
1010: Sample Collected LC34-DPT0988-025.0-20231016 (08) Gray; No Odor
1030: Sample Collected LC34-DPT0988-034.0-20231016 (08) Gray; No Odor
1050: Sample Collected LC34-DPT0988-038.0-20231016 (08) Gray; No Odor
1105: LC34-DPT0988 pressure grouted 40' to surface through rods; BH deconning
1115: Drilling Commenced on LC34-DPT0989 (Location 15); previously hand cleared 5'
1125: Sample Collected LC34-DPT0989-008.0-20231016 (15) Gray; No Odor
1145: Sample Collected LC34-DPT0989-013.0-20231016 (15) Gray; No Odor
1200: Sample Collected LC34-DPT0989-018.0-20231016 (15) Gray; No Odor
1230: Sample Collected LC34-DPT0989-025.0-20231016 (15) Gray; No Odor
1250: Sample Collected LC34-DPT0989-034.0-20231016 (15) Gray; No Odor
1310: Sample Collected LC34-DPT0989-038.0-20231016 (15) Gray; No Odor
1325: LC34-DPT0989 pressure grouted 40' to surface through rods
1330: Set up on LC34-DPT0990 (Location 22); hand clear 5'; using decon'd (fresh) rods/screens
1335: Drilling Commenced on LC34-DPT0990
1345: Sample Collected LC34-DPT0990-008.0-20231016 (22) Gray; No Odor
1355: Sample Collected LC34-DPT0990-013.0-20231016 (22) Gray; No Odor
1410: Sample Collected LC34-DPT0990-018.0-20231016 (22) Gray; No Odor
1430: Sample Collected LC34-DPT0990-025.0-20231016 (22) Gray; No Odor
1445: Sample Collected LC34-DPT0990-034.0-20231016 (22) Gray; No Odor
1505: Sample Collected LC34-DPT0990-038.0-20231016 (22) Gray; No Odor
1520: LC34-DPT0990 pressure grouted 40' to surface through rods; MR/BH Deconning
1555: Set up on LC34-DPT0991 (Location 29); hand clear 5'; using fresh rods/screens
1600: Drilling Commenced
1610: Sample Collected LC34-DPT0991-008.0-20231016 (29) Gray; No Odor
1625: Sample Collected LC34-DPT0991-013.0-20231016 (29) Gray; No Odor
1645: GPI offsite
1700: CS offsite

10/17/2023 **LC34** **112G08985**

Personnel:	Chuck Sorden	(CS)	Geologist	Tt
	Mickey Ritter	(MR)	Driller	GPI
	Blake Handibode	(BH)	Tech	GPI

Weather: Sunny 62 degrees F
PPE: Level D
Health and Safety (HAS): Topics – Insects/wildlife; PPE; Hydration
Objective: Continue LC34 202309 DPT GW Sampling Event

0700: Tt/GPI on site; HAS Meeting; daily prep
0735: Drilling resumed on LC34-DPT0991
0745: LC34-DPT0991 pressure grouted 15' to surface throug rods; CS incorrectly read email and went to incorrect location. Spoke with Mark Jonnet (Tt PM) and we will keep the 8' and 13' samples as a contingency plan. Setting up on LC34-DPT0992 (Location 28); hand clear 5'
0755: Drilling Commenced

0805: Sample Collected	LC34-DPT0992-008.0-20231017	(28)	Gray; No Odor
0825: Sample Collected	LC34-DPT0992-013.0-20231017	(28)	Gray; No Odor
0840: Sample Collected	LC34-DPT0992-018.0-20231017	(28)	Gray; No Odor
0855: Sample Collected	LC34-DPT0992-025.0-20231017	(28)	Gray; No Odor
0915: Sample Collected	LC34-DPT0992-034.0-20231017	(28)	Gray; No Odor
0935: Sample Collected	LC34-DPT0992-038.0-20231017	(28)	Gray; No Odor

0950: LC34-DPT0992 pressure grouted 40' to surface through rods
1000: Drilling Commenced on LC34-DPT0993 (Location 34); previously hand cleared 5' using decon'd rods/screens

1010: Sample Collected	LC34-DPT0993-008.0-20231017	(34)	Gray; No Odor
1020: Sample Collected	LC34-DPT0993-013.0-20231017	(34)	Gray; No Odor
1035: Sample Collected	LC34-DPT0993-018.0-20231017	(34)	Gray; No Odor
1050: Sample Collected	LC34-DPT0993-025.0-20231017	(34)	Gray; No Odor
1110: Sample Collected	LC34-DPT0993-034.0-20231017	(34)	Gray; No Odor
1130: Sample Collected	LC34-DPT0993-038.0-20231017	(34)	Gray; No Odor

1145: LC34-DPT0993 pressure grouted 40' to surface through rods; mobilizing rig out to decon pit staged near location 2
1205: Arrive at Decon
1225: Rig, rods, and tooling decon'd with pressurized steam
1230: Set up on LC34-DPT0994 (Location 23A); hand clear 5'
1235: Drilling Commenced

1245: Sample Collected	LC34-DPT0994-008.0-20231017	(23A)	Gray; No Odor
1300: Sample Collected	LC34-DPT0994-013.0-20231017	(23A)	Gray; No Odor
1310: Sample Collected	LC34-DPT0994-018.0-20231017	(23A)	Gray; No Odor
1325: Sample Collected	LC34-DPT0994-025.0-20231017	(23A)	Gray; No Odor
1345: Sample Collected	LC34-DPT0994-034.0-20231017	(23A)	Gray; No Odor
1405: Sample Collected	LC34-DPT0994-038.0-20231017	(23A)	Gray; No Odor

1415: Cooler relinquished to Kyle Hoard to Deliver to Lab Courier
1420: LC34-DPT0994 pressure grouted 40' to surface through rods; BH deconning
1430: Drilling Commenced on LC34-DPT0995 (Location 23); previously hand cleared 5'; using decon'd rods/screens

1440: Sample Collected	LC-DPT0995-008.0-20231017	(23)	Gray; No Odor

1450: Sample Collected LC34-DPT0995-013.0-20231017 (23) Gray; No Odor
1505: Sample Collected LC34-DPT0995-018.0-20231017 (23) Gray; No Odor
1520: Sample Collected LC34-DPT0995-025.0-20231017 (23) Gray; No Odor
1535: Sample Collected LC34-DPT0995-034.0-20231017 (23) Gray; No Odor
1555: Sample Collected LC34-DPT0995-038.0-20231017 (23) Gray; No Odor
1610: LC34-DPT0995 pressure grouted 40’ to surface through rods; MR Deconning
1620: Drilling Commenced on LC34-DPT0996 (Location 16); previously hand cleared 5’; using decon’d rods and screens
1630: Sample Collected LC34-DPT0996-008.0-20231017 (16) Gray; No Odor
1645: Sample Collected LC34-DPT0996-013.0-20231017 (16) Gray; No Odor
1700: Sample Collected LC34-DPT0996-018.0-20231017 (16) Gray; No Odor

- GPI offsite

1730: CS off site

10/18/2023 **LC34** **112G08985**

Personnel:	Chuck Sorden	(CS)	Geologist	Tt
	Mickey Ritter	(MR)	Driller	GPI
	Blake Handibode	(BH)	Tech	GPI

Weather: Sunny 62 degrees F
PPE: Level D
Health and Safety (HAS): Topics – Insects/wildlife; PPE; Hydration
Objective: Continue LC34 202309 DPT GW Sampling Event

0700: Tt/GPI on site; HAS Meeting; daily prep
0730: Drilling resumed on LC34-DPT0996

0745: Sample Collected	LC34-DPT0996-025.0-20231018	(16)	Gray; No Odor
0800: Sample Collected	LC34-DPT0996-034.0-20231018	(16)	Gray; No Odor
0815: Sample Collected	LC34-DPT0996-038.0-10121018	(16)	Gray; No Odor

0830: LC34-DPT0996 pressure grouted 40’ to surface through rods
0855: Rig, rods, and tooling decon’d with steam; begin mobilizing equipment and materials to LC34-DPT0997 (Location 149 along Phillip’s Parkway)
0935: Arrive at LC34-DPT0997; setting up; hand clear 5’
0945: Drilling Commenced; collecting samples bottom up per Tt PM request

1005: Sample Collected	LC34-DPT0997-038.0-20231018	(149)	Gray; No Odor
1020: Sample Collected	LC34-DPT0997-032.0-20231018	(149)	Gray; No Odor
1035: Sample Collected	LC34-DPT0997-025.0-20231018	(149)	Gray; No Odor
1050: Sample Collected	LC34-DPT0997-018.0-20231018	(149)	Gray; No Odor
1105: Sample Collected	LC34-DPT0997-013.0-20231018	(149)	Gray; No Odor
1120: Sample Collected	LC34-DPT0997-008.0-20231018	(149)	Gray; No Odor

1140: LC34-DPT0997 pressure grouted 40’ to surface through rods
1145: Set up on LC34-DPT0998 (Location 148); hand clear 5’
1150: Drilling Commenced

1210: Sample Collected	LC34-DPT0998-038.0-20231018	(148)	Gray; No Odor
1225: Sample Collected	LC34-DPT0998-032.0-20231018	(148)	Gray; No Odor
1240: Sample Collected	LC34-DPT0998-025.0-20231018	(148)	Gray; No Odor
1255: Sample Collected	LC34-DPT0998-018.0-20231018	(148)	Gray; No Odor
1310: Sample Collected	LC34-DPT0998-013.0-20231018	(148)	Gray; No Odor
1325: Sample Collected	LC34-DPT0998-008.0-20231018	(148)	Gray; No Odor

1340: LC34-DPT0998 pressure grouted 40’ to surface through rods
1350: Drilling Commenced on LC34-DPT099 (Location 147); hand cleared 5’; using decon’d rods and screens; BH deconning between samples
1400: Samples Relinquished to Kyle Hoard to deliver to Courier

1405: Sample Collected	LC34-DPT0999-038.0-20231018	(147)	Gray; No Odor
1420: Sample Collected	LC34-DPT0999-032.0-20231018	(147)	Gray; No Odor
1435: Sample Collected	LC34-DPT0999-025.0-20231018	(147)	Gray; No Odor
1450: Sample Collected	LC34-DPT0999-018.0-20231018	(147)	Gray; No Odor
1505: Sample Collected	LC34-DPT0999-013.0-20231018	(147)	Gray; No Odor
1520: Sample Collected	LC34-DPT0999-008.0-20231018	(147)	Gray; No Odor

1530: LC34-DPT0999 pressure grouted 40’ to surface through rods
1535: Drilling Commenced on LC34-DPT1000 (Location 146); previously hand cleared 5’; using decon’d rods and screens; MR Deconning between samples

10/18/2023 **LC34** **112G08985**

1550: Sample Collected	LC34-DPT1000-038.0-20231018	(146)	Gray; No Odor
1605: Sample Collected	LC34-DPT1000-032.0-20231018	(146)	Gray; No Odor
1620: Sample Collected	LC34-DPT1000-025.0-20231018	(146)	Gray; No Odor
1635: Sample Collected	LC34-DPT1000-018.0-20231018	(146)	Gray; No Odor
1650: Sample Collected	LC34-DPT1000-013.0-20231018	(146)	Gray; No Odor
1705: Sample Collected	LC34-DPT1000-008.0-20231018	(146)	Gray; No Odor

- GPI offsite

1730: Site secured; Tt offsite

10/19/2023 **LC34** **112G08985**

Personnel:	Chuck Sorden	(CS)	Geologist	Tt
	Mickey Ritter	(MR)	Driller	GPI
	Blake Handibode	(BH)	Tech	GPI

Weather: Sunny 62 degrees F

PPE: Level D

Health and Safety (HAS): Topics – Insects/wildlife; PPE; Hydration

Objective: Continue LC34 202309 DPT GW Sampling Event

0700: Tt/GPI on site; HAS Meeting; daily prep;
0735: LC34-DPT1000 pressure grouted 40' to surface through rods
0745: Drilling Commenced on LC34-DPT1001 (Location 145); previously hand cleared 5'; using decon'd rods and screens; MR Deconning between samples

0805: Sample Collected	LC34-DPT1001-038.0-20231019	(145)	Gray; No Odor
0820: Sample Collected	LC34-DPT1001-032.0-20231019	(145)	Gray; No Odor
0835: Sample Collected	LC34-DPT1001-025.0-20231019	(145)	Gray; No Odor
0850: Sample Collected	LC34-DPT1001-018.0-20231019	(145)	Gray; No Odor
0905: Sample Collected	LC34-DPT1001-013.0-20231019	(145)	Gray; No Odor
0920: Sample Collected	LC34-DPT1001-008.0-20231019	(145)	Gray; No Odor

0935: LC34-DPT1001 pressure grouted 40' to surface through rods
0945: Drilling Commenced on LC34-DPT1001 (Location 145); previously hand cleared 5'; using decon'd rods and screens; MR Deconning between samples

1005: Sample Collected	LC34-DPT1002-038.0-20231019	(144)	Gray; No Odor
1020: Sample Collected	LC34-DPT1002-032.0-20231019	(144)	Gray; No Odor
1035: Sample Collected	LC34-DPT1002-025.0-20231019	(144)	Gray; No Odor
1050: Sample Collected	LC34-DPT1002-018.0-20231019	(144)	Gray; No Odor
1105: Sample Collected	LC34-DPT1002-013.0-20231019	(144)	Gray; No Odor
1120: Sample Collected	LC34-DPT1002-008.0-20231019	(144)	Gray; No Odor

1135: LC34-DPT1002 pressure grouted 40' to surface through rods
1145: Drilling Commenced on LC34-DPT1003 (Location 143); previously hand cleared 5'; using decon'd rods and screens; MR Deconning between samples

1205: Sample Collected	LC34-DPT1003-038.0-20231019	(143)	Gray; No Odor
1220: Sample Collected	LC34-DPT1003-032.0-20231019	(143)	Gray; No Odor
1235: Sample Collected	LC34-DPT1003-025.0-20231019	(143)	Gray; No Odor
1250: Sample Collected	LC34-DPT1003-018.0-20231019	(143)	Gray; No Odor
1305: Sample Collected	LC34-DPT1003-013.0-20231019	(143)	Gray; No Odor
1320: Sample Collected	LC34-DPT1003-008.0-20231019	(143)	Gray; No Odor

1335: LC34-DPT1003 pressure grouted 40' to surface through rods
1345: Drilling Commenced on LC34-DPT1004 (Location 142); previously hand cleared 5'; using decon'd rods and screens; MR Deconning between samples
1400: Samples relinquished to Ron Linton to deliver to Lab Courier

1405: Sample Collected	LC34-DPT1004-038.0-20231019	(142)	Gray; No Odor
1420: Sample Collected	LC34-DPT1004-032.0-20231019	(142)	Gray; No Odor
1435: Sample Collected	LC34-DPT1004-025.0-20231019	(142)	Gray; No Odor
1450: Sample Collected	LC34-DPT1004-018.0-20231019	(142)	Gray; No Odor
1505: Sample Collected	LC34-DPT1004-013.0-20231019	(142)	Gray; No Odor
1520: Sample Collected	LC34-DPT1004-008.0-20231019	(142)	Gray; No Odor

1535: LC34-DPT1004 pressure grouted 40’ to surface through rods
1545: Drilling Commenced on LC34-DPT1005 (Location 141); previously hand cleared 5’; using decon’d rods and screens; MR Deconning between samples

1600: Sample Collected	LC34-DPT1005-038.0-20231019	(141)	Gray; No Odor
1615: Sample Collected	LC34-DPT1005-032.0-20231019	(141)	Gray; No Odor
1630: Sample Collected	LC34-DPT1005-025.0-20231019	(141)	Gray; No Odor
1645: Sample Collected	LC34-DPT1005-018.0-20231019	(141)	Gray; No Odor
1700: Sample Collected	LC34-DPT1005-013.0-20231019	(141)	Gray; No Odor
1705: GPI offsite			
1715: Sample Collected	LC34-DPT1005-008.0-20231019	(141)	Gray; No Odor

1730: Site Secured; Tt offsite

10/20/2023 **LC34** **112G08985**

Personnel:	Chuck Sorden	(CS)	Geologist	Tt
	Mickey Ritter	(MR)	Driller	GPI
	Blake Handibode	(BH)	Tech	GPI

Weather: Sunny 62 degrees F
PPE: Level D
Health and Safety (HAS): Topics – Insects/wildlife; PPE; Hydration
Objective: Continue LC34 202309 DPT GW Sampling Event

0700: Tt/GPI on site; HAS Meeting; daily prep; grouting LC34-DPT1005
0735: LC34-DPT1004 pressure grouted 40' to surface through rods
0740: Set up on LC34-DPT1006 (Location 140); hand clear 5'; using decon'd rods and screens; MR Deconning between samples
0745: Drilling Commenced

0805: Sample Collected	LC34-DPT1006-038.0-20231020	(140)	Gray; No Odor
0820: Sample Collected	LC34-DPT1006-032.0-20231020	(140)	Gray; No Odor
0835: Sample Collected	LC34-DPT1006-025.0-20231020	(140)	Gray; No Odor
0850: Sample Collected	LC34-DPT1006-018.0-20231020	(140)	Gray; No Odor
0905: Sample Collected	LC34-DPT1006-013.0-20231020	(140)	Gray; No Odor
0920: Sample Collected	LC34-DPT1006-008.0-20231020	(140)	Gray; No Odor

0935: LC34-DPT1006 pressure Grouted 40' to surface through rods
0945: Drilling Commenced on LC34-DPT1007 (Location 139); previously hand cleared 5'; using decon'd rods and screens; MR deconning between samples

1000: Sample Collected	LC34-DPT1007-038.0-20231020	(139)	Gray; No Odor
1015: Sample Collected	LC34-DPT1007-032.0-20231020	(139)	Gray; No Odor
1030: Sample Collected	LC34-DPT1007-025.0-20231020	(139)	Gray; No Odor
1045: Sample Collected	LC34-DPT1007-018.0-20231020	(139)	Gray; No Odor
1100: Sample Collected	LC34-DPT1007-013.0-20231020	(139)	Gray; No Odor
1115: Sample Collected	LC34-DPT1007-008.0-20231020	(139)	Gray; No Odor

1140: Drilling Commenced on LC34-DPT1007 (Location 139); previously hand cleared 5'; using decon'd rods and screens; MR deconning between samples

1155: Sample Collected	LC34-DPT1008-038.0-20231020	(139)	Gray; No Odor
1210: Sample Collected	LC34-DPT1008-032.0-20231020	(139)	Gray; No Odor
1225: Sample Collected	LC34-DPT1008-025.0-20231020	(139)	Gray; No Odor
1240: Sample Collected	LC34-DPT1008-018.0-20231020	(139)	Gray; No Odor
1255: Sample Collected	LC34-DPT1008-013.0-20231020	(139)	Gray; No Odor
1310: Sample Collected	LC34-DPT1008-008.0-20231020	(139)	Gray; No Odor

1325: LC34-DPT1008 pressure grouted 40' to surface through rods; Begin mobilizing equipment and materials back to Location 01
1345: Drilling Commenced on LC34-DPT1009 (Location 01); hand cleared 5'; using decon'd rods and screen

1355: Sample Collected	LC34-DPT1009-008.0-20231020	(01)	Gray; No Odor
1405: Sample Collected	LC34-DPT1009-013.0-20231020	(01)	Gray; No Odor
1415: Sample Collected	LC34-DPT1009-018.0-20231020	(01)	Gray; No Odor
1430: Sample Collected	LC34-DPT1009-025.0-20231020	(01)	Gray; No Odor
1445: Sample Collected	LC34-DPT1009-034.0-20231020	(01)	Gray; No Odor
1500: Sample Collected	LC34-DPT1009-038.0-20231020:	(01)	Gray; No Odor

1515: LC34-DPT1009 pressure grouted 40’ to surface through rods; will decon Monday. Site Secured; Tt/GPI offsite; CS offsite to meet courier

10/23/2023 **LC34** **112G08985**

Personnel:	Chuck Sorden	(CS)	Geologist	Tt
	Mickey Ritter	(MR)	Driller	GPI
	Blake Handibode	(BH)	Tech	GPI

Weather: Sunny 62 degrees F
PPE: Level D
Health and Safety (HAS): Topics – Insects/wildlife; PPE; Hydration
Objective: Continue LC34 202309 DPT GW Sampling Event

0730: CS on base
0815: CS at LC34
0830: GPI 0n site; HAS Meeting; daily prep
0910: Rig, rods, and tooling decon'd with pressurized steam
0920: Set up on LC34-DPT1010 (Location 09); hand clear 5'
0925: Drilling Commenced

0935:	Sample Collected	LC34-DPT1010-008.0-20231023	(09)	Gray; No Odor
0950:	Sample Collected	LC34-DPT1010-013.0-20231023	(09)	Gray; No Odor
1005:	Sample Collected	LC34-DPT1010-018.0-20231023	(09)	Gray; No Odor
1020:	Sample Collected	LC34-DPT1010-025.0-20231023	(09)	Gray; No Odor
1040:	Sample Collected	LC34-DPT1010-034.0-20231023	(09)	Gray; No Odor
1100:	Sample Collected	LC34-DPT1010-038.0-20231023	(09)	Gray; No Odor

1115: LC34-DPT1010 pressure grouted 40' to surface through rods
1130: Rig, rods, and tooling decon'd with pressurized steam
1135: Set up o LC34-DPT0962 (Location 51); collecting depth samples 43' and 38' BLS bottom up per Tt PM; hand clear 5' using decon'd rods/screens
1140; Drilling Commenced

1205:	Sample Collected	LC34-DPT0962-043.0-20231023	(51)	Gray; No Odor
1225:	Sample Collected	LC34-DPT0962-038.0-20231023	(51)	Gray; No Odor

1240: LC34-DPT0962 pressure grouted 50' to surface through rods
1245: Set up o LC34-DPT0961 (Location 47); hand clear 5' using decon'd rods/screens
1250: Drilling Commenced

1305:	Sample Collected	LC34-DPT0961-043.0-20231023	(47)	Gray; No Odor
1320:	Sample Collected	LC34-DPT0961-038.0-20231023	(47)	Gray; No Odor

1335: LC34-DPT0961 pressure grouted 45' to surface through rods; mob to decon area
1345: Rig, rods, and tooling decon'd with steam
1350: Drilling Commenced on LC34-DPT0960 (Location 43)

1405:	Sample Collected	LC34-DPT0960-043.0-20231023	(43)	Gray; No Odor
1420:	Sample Collected	LC34-DPT0960-038.0-20231023	(43)	Gray; No Odor

1435: LC34-DPT0960 pressure grouted 50' to surface through rods
1440: Set up o LC34-DPT0959 (Location 37); hand clear 5' using decon'd rods/screens
1445: Drilling Commenced

1500:	Sample Collected	LC34-DPT0959-043.0-20231023	(37)	Gray; No Odor
1515:	Sample Collected	LC34-DPT0959-038.0-20231023	(37)	Gray; No Odor

1530: LC34-DPT0959 pressure grouted 45' to surface through rods
1535: Set up on LC34-DPT0958 (Location 31); hand clear 5'; using decon'd rods/screens
1540: Drilling Commenced

1555:	Sample Collected	LC34-DPT0958-043.0-20231023	(31)	Gray; No Odor

10/23/2023 **LC34** **112G08985**

1610: Sample Collected LC34-DPT0958-038.0-20231023 (31) Gray; No Odor
1625: LC34-DPT0958 pressure grouted 45’ to surface through rods
1640: Rig, rods, and tooling Decon’d with steam
1645: GPI offsite
1715: Site secured; Tt offsite

10/24/2023 **LC34** **112G08985**

Personnel:	Chuck Sorden	(CS)	Geologist	Tt
	Mickey Ritter	(MR)	Driller	GPI
	Blake Handibode	(BH)	Tech	GPI

Weather: Sunny 75 degrees F Windy
PPE: Level D
Health and Safety (HAS): Topics – Insects/wildlife; PPE; Hydration
Objective: Continue LC34 202309 DPT GW Sampling Event

0700: Tt/GPI on site; HAS meeting; daily prep
0730: Drilling Commenced on LC34-DPT0963 (Location 42); previously hand cleared 5'; collecting samples bottom up per Tt PM
0755: Sample Collected LC34-DPT0963-043.0-20231024 (42) Gray; No Odor
0810: Sample Collected LC34-DPT0963-038.0-20231024 (42) Gray; No Odor
0825: LC34-DPT0963 pressure grouted 45' to surface through rods; MR deconning
0835: Set up on LC34-DPT0965 (Location 36); hand clear 5'; using decon'd rods and screens
0840: Drilling Commenced
0855: Sample Collected LC34-DPT0965-043.0-20231024 (36) Gray; No Odor
0910: Sample Collected LC34-DPT0965-038.0-20231024 (36) Gray; No Odor
0925: LC34-DPT0965 pressure grouted 45' to surface through rods
0935: Drilling Commenced on LC34-DPT0966 (Location 30); previously hand cleared 5'; using decon'd rods and screensx
0950: Sample Collected LC34-DPT0966-043.0-20231024 (30) Gray; No Odor
1005: Sample Collected LC34-DPT0966-038.0-20231024 (30) Gray; No Odor
1020: LC34-DPT0966 pressure grouted 45' to surface through rods
1030: Drilling Commenced on LC34-DPT0967 (Location 24); previously hand cleared 5'; using decon'd rod/screens
1045: Sample Collected LC34-DPT0967-043.0-20231024 (24) Gray; No Odor
1100: Sample Collected LC34-DPT0967-038.0-20231024 (24) Gray; No Odor
1115: LC34-DPT0967 pressure grouted 40' to surface through rods; mobilizing rods in cart to decon in the grassy area at the trailhead
1130: Rods and tooling decon'd with pressurized steam
1135: Drilling Commenced on LC34-DPT0969 (Location 10); previously hand cleared 5' using decon'd rods/screens
1150: Sample Collected LC34-DPT0969-043.0-20231024 (10) Gray; No Odor
1205: Sample Collected LC34-DPT0969-038.0-20231024 (10) Gray; No Door
1220: LC34-DPT0969 pressure grouted 45' to surface through rods
1230: Drilling Commenced on LC34-DPT970 (Location 03); previously hand cleared 5'
1245: Sample Collected LC34-DPT0970-043.0-20231024 (03) Gray; No Odor
1300: Sample Collected LC34-DPT0970-038.0-20231024 (03) Gray; No Odor
1315: LC34-DPT0970 pressure grouted 45' to surface through rods
1325: Drilling Commenced on LC34-DPT0994 (Location 23A); previously hand cleared 5'; using fresh rods and screens
1340: Sample Collected LC34-DPT0994-043.0-20231024 (23A) Gray; No Odor
1355: Sample Collected LC34-DPT0994-038.0-20231024 (23A) Gray; No Odor
1410: LC34-DPT0994 pressure grouted 40' to surface through rods; deconning then mob to Location 131+

1445:	Drilling Commenced on LC34-DPT1011 (Location 131+); previously hand cleared 5’			
1500:	Sample Collected	LC34-DPT1011-008.0-20231024	(131+)	Gray; No Odor
1515:	Sample Collected	LC34-DPT1011-013.0-20231024	(131+)	Gray; No Odor
1530:	Sample Collected	LC34-DPT1011-018.0-20231024	(131+)	Gray; No Odor
1550:	Sample Collected	LC34-DPT1011-025.0-20231024	(131+)	Gray; No Odor
1610:	Sample Collected	LC34-DPT1011-034.0-20231024	(131+)	Gray; No Odor
1630:	Sample Collected	LC34-DPT1011-038.0-20231024	(131+)	Gray; No Odor
1645:	LC34-DPT1011 pressure grouted 40’ to surface through rods; GPI offsite			
1700:	CS offsite			

10/25/2023 **LC34** **112G08985**

Personnel:	Chuck Sorden	(CS)	Geologist	Tt
	Mickey Ritter	(MR)	Driller	GPI
	Blake Handibode	(BH)	Tech	GPI

Weather: Sunny 75 degrees F Windy

PPE: Level D

Health and Safety (HAS): Topics – Insects/wildlife; PPE; Hydration

Objective: Continue LC34 202309 DPT GW Sampling Event

0700: Tt/GPI on site; HAS Meeting; daily prep
0730: LC34-DPT1011 pressure grouted 40' to surface through rods
0750: Rig, rods, and tooling decon'd with steam
0755: Set up on LC34-DPT1012 (Location 131); hand clear 5'
0800: Drilling Commenceed

0810:	Sample Collected	LC34-DPT1012-008.0-20231025	(131)	Gray; No Odor
0825:	Sample Collected	LC34-DPT1012-013.0-20231025	(131)	Gray; No Odor
0840:	Sample Collected	LC34-DPT1012-018.0-20231025	(131)	Gray; No Odor
0855:	Sample Collected	LC34-DPT1012-025.0-20231025	(131)	Gray; No Odor
0915:	Sample Collected	LC34-DPT1012-034.0-20231025	(131)	Gray; No Odor
0935:	Sample Collected	LC34-DPT1012-038.0-20231025	(131)	Gray; No Odor

0950: LC34-DPT1012 pressure grouted 40' to surface through rods
1000: Drilling Commenced on LC34-DPt1013 (Location 130); previously hand cleared 5'; using fresh rods/screens

1010:	Sample Collected	LC34-DPT1013-008.0-20231025	(130)	Gray; No Odor
1025:	Sample Collected	LC34-DPT1013-013.0-20231025	(130)	Gray; No Odor
1040:	Sample Collected	LC34-DPT1013-018.0-20231025	(130)	Gray; No Odor
1055:	Sample Collected	LC34-DPT1013-025.0-20231025	(130)	Gray; No Odor
1110:	Sample Collected	LC34-DPT1013-034.0-20231025	(130)	Gray; No Odor
1130:	Sample Collected	LC34-DPT1013-038.0-20231025	(130)	Gray; No Odor

1145: LC34-DPT1013 pressure grouted 40' to surface through rods
1200: Drilling Commenced on LC34-DPT1014 (Location 129); previously hand cleared 5'; using decon'd rods/screens

1210:	Sample Collected	LC34-DPT1014-008.0-20231025	(129)	Gray; No Odor
1220:	Sample Collected	LC34-DPT1014-013.0-20231025	(129)	Gray; No Odor
1235:	Sample Collected	LC34-DPT1014-018.0-20231025	(129)	Gray; No Odor
1250:	Sample Collected	LC34-DPT1014-025.0-20231025	(129)	Gray; No Odor
1305:	Sample Collected	LC34-DPT1014-034.0-20231025	(129)	Gray; No Odor
1325:	Sample Collected	LC34-DPT1014-038.0-20231025	(129)	Gray; No Odor

1340: LC34-DPT1014 pressure grouted 40' to surface through rods
1355: Drilling Commenced on LC34-DPT1015 (Location 128); previously hand cleared 5'

1405:	Sample Collected	LC34-DPT1015-008.0-20231025	(128)	Gray; No Odor
1415:	Sample Collected	LC34-DPT1015-013.0-20231025	(128)	Gray; No Odor

- Samples relinquished to Kyle Hoard for Delivery to Courier

1430:	Sample Collected	LC34-DPT1015-018.0-20231025	(128)	Gray; No Odor
1450:	Sample Collected	LC34-DPT1015-025.0-20231025	(128)	Gray; No Odor
1510:	Sample Collected	LC34-DPT1015-034.0-20231025	(128)	Gray; No Odor
1530:	Sample Collected	LC34-DPT1015-038.0-20231025	(128)	Gray; No Odor

1545: LC34-DPT1015 pressure grouted 40’ to surface through rods
1600: Drilling Commenced on LC34-DPT1016 (Location 135); previously hand cleared 5’; using decon’d rods/screens

1610: Sample Collected	LC34-DPT1016-008.0-20231025	(135)	Gray; No Odor
1625: Sample Collected	LC34-DPT1016-013.0-20231025	(135)	Gray; No Odor
1640: Sample Collected	LC34-DPT1016-018.0-20231025	(135)	Gray; No Odor
1655: Sample Collected	LC34-DPT1016-025.0-20231025	(135)	Gray; No Odor

- GPI offsite

1730: Site secured; Tt offsite

10/26/2023 **LC34** **112G08985**

Personnel:	Chuck Sorden	(CS)	Geologist	Tt
	Mickey Ritter	(MR)	Driller	GPI
	Blake Handibode	(BH)	Tech	GPI

Weather: Sunny 75 degrees F Windy
PPE: Level D
Health and Safety (HAS): Topics – Insects/wildlife; PPE; Hydration
Objective: Continue LC34 202309 DPT GW Sampling Event

0700: Tt/GPI on site; HAS meeting; daily prep
0730: Drilling resumed on LC34-DPT1016
0745: Sample Collected LC34-DPT1016-034.0-20231026 (135) Gray; No Odor
0810: Sample Collected LC34-DPT1016-038.0-20231026 (135) Gray; No Odor
0825: LC34-DPT1015 pressure grouted 40' to surface through rods; BH deconning
0835: Drilling Commenced on LC34-DPT1017 (Location 136); previously hand cleared 5'; using decon'd rods/screens
0845: Sample Collected LC34-DPT1017-008.0-20231026 (136) Gray; No Odor
0900: Sample Collected LC34-DPT1017-013.0-20231026 (136) Gray; No Odor
0915: Sample Collected LC34-DPT1017-018.0-20231026 (136) Gray; No Odor
0930: Sample Collected LC34-DPT1017-025.0-20231026 (136) Gray; No Odor
0945: Sample Collected LC34-DPT1017-034.0-20231026 (136) Gray; No Odor
1010: Sample Collected LC34-DPT1017-038.0-20231026 (136) Gray; No Odor
1025: LC34-DPT1017 pressure grouted 40' to surface through rods; BH Deconning
1035: Drilling Commenced on LC34-DPT1018 (Location 137); previously hand cleared 5'; using decon'd rods and screens
1045: Sample Collected LC34-DPT1018-008.0-20231026 (137) Gray; No Odor
1100: Sample Collected LC34-DPT1018-013.0-20231026 (137) Gray; No Odor
1115: Sample Collected LC34-DPT1018-018.0-20231026 (137) Gray; No Odor
1130: Sample Collected LC34-DPT1018-025.0-20231026 (137) Gray; No Odor
1145: Sample Collected LC34-DPT1018-034.0-20231026 (137) Gray; No Odor
1210: Sample Collected LC34-DPT1018-038.0-20231026 (137) Gray; No Odor
1225: LC34-DPT1018 pressure grouted 40' to surface through rods; MR deconning
1240: Rig, rods, and tooling decon'd with pressurized steam; begin mobilizing equipment to the other side of the concrete
1250: Drilling Commenced on LC34-DPT0984 (Location 122); previously hand cleared 5'; using decon'd rods/screens collecting samples bottom up per Tt PM
1305: Sample Collected LC34-DPT0984-043.0-20231026 (122) Gray; No Odor
1320: Sample Collected LC34-DPT0984-038.0-20231026 (122) Gray; No Odor
1335: LC34-DPT0984 pressure grouted 45' to surface through rods
1345: Drilling Commenced on LC34-DPT0952 (Location 100); previously hand cleared 5'; using decon'd rods and screens; MR deconning between samples; Starting new COC
1400: Sample Collected LC34-DPT0952-043.0-20231026 (100) Gray; No Odor
- CS relinquished samples to Chris to drop to Eurofins Courier
1415: Sample Collected LC34-DPT0952-038.0-20231026 (100) Gray; No Odor
1430: LC34-DPT0952 pressure grouted 45' to surface through rods
1440: Drilling Commenced on LC34-DPT0943 (Location 89); previously hand cleared 5'; using decon'd rods and screens; MR deconning between samples

1455: Sample Collected LC34-DPT0943-043.0-20231026 (89) Gray; No Odor
1510: Sample Collected LC34-DPT0943-038.0-20231026 (89) Gray; No Odor
1525: LC34-DPT0943 pressure grouted 45’ to surface through rods
1535: Drilling commenced on LC34-DPT0944 (Location 88); previously hand cleared 5’; using decon’d rods/screens; MR deconning between samples
1550: Sample Collected LC34-DPT0944-043.0-20231026 (88) Gray; No Odor
1605: Sample Collected LC34-DPT0944-038.0-20231026 (88) Gray; No Odor
1620: LC34-DPT0944 pressure grouted 40’ to surface through rods
1630: Drilling Commenced on LC34-DPT0949 (Location 97); hand cleared 5’; using decon’d rods and screens
1645: Sample Collected LC34-DPT0949-043.0-20231026 (97) Gray; No Odor
1700: Sample Collected LC34-DPT0949-038.0-20231026 (97) Gray; No Odor

- GPI offsite

1730: CS Offsite

10/27/2023 **LC34** **112G08985**

Personnel:	Chuck Sorden	(CS)	Geologist	Tt
	Mickey Ritter	(MR)	Driller	GPI
	Blake Handibode	(BH)	Tech	GPI

Weather: Sunny 75 degrees F Windy
PPE: Level D
Health and Safety (HAS): Topics – Insects/wildlife; PPE; Hydration
Objective: Continue LC34 202309 DPT GW Sampling Event

0700: Tt/GPI on site; HAS meeting; daily prep
0745: LC34-DPT0949 pressure grouted 45' to surface through rods
0755: Rig, rods, and tooling decon'd with pressurized steam
0800: Drilling Commenced on LC34-DPT0946 (Location 85); previously hand cleared 5'; moved approximately 15' away from pad to avoid concrete culvert structures; using fresh rods/screens; Adjusting depths 4' deeper to account for grade change; nomenclature depths remain the same for consistency

0815: Sample Collected	LC34-DPT0946-043.0-20231027	(85)	Gray; No Odor
0830: Sample Collected	LC34-DPT0946-038.0-20231027	(85)	Gray; No Odor

0845: LC34-DPT0946 pressure grouted 45' to surface through rods; begin mobilizing to LC34-DPT0995 (Location 23)
0905: Drilling Commenced on LC34-DPT0995; hand cleared 5'; using decon'd rods/screens

0920: Sample Collected	LC34-DPT0995-043.0-20231027	(23)	Gray; No Odor
0935: Sample Collected	LC34-DPT0995-038.0-20231027	(23)	Gray; No Odor

0950: LC34-DPT0995 pressure grouted 45' to surface through rods; MBH Deconning
1000: Drilling Commenced on LC34-DPT0996 (Location 16); hand cleared 5'; using decon'd rods/screens

1015: Sample Collected	LC34-DPT0996-043.0-20231027	(16)	Gray; No Odor
1030: Sample Collected	LC34-DPT0996-038.0-20231027	(16)	Gray; No Odor

1045: LC34-DPT0996 pressure grouted 45' to surface through rods; begin mobilizing to LC34-DPT0998 (Location 148) along the north end of Phillip's Parkway sample line; Collected 32', 25', and 18', bottom up over Tt PM request
1105: Arrive at LC34-DPT0998 (Location 148); hand clear 5'
1110: Drilling Commenced

1125: Sample Collected	LC34-DPT0998-032.0-20231027	(148)	Gray; No Odor
1140: Sample Collected	LC34-DPT0998-025.0-20231027	(148)	Gray; No Odor
1155: Sample Collected	LC34-DPT0998-018.0-20231027	(148)	Gray; No Odor

1210: LC34-DPT0998 pressure grouted 34' to surface through rods; LC34 202309 DPT GW Investigation Complete; begin demob
1300: GPI offsite
1430: Samples relinquished to courier; site secured; Tt offsite

APPENDIX E

DESIGN CALCULATIONS

Tetra Tech			**Air Sparge Pressure Calculation**
SITE: LC34 Hot Spot 6 - Phase 3 Expansion	CHECKED BY: LM	BY: AW	PAGE:
SUBJECT: Wellhead Pressure and Line Loss Calc.	FILE No: 112G08985	DATE: 4/9/2024	1 OF 1

Design Wellhead Pressure Calculation:

	Zone 17 (Area 1)	**Zone 20 (Area 2)**	
Well Screen Depth	**40.0**	**40.0**	INPUT
DTW (average)	3.0	3.0	
Water Column	37.0	37.0	
$S.G._{water}$	1.0	1.0	
$S.G._{soil}$	2.3	2.3	
Porosity	0.30	0.30	
$P_{soil\ column}$	25.8	25.8	
$P_{watercolumn}$	4.8	4.8	
$P_{total\ overburden\ pressure}$	30.6	30.6	
%Maximum Overburden Pressure	70%	70%	
$P_{design\ wellhead\ (gauge)}$	**21.4**	**21.4**	

	Zone 17 (Area 1)		Zone 20 (Area 2)	
Air Conveyance Line Loss Calculation:	Header	Max Lateral	Header	Max Lateral
D, Nominal Pipe Diam (in)	2	1	2	1
L, Pipe Length (ft) * 1.25 (safety factor)	1563	938	2500	313
Q, Air Flow Rate (cfm)	170	5	110	5
f, Friction Factor (in. w.c./ft)[2]	0.165	0.009	0.076	0.009
Quantity of 45 deg. Elbows	5	4	5	4
Quantity of 90 deg. Elbows	5	4	5	4
Quantity of Gate Valves (Fully Open)	2	1	2	1
Quantity of Branch Tees	2	2	2	2
Total Equivalent Length	1627	966	2564	341
Line Friction Loss (in. w.c.)	267.9	9.0	194.5	3.2
Line Friction Loss (psi)	9.7	0.3	7.0	0.1

Pressure Summary:

Header Line Loss	**9.7 psi**	**7.0 psi**
Lateral Line Loss	**0.3 psi**	**0.1 psi**
Assumed Dist. Manifold Pressure Loss	**5.0 psi**	**5.0 psi**
Wellhead Pressure	**21.4 psi**	**21.4 psi**

[2] Refer to subsequent friction factor calculations (turbulant flow assumed)

Pressure at System Manifold Discharge:	
System Manifold Pressure: Zone 17 (Area 1)	**36.4 psig**
System Manifold Pressure: Zone 20 (Area 2)	**33.6 psig**

Fitting Equivalent Pipe Lengths (ft)	1" ID	2" ID
Elbows (45 deg)	1.3	2.5
Elbows (90 deg)	2.7	5.5
Gate Valve (Fully Open)	0.6	1.2
Branch Tee	5.8	11.0

Friction factor calculation (Zone 17 Header)

For turbulent flow:

$f=1.35/[\ln(e/(3.7*D) + 5.74/Re^{0.9})]^2$

Q	volumetric flow at standard conditions	170	SCFM	or	0.080231065	m^3/sec
P1	pipe inlet absolute pressure (assumed as average)	45.74	psi	or	315360.2163	Pa
T	pipe air temperature	85	deg. F	or	302	deg. K
Pst	standard atmospheric pressure	14.70	psi		101325	Pa
Tst	standard temperature (NIST)	68	deg. F	or	293	deg. K
D	pipe ID	2	inches	or	0.0508	meters
A	pipe cross section area	3.1415927	sq. in.	or	0.00202683	square meters
V	actual fluid velocity (V = Q/A*(Pst/P1)*(T/Tst)	2584.34	feet/min	or	13.13	m/sec
mu	dynamic viscosity at reference temperature	1.64E-04	f^2/sec	or	1.83E-05	kg/(m*sec)
Tref	reference temperature				291.15	deg. K
mu	dynamic viscosity at actual temperature				1.88E-05	kg/(m*sec)
ro	air density at inlet conditions (ro=P1/(R*T)				3.63	kg/m^3
Re	Re = V * D * ro/ mu				1.29E+05	turbulent
e	pipe roughness (PVC, plastic)				0.00002	m
f	**pipe friction coefficient**				**0.020**	

Pressure loss calculation

P1	pipe inlet absolute pressure	45.739134	psi	or	315360.2163	Pa
L	pipe length	1563	feet	or	476	meters
R	gas constant				286.9	J/(kg*K)
T	pipe air temperature	85	deg. F	or	302	deg. K
r	air density at standard conditions	0.075	lb/f^3	or	1.20	kg/m^3
w	mass flow rate W = Q * r	12.75	lb/min		0.0966	kg/sec
P2	**pressure at the end of pipe (absolute)**	**36.5**	**psi**	**or**	**251318**	**Pa**
DP	**pipe pressure loss**	**9.29**	**psi**	**or**	**64042**	**Pa**
P2	**pressure at end of pipe (gauge)**	**21.8**	**psi**			

Friction factor calculation (Zone 17 Max Lateral)

For turbulent flow:

$f=1.35/[\ln(e/(3.7*D) + 5.74/Re^{0.9})]^2$

Q	volumetric flow at standard conditions	5	SCFM	or	0.002359737	m^3/sec
P1	pipe inlet absolute pressure (assumed as average)	36.45	psi	or	251318.0426	Pa
T	pipe air temperature	85	deg. F	or	302	deg. K
Pst	standard atmospheric pressure	14.70			101325	Pa
Tst	standard temperature (NIST)	68	deg. F	or	293	deg. K
D	pipe ID	1	inches	or	0.0254	meters
A	pipe cross section area	0.7853982	sq. in.	or	0.000506707	square meters
V	actual fluid velocity (V = Q/A*(Pst/P1)*(T/Tst)	381.52	feet/min		1.94	m/sec
mu	dynamic viscosity at reference temperature	1.64E-04	f^2/sec		1.83E-05	kg/(m*sec)
Tref	reference temperature				291.15	deg. K
mu	dynamic viscosity at actual temperature				1.88E-05	kg/(m*sec)
ro	air density at inlet conditions (ro=P1/(R*T)				2.90	kg/m^3
Re	Re = V * D * ro/ mu				7.57E+03	turbulent
e	pipe roughness (PVC, plastic)				0.00002	m
f	**pipe friction coefficient**				**0.035**	

Pressure loss calculation

P1	pipe inlet absolute pressure	36.450602	psi	or	251318.0426	Pa
L	pipe length	938	feet	or	286	meters
R	gas constant				286.9	J/(kg*K)
T	pipe air temperature	85	deg. F	or	302	deg. K
r	air density at standard conditions	0.075	lb/f^3	or	1.20	kg/m^3
w	mass flow rate W = Q * r	0.38	lb/min		0.0028	kg/sec
P2	**pressure at the end of pipe (absolute)**	**36.1**	**psi**	**or**	**249153**	**Pa**
DP	**pipe pressure loss**	**0.31**	**psi**	**or**	**2165**	**Pa**
P2	**pressure at end of pipe (gauge)**	**21.4**	**psi**			

Friction factor calculation (Zone 20 Header)

For turbulent flow:

$f=1.35/[\ln(e/(3.7*D) + 5.74/Re^{0.9})]^2$

Q	volumetric flow at standard conditions	110	SCFM	or	0.051914219	m^3/sec
P1	pipe inlet absolute pressure (assumed as average)	43.09	psi	or	297062.8994	Pa
T	pipe air temperature	85	deg. F	or	302	deg. K
Pst	standard atmospheric pressure	14.70	psi		101325	Pa
Tst	standard temperature (NIST)	68	deg. F	or	293	deg. K
D	pipe ID	2	inches	or	0.0508	meters
A	pipe cross section area	3.1415927	sq. in.	or	0.00202683	square meters
V	actual fluid velocity (V = Q/A*(Pst/P1)*(T/Tst)	1775.22	feet/min	or	9.02	m/sec
mu	dynamic viscosity at reference temperature	1.64E-04	f^2/sec	or	1.83E-05	kg/(m*sec)
Tref	reference temperature				291.15	deg. K
mu	dynamic viscosity at actual temperature				1.88E-05	kg/(m*sec)
ro	air density at inlet conditions (ro=P1/(R*T)				3.42	kg/m^3
Re	Re = V * D * ro/ mu				8.33E+04	turbulent
e	pipe roughness (PVC, plastic)				0.00002	m
f	**pipe friction coefficient**				**0.021**	

Pressure loss calculation

P1	pipe inlet absolute pressure	43.085333	psi	or	297062.8994	Pa
L	pipe length	2500	feet	or	762	meters
R	gas constant				286.9	J/(kg*K)
T	pipe air temperature	85	deg. F	or	302	deg. K
r	air density at standard conditions	0.075	lb/f^3	or	1.20	kg/m^3
w	mass flow rate W = Q * r	8.25	lb/min		0.0625	kg/sec
P2	**pressure at the end of pipe (absolute)**	**36.2**	**psi**	**or**	**249877**	**Pa**
DP	**pipe pressure loss**	**6.84**	**psi**	**or**	**47186**	**Pa**
P2	**pressure at end of pipe (gauge)**	**21.5**	**psi**			

Friction factor calculation (Zone 20 Max Lateral)

For turbulent flow:

$f=1.35/[\ln(e/(3.7*D) + 5.74/Re^{0.9})]^2$

Q	volumetric flow at standard conditions	5	SCFM	or	0.002359737	m^3/sec
P1	pipe inlet absolute pressure (assumed as average)	36.24	psi	or	249876.6628	Pa
T	pipe air temperature	85	deg. F	or	302	deg. K
Pst	standard atmospheric pressure	14.70			101325	Pa
Tst	standard temperature (NIST)	68	deg. F	or	293	deg. K
D	pipe ID	1	inches	or	0.0254	meters
A	pipe cross section area	0.7853982	sq. in.	or	0.000506707	square meters
V	actual fluid velocity (V = Q/A*(Pst/P1)*(T/Tst)	383.72	feet/min		1.95	m/sec
mu	dynamic viscosity at reference temperature	1.64E-04	f^2/sec		1.83E-05	kg/(m*sec)
Tref	reference temperature				291.15	deg. K
mu	dynamic viscosity at actual temperature				1.88E-05	kg/(m*sec)
ro	air density at inlet conditions (ro=P1/(R*T)				2.88	kg/m^3
Re	Re = V * D * ro/ mu				7.57E+03	turbulent
e	pipe roughness (PVC, plastic)				0.00002	m
f	**pipe friction coefficient**				**0.035**	

Pressure loss calculation

P1	pipe inlet absolute pressure	36.241547	psi	or	249876.6628	Pa
L	pipe length	313	feet	or	95	meters
R	gas constant				286.9	J/(kg*K)
T	pipe air temperature	85	deg. F	or	302	deg. K
r	air density at standard conditions	0.075	lb/f^3	or	1.20	kg/m^3
w	mass flow rate W = Q * r	0.38	lb/min		0.0028	kg/sec
P2	**pressure at the end of pipe (absolute)**	**36.1**	**psi**	**or**	**249153**	**Pa**
DP	**pipe pressure loss**	**0.10**	**psi**	**or**	**724**	**Pa**
P2	**pressure at end of pipe (gauge)**	**21.4**	**psi**			

APPENDIX F

PERMITS

(Completed permits will be added to the field copy of this IWP as received, and included in future Construction Completion reporting)

BASE CIVIL ENGINEERING WORK CLEARANCE REQUEST

(See Instructions on Reverse)

DATE PREPARED: 20240315

1. Clearance is requested to proceed with work at: Launch Complex 34 - Air Sparging Interim Measure Expansion

on Work Order No. 30663325, Contract No. 80KSC019F0067, involving excavation or utility disturbance per attached sketch. This area ☐ has ☒ has not been staked or clearly marked.

2. TYPE OF FACILITY/WORK INVOLVED

☐ A. PAVEMENTS	☐ D. FIRE DETECTION & PROTECTION SYSTEMS			☐ G. AIRCRAFT OR VEHICULAR TRAFFIC FLOW
☐ B. DRAINAGE SYSTEMS	☐ E. UTILITY	☐ OVERHEAD	☐ UNDERGROUND	☐ H. SECURITY
☐ C. RAILROAD TRACKS	☐ F. COMM	☐ OVERHEAD	☐ UNDERGROUND	☐ I. OTHER

3. DATE CLEARANCE REQUIRED	4. DATE OF CLEARANCE	
20240401		
5. SIGNATURE OF REQUESTING OFFICIAL: Mark Jannet Click to sign	6. TELEPHONE NO.: (412) 921-8622	7. ORGANIZATION: Tetra Tech (Contractor)

	ORGANIZATION	REMARKS *(Use Reverse for additional comments)*	REVIEWER'S NAME AND INITIALS
8. BASE CIVIL ENGINEERING	A. ELECTRICAL DISTRIBUTION	Locate Before Dig	Click to sign
	B. STEAM DISTRIBUTION		Click to sign
	C. WATER DISTRIBUTION		Click to sign
	D. POL DISTRIBUTION		Click to sign
	E. SEWER DISTRIBUTION		Click to sign
	F. ENVIRONMENTAL	Approved	Heather Gorlin Click to sign
	G. PAVEMENTS/ GROUNDS	NO Issues	Click to sign
	H. FIRE PROTECTION	No issues	PATEN.JONTA.L.1102859258 Digitally signed by PATEN.JONTA.L.1102859258 Date: 2024.03.15 07:02:05 -04'00'
	I. ZONE IRP	See Attached Email	Brian Ellis Click to sign
	J. OTHER *(Specify)* Real Property	Submit DD1354 or NF1046	Click to sign
9. SECURITY POLICE		Concurs	Dominic Bayly Click to sign
10. SAFETY		NO Concerns	Scott Hazen Click to sign
11. COMMUNICATIONS		Call for Comm Locates 853-2411	Ed Griffin Click to sign
12. ~~BASE OPERATIONS~~ Sitim		NO Issues	Markus George Click to sign
13. ~~CABLE TV~~ CE Design RVW		NA	Jacob Baird Click to sign
14. COMMERCIAL UTILITY COMPANY ☐ TELEPHONE ☐ GAS ☐ ELECTRIC			Click to sign

15. OTHER *(Specify)*: 30663521

16. REQUESTED CLEARANCE: ☑ APPROVED ☐ DISAPPROVED

17. TYPED NAME AND SIGNATURE OF APPROVING OFFICER *(Chief of Operations Flight or Chief of Engineering Flight)*: Elaine M Stark Click to sign

17a. DATE SIGNED: 3/22/2024

AF IMT 103, 19940801, V3 PREVIOUS EDITIONS ARE OBSOLETE.

INSTRUCTIONS

The BCE work clearance request is used for any work (contract or in-house) that may disrupt aircraft or vehicular traffic flow, base utility services, protection provided by fire and intrusion alarm system, or routine activities of the installation. This form is used to coordinate the required work with key base activities and keep customer inconvenience to a minimum. It is also used to identify potentially hazardous work conditions in an attempt to prevent accidents. The work clearance request is processed just prior to the start of work. If delays are encountered and the conditions at the job site change (or may have changed) this work clearance request must be reprocessed.

18. REMARKS. *(This section must describe specific precautionary measure to be taken before and during work accomplishment. Specific comments concerning the approved method of excavation, hand or powered equipment, should be included.)*

Install 170 air sparge wells (ASWs) in Area #1 and 22 ASWs in Area #2 to treat impacted groundwater associated with the Launch Complex 34 groundwater plume (see Figures 1, 2 and 3 included in the AF 332). This will be an expansion of the existing Hot Spot 6 air sparging treatment system already in place, and will use the compressor trailer already installed at the site. The ASWs will be completed below grade (no well pads or stick-ups), and will be installed at sufficient distance away from historical features to avoid impact. Subsurface piping will connect the ASWs to the existing compressor trailer located under Van Shelter 22004. Trenching will be required to install subsurface piping, and will be routed to avoid impact to historical features. Two distribution trailers will be installed to support the ASWs. Additionally, a network of 12 new monitoring wells will be installed in the expansion areas (see Figure 3 attached) to monitor performance of the system. The new monitoring wells will be flush-mount with ground surface.

Note: NASA is working with 45 CES/CEIE on environmental requirements identified in the AF 332. NASA Cultural Resources will document this project in NASA's Annual Report to SHPO to cover Section 106 consultation requirements.

AF FORM 103 ATTACHMENT

WORK ORDER NUMBER: _____

HAND DIG ONLY: YES NO LOCATORS INITIALS: _____
Sean O'Brien

OPERATIONAL RESTRICTIONS:
Hand dig within 24 inches in all directions of locator markings. Contact Utility Locator if marks have faded or are disturbed in any manner. Customer shall mark or coordinate with the locator a white paint border around the area to excavate. Do not excavate outside of the area marked with this border.

CUSTOMER MUST COORDINATE WITH:

COMM. LOCATES
(CALL 321.853.2141)

GAS LINE LOCATES CONTACT:
Sunshine State One Call @ 811 or 1-800-432-4770
Locate Ticket Number

NATURAL RESOURCES SURVEY:
Customer must coordinate with the Air Force Natural Resources (45 CES/CEIE-C) office at least 3 weeks prior to mobilization unless as emergency. Contact numbers: 321 853 6822, 321 794.5268 or 321 853 0964 (to determine if any wildlife or habitat needs to be protected). 45 CES/CEIE-C APPROVED

See Attached email
Megan Nicely
386-316-0812

Notify CLOIS Locator for remarking of utilities if required.
SEAN O'BRIEN (CLOIS LOCATOR SERVICES)
321-853-5525 (Office)
321-609-8322 (Cell)
321 853 5211 (Cape Support)

REPORT ALL UTILITY BREAKS TO CAPE SUPPORT IMMEDIATELY.

CRITICAL DAY NOTICE

Contractor SHALL contact Cape Support, 321.853.5211, each day prior to commencing any digging or excavation work.

Work Order/Dig Permit number will be required for permission to proceed.

Request locator service only within 45 days of the estimated start of the excavation operation.

Maintain marks per locator instructions or request remarking by the locator. (Locator response may require a 72 hour notice)

Notify the Duty Office or permit administrator when excavation operations have been completed.

CUSTOMER PRINTED NAME _____ CUSTOMER SIGNATURE _____ DATE _____

SWD 103

2/28/2024

BASE CIVIL ENGINEER WORK REQUEST
(See Reverse for Instructions)

Form Approved
OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average 3 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to the Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project 0704-0188, Washington DC 20503. Please DO NOT RETURN your form to either of these addresses. Send your completed form to HQ AFESC/DEMG

SECTION I - TO BE COMPLETED BY REQUESTER

1. FROM *(Organization)*	2. OFFICE SYMBOL	3. DATE OF REQUEST	4. WORK REQUEST NO *(For BCE Use)*
Tetra Tech (Contractor)		02/28/2024	30663325

5. NAME AND PHONE NO. OF REQUESTER	6. REQUIRED COMPLETION DATE	7. BUILDING, FACILITY OR STREET ADDRESS WHERE WORK IS TO BE ACCOMPLISHED
Mark Jonnet (Tetra Tech), 412-921-8622	12/31/2024	Launch Complex 34

8. DESCRIPTION OF WORK TO BE ACCOMPLISHED *(Include Sketch or Plan, when appropriate)*

Install 170 air sparge wells (ASWs) in Area #1 and 22 ASWs in Area #2 to treat impacted groundwater associated with the Launch Complex 34 groundwater plume (see Figures 1, 2 and 3 attached). This will be an expansion of the existing Hot Spot 6 air sparging treatment system already in place, and will use the compressor trailer already installed at the site. The ASWs will be completed below grade (no well pads or stick-ups), and will be installed at sufficient distance away from historical features to avoid impact. Subsurface piping will connect the ASWs to the existing compressor trailer located under Van Shelter 22004. Trenching will be required to install subsurface piping, and will be routed to avoid impact to historical features. Two distribution trailers will be installed to support the ASWs. Additionally, a network of 12 new monitoring wells will be installed in the expansion areas (see Figure 3 attached) to monitor performance of the system. The new monitoring wells will be flush-mount with ground surface. Note, this area was included in the 2022 USFWS Biological Opinion.

9. BRIEF JUSTIFICATION FOR WORK TO BE ACCOMPLISHED *(Not required for maintenance and repair)*

Regulatory commitment for corrective action at Solid Waste Management Unit, which is being performed under the Kennedy Space Center (KSC) Resource Conservation and Recovery Act (RCRA) permit.

10. DONATED RESOURCES

KREMPJ00

☑ FUNDS	☐ LABOR	☐ MATERIAL	☐ CONTRACT BY REQUESTER	☐ NONE

11. NAME OF REQUESTER	12. GRADE OF REQUESTER	13. SIGNATURE OF REQUESTER *(See Reverse of Form)*
Edith Johansen, SI-E2	GS-13	Edith Johansen Digitally signed by Edith Johansen Date: 2024.02.28 11:17:32 -05'00'

14. COORDINATION

3/6/24

SECTION II - FOR BASE CIVIL ENGINEER USE

15. WORK ORDER *(Place an "X" in the appropriate box.)*

☐ IN-SERVICE	☐ SELF-HELP	☐ CONTRACT	☐ SABER

16. DIRECT SCHEDULED WORK *(Place an "X" in the appropriate box.)*

☐ EMERGENCY	☐ URGENT	☐ ROUTINE	☐ SELF-HELP	☐ M/C

17. SELF-HELP *(Place an "X" in the appropriate box.)*

☐ BRIEFING REQUIRED	☐ ADEQUATE COORDINATION	☐ INSPECTION REQUIRED

SECTION III - COMPLETE ONLY IF WORK IS TO BE ACCOMPLISHED BY WORK ORDER

18. WORK CLASS	19. PRIORITY	20. ESTIMATED HOURS	21. ESTIMATED FUNDED COST	22. ESTIMATED TOTAL COST

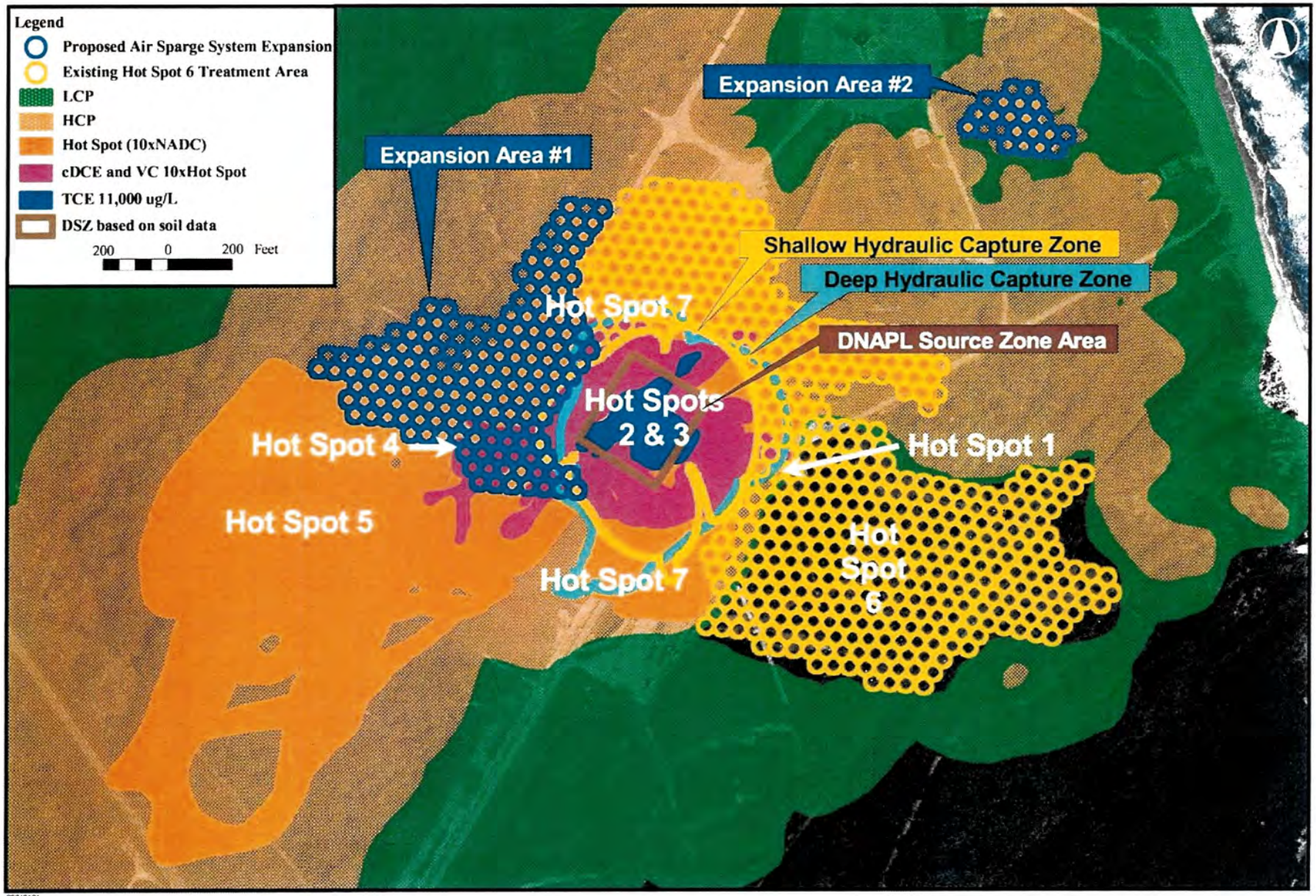
☐ 23. THERE IS NO NEED FOR AN ENVIRONMENTAL ASSESSMENT (AFR 19-2)	☐ 24. A WRITTEN ASSESSMENT IS BEING/HAS BEEN PROCESSED	☐ 25. APPROVED	☐ 26. DISAPPROVED

27. REMARKS

SECTION IV - APPROVING AUTHORITY

28. NAME AND GRADE *(Please Type or Print)*	29. SIGNATURE	30. DATE

FIGURE 1 HOT SPOT LOCATION MAP
SWMU CC054, LAUNCH COMPLEX 34, CAPE CANAVERAL SPACE FORCE STATION, FLORIDA



20240124

FIGURE 2 HOT SPOT 6 EXPANSION - PHASE THREE - TRENCHING LAYOUT
SWMU CC054, LAUNCH COMPLEX 34, CAPE CANAVERAL SPACE FORCE STATION, FLORIDA

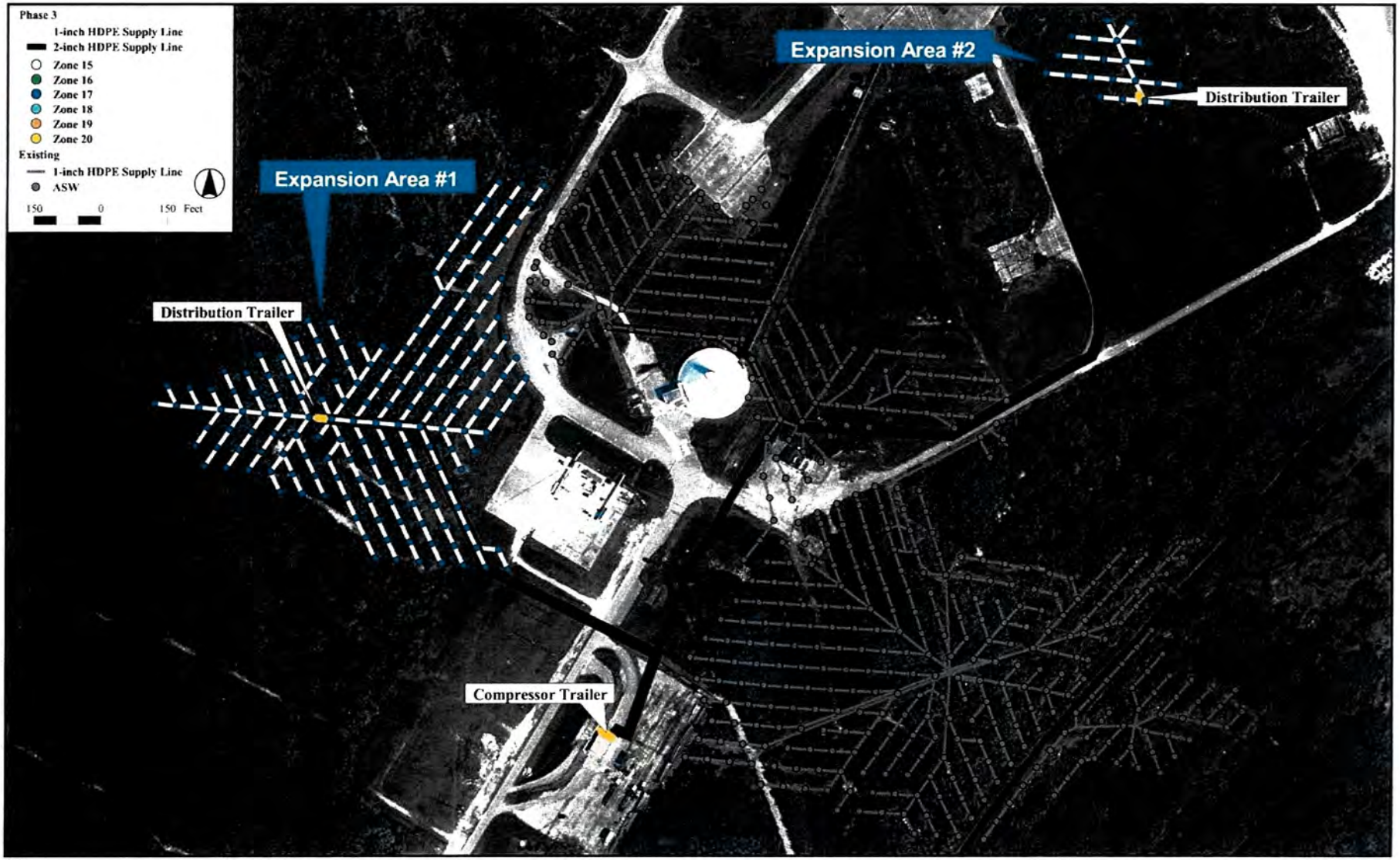
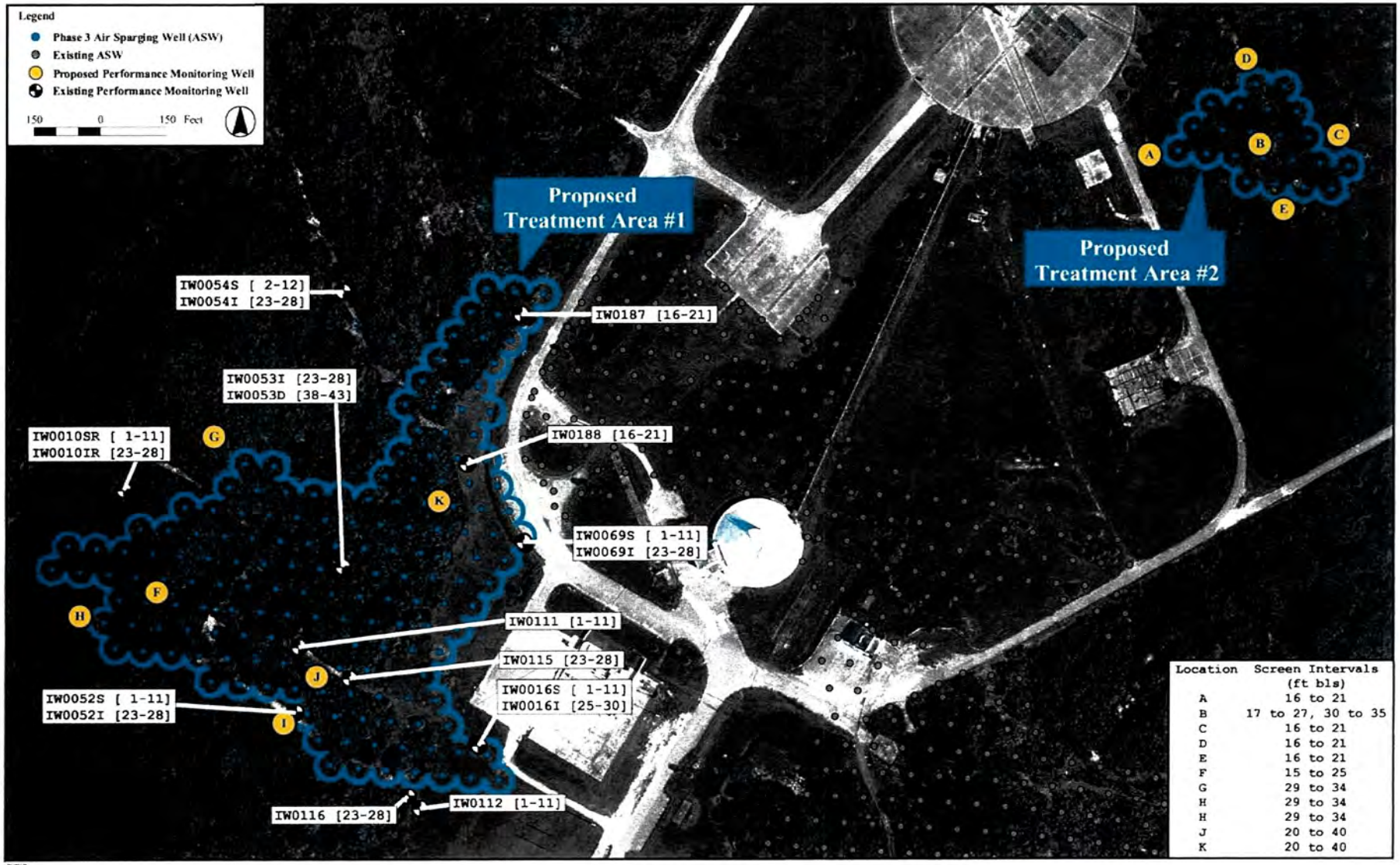


FIGURE 3 HOT SPOT 6 EXPANSION - PHASE THREE - PROPOSED PERFORMANCE MONITORING WELL LOCATION MAP
SWMU CO54, LAUNCH COMPLEX 34, CAPE CANAVERAL SPACE FORCE STATION, FLORIDA



Location	Screen Intervals (ft bls)
A	16 to 21
B	17 to 27, 30 to 35
C	16 to 21
D	16 to 21
E	16 to 21
F	15 to 25
G	29 to 34
H	29 to 34
H	29 to 34
J	20 to 40
K	20 to 40

3	TETRA TECH INSTALL 170 AIR SPARGE WELLS (ASWS) COORDINATION 30663325 *Please read and comply to all remarks made by reviewers written on 332, within this section and email direction attached to this package. 103 submissions and reviewer contact request can be sent to workmgt@us.af.mil Real Property, facility, Space Allocation requirements, 1354's etc., will need to be sent to 45CES.CLOIS.AssetManagement@us.af.mil	CX34	MARK JONNET	412-921-8622	2/28/2024	CE	COORDINATION 103
						FIRE	No issues
						SAFETY	SE Office: Concur, with no comments.
						SITING/SPACE ALLOC	No issues from CENPL.
						IRP	The proposed work impacts the SLC-34 groundwater plume. Work is being done under the oversight of KSC Environmental POC = Deda Johansen, edith.m.johansen@nasa.gov . Any further coodination or concerns should be routed through the above listed KSC POC.
						ENVIRO	CATEX A2.3.26. Requirements of the USFWS Biological Opinion for the site must be followed. No compliance concerns.
						SECURITY	No comments
						ENERGY	No comments.
						CLOIS REAL PROP	Submit DD1354 / NF 1046
						CLOIS ENVIRO	No comments.
						COMM	

BASE CIVIL ENGINEERING WORK CLEARANCE REQUEST

(See Instructions on Reverse)

DATE PREPARED: 20240315

1. Clearance is requested to proceed with work at: Launch Complex 34 - Air Sparging Interim Measure Expansion

on Work Order No. 30663325, Contract No. 80KSC019F0067, involving excavation or utility disturbance per attached sketch. This area ☐ has ☒ has not been staked or clearly marked.

2. TYPE OF FACILITY/WORK INVOLVED

☐ A. PAVEMENTS	☐ D. FIRE DETECTION & PROTECTION SYSTEMS			☐ G. AIRCRAFT OR VEHICULAR TRAFFIC FLOW
☐ B. DRAINAGE SYSTEMS	☐ E. UTILITY	☐ OVERHEAD	☐ UNDERGROUND	☐ H. SECURITY
☐ C. RAILROAD TRACKS	☐ F. COMM	☐ OVERHEAD	☐ UNDERGROUND	☐ I. OTHER

3. DATE CLEARANCE REQUIRED	4. DATE OF CLEARANCE	
20240401		
5. SIGNATURE OF REQUESTING OFFICIAL: Click to sign	6. TELEPHONE NO.: (412) 921-8622	7. ORGANIZATION: Tetra Tech (Contractor)

	ORGANIZATION	REMARKS *(Use Reverse for additional comments)*	REVIEWER'S NAME AND INITIALS
8. BASE CIVIL ENGINEERING	A. ELECTRICAL DISTRIBUTION		Click to sign
	B. STEAM DISTRIBUTION		Click to sign
	C. WATER DISTRIBUTION		Click to sign
	D. POL DISTRIBUTION		Click to sign
	E. SEWER DISTRIBUTION		Click to sign
	F. ENVIRONMENTAL		Click to sign
	G. PAVEMENTS/ GROUNDS		Click to sign
	H. FIRE PROTECTION		Click to sign
	I. ZONE _____		Click to sign
	J. OTHER *(Specify)*		Click to sign
9. SECURITY POLICE			Click to sign
10. SAFETY			Click to sign
11. COMMUNICATIONS			Click to sign
12. BASE OPERATIONS		No issues from CENPL.	GEORGE.ELDRED.MARKUS.1032621879 Digitally signed by GEORGE.ELDRED.MARKUS.1032621879 Date: 2024.03.15 07:31:06 -04'00'
13. CABLE TV			Click to sign
14. COMMERCIAL UTILITY COMPANY ☐ TELEPHONE ☐ GAS ☐ ELECTRIC			Click to sign

15. OTHER *(Specify)*

16. REQUESTED CLEARANCE ☐ APPROVED ☐ DISAPPROVED

17. TYPED NAME AND SIGNATURE OF APPROVING OFFICER *(Chief of Operations Flight or Chief of Engineering Flight)*: Click to sign

17a. DATE SIGNED

AF IMT 103, 19940801, V3

PREVIOUS EDITIONS ARE OBSOLETE.

HERMANSON, SCOTT D CTR USSF SSC CLOIS/ASRCC

From: CREIGHTON, EDWARD W III CTR USSF E-LTRS/COMM
Sent: Friday, March 15, 2024 8:40 AM
To: Cape Canaveral CLOIS Work Management
Subject: RE: 103 - 30663521 - 103 INSTALL 170 AIR SPARGE WELLS FW: 30663325 332 INSTALL 170 AIR SPARGE WELLS RE: Launch Complex 34 AF 332 Submission for Hot Spot 6 IM Phase 3 Expansion

Call for Comm. locates 853-2141

Ed Creighton
RGNext Comm.

From: Cape Canaveral CLOIS Work Management <workmgt@us.af.mil>
Sent: Friday, March 15, 2024 7:00 AM
To: GOSLIN, HEATHER R CIV USSF USSPACECOM 45 CES/CEIE <heather.goslin.1@usspacecom.mil>; AMOS, GARRY J JR CTR USSF SSC 45 CES/PatrickF2F <garry.amos.ctr@spaceforce.mil>; JANISE, TAYLOR M CIV USSF HQSF 45 CES/CEIE-C <taylor.janise.1@spaceforce.mil>; DIXON, FRANCES A CTR USSF SSC 45 CES/PatrickF2F <frances.dixon.1.ctr@spaceforce.mil>; BLAYLOCK, MICHAEL A CIV USSF HQSF 45 CES/CEIE <michael.blaylock.4@spaceforce.mil>; PATEN, JONTA L CTR USSF WSI 001/FEMS <jonta.paten.1.ctr@spaceforce.mil>; LORENZ, LOREN M CIV USSF AFMC AFCEC/CZO <loren.lorenz.1@spaceforce.mil>; LANGETT, JOHN M CIV USAF AFCEC AFCEC/CZOE <john.langett.1@us.af.mil>; LLOYD, JAMES B CIV USSF SSC AFCEC/CZO <james.lloyd.25@spaceforce.mil>; ELLIS, BRIAN K CIV USSF SSC AFCEC/CZOE <brian.ellis.13@spaceforce.mil>; HAGEN, SCOTT A CIV USSF SSC SLD 45/SEG <scott.hagen@spaceforce.mil>; POLLAN, WILLIAM A CIV USSF SSC SLD 45/SEAT <william.pollan.1@spaceforce.mil>; LANGLEY, DOMINICA D CIV USSF SSC 45 SFS/S5 <dominica.langley.1@spaceforce.mil>; HILL, NATALIE N CIV USSF SSC 45 SFS/S5SP <natalie.hill.3@spaceforce.mil>; BOATENG, FREDERICK CIV USSF SSC 45 CES/CENP <frederick.boateng@spaceforce.mil>; GEORGE, ELDRED M CIV USSF SSC 45 CES/CENPL <eldred.george.2@spaceforce.mil>; SALGUEIRO, VANESSA CIV USSF SSC 45 CES/CENPL <vanessa.salgueiro@spaceforce.mil>; CHRISTIANSEN, KARL T CIV USSF SSC 45 CES/CENPL <karl.christiansen@spaceforce.mil>; RODRIGUEZ, DIEGO CIV USSF SSC 45 CES/CENPL <diego.rodriguez.12@spaceforce.mil>; CHAMBERS, ANGY L CIV USSF SSC 45 CES/CEIE <angy.chambers@spaceforce.mil>; CARSON, MARTHA C CIV USSF SSC 45 CES/CEIE <martha.carson@spaceforce.mil>; CREIGHTON, EDWARD W III CTR USSF E-LTRS/COMM <edward.creighton.ctr@spaceforce.mil>; NICELY, MEGAN E CIV USSF SSC 45 CES/CEIE-C <megan.nicely.1@spaceforce.mil>; MANDEL, RACHEL N CIV USSF SSC 45 CES/CEIE <rachel.mandel.2@spaceforce.mil>; ROSSWICK, SHAWN M CTR USSF SSC CLOIS/ASRCC <shawn.rosswick.ctr@spaceforce.mil>
Cc: LAIRD, JACOB D CIV USSF SSC 45 CES/CEZR <jacob.laird.4@spaceforce.mil>; HAGGERTY, JAMES P CIV 45 CES <james.haggerty.1@spaceforce.mil>
Subject: 103 - 30663521 - 103 INSTALL 170 AIR SPARGE WELLS FW: 30663325 332 INSTALL 170 AIR SPARGE WELLS RE: Launch Complex 34 AF 332 Submission for Hot Spot 6 IM Phase 3 Expansion

103 request requires approval

Scott Hermanson
CLOIS EDC / Work Management
RD120A
476-4357

HERMANSON, SCOTT D CTR USSF SSC CLOIS/ASRCC

From: LANGLEY, DOMINICA D CIV USSF SSC 45 SFS/S5
Sent: Monday, March 18, 2024 8:30 AM
To: Cape Canaveral CLOIS Work Management
Cc: HILL, NATALIE N CIV USSF SSC 45 SFS/S5SP
Subject: RE: 103 - 30663521 - 103 INSTALL 170 AIR SPARGE WELLS FW: 30663325 332 INSTALL 170 AIR SPARGE WELLS RE: Launch Complex 34 AF 332 Submission for Hot Spot 6 IM Phase 3 Expansion

SF concurs. Thanks, D.

From: Cape Canaveral CLOIS Work Management <workmgt@us.af.mil>
Sent: Friday, March 15, 2024 7:00 AM
To: GOSLIN, HEATHER R CIV USSF USSPACECOM 45 CES/CEIE <heather.goslin.1@usspacecom.mil>; AMOS, GARRY J JR CTR USSF SSC 45 CES/PatrickF2F <garry.amos.ctr@spaceforce.mil>; JANISE, TAYLOR M CIV USSF HQSF 45 CES/CEIE-C <taylor.janise.1@spaceforce.mil>; DIXON, FRANCES A CTR USSF SSC 45 CES/PatrickF2F <frances.dixon.1.ctr@spaceforce.mil>; BLAYLOCK, MICHAEL A CIV USSF HQSF 45 CES/CEIE <michael.blaylock.4@spaceforce.mil>; PATEN, JONTA L CTR USSF WSI 001/FEMS <jonta.paten.1.ctr@spaceforce.mil>; LORENZ, LOREN M CIV USSF AFMC AFCEC/CZO <loren.lorenz.1@spaceforce.mil>; LANGETT, JOHN M CIV USAF AFCEC AFCEC/CZOE <john.langett.1@us.af.mil>; LLOYD, JAMES B CIV USSF SSC AFCEC/CZO <james.lloyd.25@spaceforce.mil>; ELLIS, BRIAN K CIV USSF SSC AFCEC/CZOE <brian.ellis.13@spaceforce.mil>; HAGEN, SCOTT A CIV USSF SSC SLD 45/SEG <scott.hagen@spaceforce.mil>; POLLAN, WILLIAM A CIV USSF SSC SLD 45/SEAT <william.pollan.1@spaceforce.mil>; LANGLEY, DOMINICA D CIV USSF SSC 45 SFS/S5 <dominica.langley.1@spaceforce.mil>; HILL, NATALIE N CIV USSF SSC 45 SFS/S5SP <natalie.hill.3@spaceforce.mil>; BOATENG, FREDERICK CIV USSF SSC 45 CES/CENP <frederick.boateng@spaceforce.mil>; GEORGE, ELDRED M CIV USSF SSC 45 CES/CENPL <eldred.george.2@spaceforce.mil>; SALGUEIRO, VANESSA CIV USSF SSC 45 CES/CENPL <vanessa.salgueiro@spaceforce.mil>; CHRISTIANSEN, KARL T CIV USSF SSC 45 CES/CENPL <karl.christiansen@spaceforce.mil>; RODRIGUEZ, DIEGO CIV USSF SSC 45 CES/CENPL <diego.rodriguez.12@spaceforce.mil>; CHAMBERS, ANGY L CIV USSF SSC 45 CES/CEIE <angy.chambers@spaceforce.mil>; CARSON, MARTHA C CIV USSF SSC 45 CES/CEIE <martha.carson@spaceforce.mil>; CREIGHTON, EDWARD W III CTR USSF E-LTRS/COMM <edward.creighton.ctr@spaceforce.mil>; NICELY, MEGAN E CIV USSF SSC 45 CES/CEIE-C <megan.nicely.1@spaceforce.mil>; MANDEL, RACHEL N CIV USSF SSC 45 CES/CEIE <rachel.mandel.2@spaceforce.mil>; ROSSWICK, SHAWN M CTR USSF SSC CLOIS/ASRCC <shawn.rosswick.ctr@spaceforce.mil>
Cc: LAIRD, JACOB D CIV USSF SSC 45 CES/CEZR <jacob.laird.4@spaceforce.mil>; HAGGERTY, JAMES P CIV 45 CES <james.haggerty.1@spaceforce.mil>
Subject: 103 - 30663521 - 103 INSTALL 170 AIR SPARGE WELLS FW: 30663325 332 INSTALL 170 AIR SPARGE WELLS RE: Launch Complex 34 AF 332 Submission for Hot Spot 6 IM Phase 3 Expansion

103 request requires approval

Scott Hermanson
CLOIS EDC / Work Management
RD120A
476-4357

From: Jonnet, Mark <Mark.Jonnet@tetratech.com>
Sent: Friday, March 15, 2024 6:48 AM
To: Cape Canaveral CLOIS Work Management <workmgt@us.af.mil>

HERMANSON, SCOTT D CTR USSF SSC CLOIS/ASRCC

From: HAGEN, SCOTT A CIV USSF SSC SLD 45/SEG
Sent: Sunday, March 17, 2024 6:20 PM
To: Cape Canaveral CLOIS Work Management
Subject: RE: 103 - 30663521 - 103 INSTALL 170 AIR SPARGE WELLS FW: 30663325 332 INSTALL 170 AIR SPARGE WELLS RE: Launch Complex 34 AF 332 Submission for Hot Spot 6 IM Phase 3 Expansion

Categories: Scott

SLD 45 SEG No Concerns

From: Cape Canaveral CLOIS Work Management <workmgt@us.af.mil>
Sent: Friday, March 15, 2024 7:00 AM
To: GOSLIN, HEATHER R CIV USSF USSPACECOM 45 CES/CEIE <heather.goslin.1@usspacecom.mil>; AMOS, GARRY J JR CTR USSF SSC 45 CES/PatrickF2F <garry.amos.ctr@spaceforce.mil>; JANISE, TAYLOR M CIV USSF HQSF 45 CES/CEIE-C <taylor.janise.1@spaceforce.mil>; DIXON, FRANCES A CTR USSF SSC 45 CES/PatrickF2F <frances.dixon.1.ctr@spaceforce.mil>; BLAYLOCK, MICHAEL A CIV USSF HQSF 45 CES/CEIE <michael.blaylock.4@spaceforce.mil>; PATEN, JONTA L CTR USSF WSI 001/FEMS <jonta.paten.1.ctr@spaceforce.mil>; LORENZ, LOREN M CIV USSF AFMC AFCEC/CZO <loren.lorenz.1@spaceforce.mil>; LANGETT, JOHN M CIV USAF AFCEC AFCEC/CZOE <john.langett.1@us.af.mil>; LLOYD, JAMES B CIV USSF SSC AFCEC/CZO <james.lloyd.25@spaceforce.mil>; ELLIS, BRIAN K CIV USSF SSC AFCEC/CZOE <brian.ellis.13@spaceforce.mil>; HAGEN, SCOTT A CIV USSF SSC SLD 45/SEG <scott.hagen@spaceforce.mil>; POLLAN, WILLIAM A CIV USSF SSC SLD 45/SEAT <william.pollan.1@spaceforce.mil>; LANGLEY, DOMINICA D CIV USSF SSC 45 SFS/S5 <dominica.langley.1@spaceforce.mil>; HILL, NATALIE N CIV USSF SSC 45 SFS/S5SP <natalie.hill.3@spaceforce.mil>; BOATENG, FREDERICK CIV USSF SSC 45 CES/CENP <frederick.boateng@spaceforce.mil>; GEORGE, ELDRED M CIV USSF SSC 45 CES/CENPL <eldred.george.2@spaceforce.mil>; SALGUEIRO, VANESSA CIV USSF SSC 45 CES/CENPL <vanessa.salgueiro@spaceforce.mil>; CHRISTIANSEN, KARL T CIV USSF SSC 45 CES/CENPL <karl.christiansen@spaceforce.mil>; RODRIGUEZ, DIEGO CIV USSF SSC 45 CES/CENPL <diego.rodriguez.12@spaceforce.mil>; CHAMBERS, ANGY L CIV USSF SSC 45 CES/CEIE <angy.chambers@spaceforce.mil>; CARSON, MARTHA C CIV USSF SSC 45 CES/CEIE <martha.carson@spaceforce.mil>; CREIGHTON, EDWARD W III CTR USSF E-LTRS/COMM <edward.creighton.ctr@spaceforce.mil>; NICELY, MEGAN E CIV USSF SSC 45 CES/CEIE-C <megan.nicely.1@spaceforce.mil>; MANDEL, RACHEL N CIV USSF SSC 45 CES/CEIE <rachel.mandel.2@spaceforce.mil>; ROSSWICK, SHAWN M CTR USSF SSC CLOIS/ASRCC <shawn.rosswick.ctr@spaceforce.mil>
Cc: LAIRD, JACOB D CIV USSF SSC 45 CES/CEZR <jacob.laird.4@spaceforce.mil>; HAGGERTY, JAMES P CIV 45 CES <james.haggerty.1@spaceforce.mil>
Subject: 103 - 30663521 - 103 INSTALL 170 AIR SPARGE WELLS FW: 30663325 332 INSTALL 170 AIR SPARGE WELLS RE: Launch Complex 34 AF 332 Submission for Hot Spot 6 IM Phase 3 Expansion

103 request requires approval

Scott Hermanson
CLOIS EDC / Work Management
RD120A
476-4357

From: Jonnet, Mark <Mark.Jonnet@tetratech.com>
Sent: Friday, March 15, 2024 6:48 AM

HERMANSON, SCOTT D CTR USSF SSC CLOIS/ASRCC

From: NICELY, MEGAN E CIV USSF SSC 45 CES/CEIE-C
Sent: Monday, March 18, 2024 11:47 AM
To: Cape Canaveral CLOIS Work Management
Cc: CHAMBERS, ANGY L CIV USSF SSC 45 CES/CEIE; GOSLIN, HEATHER R CIV USSF USSPACECOM 45 CES/CEIE; CARSON, MARTHA C CIV USSF SSC 45 CES/CEIE
Subject: RE: 103 - 30663521 - 103 INSTALL 170 AIR SPARGE WELLS FW: 30663325 332 INSTALL 170 AIR SPARGE WELLS RE: Launch Complex 34 AF 332 Submission for Hot Spot 6 IM Phase 3 Expansion

Natural resource survey required. Please contact me at 386-316-0812 to schedule a survey.

v/r

Megan Nicely
NEPA Program Manager
45 CES/CEIE-C
WP: 321-853-6642 / CP: 386-316-0812

From: Cape Canaveral CLOIS Work Management <workmgt@us.af.mil>
Sent: Friday, March 15, 2024 7:00 AM
To: GOSLIN, HEATHER R CIV USSF USSPACECOM 45 CES/CEIE <heather.goslin.1@usspacecom.mil>; AMOS, GARRY J JR CTR USSF SSC 45 CES/PatrickF2F <garry.amos.ctr@spaceforce.mil>; JANISE, TAYLOR M CIV USSF HQSF 45 CES/CEIE-C <taylor.janise.1@spaceforce.mil>; DIXON, FRANCES A CTR USSF SSC 45 CES/PatrickF2F <frances.dixon.1.ctr@spaceforce.mil>; BLAYLOCK, MICHAEL A CIV USSF HQSF 45 CES/CEIE <michael.blaylock.4@spaceforce.mil>; PATEN, JONTA L CTR USSF WSI 001/FEMS <jonta.paten.1.ctr@spaceforce.mil>; LORENZ, LOREN M CIV USSF AFMC AFCEC/CZO <loren.lorenz.1@spaceforce.mil>; LANGETT, JOHN M CIV USAF AFCEC AFCEC/CZOE <john.langett.1@us.af.mil>; LLOYD, JAMES B CIV USSF SSC AFCEC/CZO <james.lloyd.25@spaceforce.mil>; ELLIS, BRIAN K CIV USSF SSC AFCEC/CZOE <brian.ellis.13@spaceforce.mil>; HAGEN, SCOTT A CIV USSF SSC SLD 45/SEG <scott.hagen@spaceforce.mil>; POLLAN, WILLIAM A CIV USSF SSC SLD 45/SEAT <william.pollan.1@spaceforce.mil>; LANGLEY, DOMINICA D CIV USSF SSC 45 SFS/S5 <dominica.langley.1@spaceforce.mil>; HILL, NATALIE N CIV USSF SSC 45 SFS/S5SP <natalie.hill.3@spaceforce.mil>; BOATENG, FREDERICK CIV USSF SSC 45 CES/CENP <frederick.boateng@spaceforce.mil>; GEORGE, ELDRED M CIV USSF SSC 45 CES/CENPL <eldred.george.2@spaceforce.mil>; SALGUEIRO, VANESSA CIV USSF SSC 45 CES/CENPL <vanessa.salgueiro@spaceforce.mil>; CHRISTIANSEN, KARL T CIV USSF SSC 45 CES/CENPL <karl.christiansen@spaceforce.mil>; RODRIGUEZ, DIEGO CIV USSF SSC 45 CES/CENPL <diego.rodriguez.12@spaceforce.mil>; CHAMBERS, ANGY L CIV USSF SSC 45 CES/CEIE <angy.chambers@spaceforce.mil>; CARSON, MARTHA C CIV USSF SSC 45 CES/CEIE <martha.carson@spaceforce.mil>; CREIGHTON, EDWARD W III CTR USSF E-LTRS/COMM <edward.creighton.ctr@spaceforce.mil>; NICELY, MEGAN E CIV USSF SSC 45 CES/CEIE-C <megan.nicely.1@spaceforce.mil>; MANDEL, RACHEL N CIV USSF SSC 45 CES/CEIE <rachel.mandel.2@spaceforce.mil>; ROSSWICK, SHAWN M CTR USSF SSC CLOIS/ASRCC <shawn.rosswick.ctr@spaceforce.mil>
Cc: LAIRD, JACOB D CIV USSF SSC 45 CES/CEZR <jacob.laird.4@spaceforce.mil>; HAGGERTY, JAMES P CIV 45 CES <james.haggerty.1@spaceforce.mil>
Subject: 103 - 30663521 - 103 INSTALL 170 AIR SPARGE WELLS FW: 30663325 332 INSTALL 170 AIR SPARGE WELLS RE: Launch Complex 34 AF 332 Submission for Hot Spot 6 IM Phase 3 Expansion

HERMANSON, SCOTT D CTR USSF SSC CLOIS/ASRCC

From: ELLIS, BRIAN K CIV USSF SSC AFCEC/CZOE
Sent: Monday, March 18, 2024 3:40 PM
To: Cape Canaveral CLOIS Work Management
Cc: LLOYD, JAMES B CIV USSF SSC AFCEC/CZO
Subject: RE: 103 - 30663521 - 103 INSTALL 170 AIR SPARGE WELLS FW: 30663325 332 INSTALL 170 AIR SPARGE WELLS RE: Launch Complex 34 AF 332 Submission for Hot Spot 6 IM Phase 3 Expansion

Scott- IRP concerns as follows: The proposed work impacts the SLC-34 groundwater plume. Work is being done under the oversight of KSC Environmental POC = Deda Johansen, edith.m.johansen@nasa.gov . Any further coordination or concerns should be routed through the above listed KSC POC.

From: Cape Canaveral CLOIS Work Management <workmgt@us.af.mil>
Sent: Friday, March 15, 2024 7:00 AM
To: GOSLIN, HEATHER R CIV USSF USSPACECOM 45 CES/CEIE <heather.goslin.1@usspacecom.mil>; AMOS, GARRY J JR CTR USSF SSC 45 CES/PatrickF2F <garry.amos.ctr@spaceforce.mil>; JANISE, TAYLOR M CIV USSF HQSF 45 CES/CEIE-C <taylor.janise.1@spaceforce.mil>; DIXON, FRANCES A CTR USSF SSC 45 CES/PatrickF2F <frances.dixon.1.ctr@spaceforce.mil>; BLAYLOCK, MICHAEL A CIV USSF HQSF 45 CES/CEIE <michael.blaylock.4@spaceforce.mil>; PATEN, JONTA L CTR USSF WSI 001/FEMS <jonta.paten.1.ctr@spaceforce.mil>; LORENZ, LOREN M CIV USSF AFMC AFCEC/CZO <loren.lorenz.1@spaceforce.mil>; LANGETT, JOHN M CIV USAF AFCEC AFCEC/CZOE <john.langett.1@us.af.mil>; LLOYD, JAMES B CIV USSF SSC AFCEC/CZO <james.lloyd.25@spaceforce.mil>; ELLIS, BRIAN K CIV USSF SSC AFCEC/CZOE <brian.ellis.13@spaceforce.mil>; HAGEN, SCOTT A CIV USSF SSC SLD 45/SEG <scott.hagen@spaceforce.mil>; POLLAN, WILLIAM A CIV USSF SSC SLD 45/SEAT <william.pollan.1@spaceforce.mil>; LANGLEY, DOMINICA D CIV USSF SSC 45 SFS/S5 <dominica.langley.1@spaceforce.mil>; HILL, NATALIE N CIV USSF SSC 45 SFS/S5SP <natalie.hill.3@spaceforce.mil>; BOATENG, FREDERICK CIV USSF SSC 45 CES/CENP <frederick.boateng@spaceforce.mil>; GEORGE, ELDRED M CIV USSF SSC 45 CES/CENPL <eldred.george.2@spaceforce.mil>; SALGUEIRO, VANESSA CIV USSF SSC 45 CES/CENPL <vanessa.salgueiro@spaceforce.mil>; CHRISTIANSEN, KARL T CIV USSF SSC 45 CES/CENPL <karl.christiansen@spaceforce.mil>; RODRIGUEZ, DIEGO CIV USSF SSC 45 CES/CENPL <diego.rodriguez.12@spaceforce.mil>; CHAMBERS, ANGY L CIV USSF SSC 45 CES/CEIE <angy.chambers@spaceforce.mil>; CARSON, MARTHA C CIV USSF SSC 45 CES/CEIE <martha.carson@spaceforce.mil>; CREIGHTON, EDWARD W III CTR USSF E-LTRS/COMM <edward.creighton.ctr@spaceforce.mil>; NICELY, MEGAN E CIV USSF SSC 45 CES/CEIE-C <megan.nicely.1@spaceforce.mil>; MANDEL, RACHEL N CIV USSF SSC 45 CES/CEIE <rachel.mandel.2@spaceforce.mil>; ROSSWICK, SHAWN M CTR USSF SSC CLOIS/ASRCC <shawn.rosswick.ctr@spaceforce.mil>
Cc: LAIRD, JACOB D CIV USSF SSC 45 CES/CEZR <jacob.laird.4@spaceforce.mil>; HAGGERTY, JAMES P CIV 45 CES <james.haggerty.1@spaceforce.mil>
Subject: 103 - 30663521 - 103 INSTALL 170 AIR SPARGE WELLS FW: 30663325 332 INSTALL 170 AIR SPARGE WELLS RE: Launch Complex 34 AF 332 Submission for Hot Spot 6 IM Phase 3 Expansion

103 request requires approval

Scott Hermanson
CLOIS EDC / Work Management
RD120A
476-4357

HERMANSON, SCOTT D CTR USSF SSC CLOIS/ASRCC

From: LAIRD, JACOB D CIV USSF SSC 45 CES/CEZR
Sent: Tuesday, March 19, 2024 8:12 AM
To: Cape Canaveral CLOIS Work Management
Subject: RE: 103 - 30663521 - 103 INSTALL 170 AIR SPARGE WELLS FW: 30663325 332 INSTALL 170 AIR SPARGE WELLS RE: Launch Complex 34 AF 332 Submission for Hot Spot 6 IM Phase 3 Expansion

No design review needed from CEZL.

Jacob Laird
Mechanical Engineer
45 CES/CEZL
Office: 321-853-7620
Cell: 904-400-4368

From: Cape Canaveral CLOIS Work Management <workmgt@us.af.mil>
Sent: Friday, March 15, 2024 7:00 AM
To: GOSLIN, HEATHER R CIV USSF USSPACECOM 45 CES/CEIE <heather.goslin.1@usspacecom.mil>; AMOS, GARRY J JR CTR USSF SSC 45 CES/PatrickF2F <garry.amos.ctr@spaceforce.mil>; JANISE, TAYLOR M CIV USSF HQSF 45 CES/CEIE-C <taylor.janise.1@spaceforce.mil>; DIXON, FRANCES A CTR USSF SSC 45 CES/PatrickF2F <frances.dixon.1.ctr@spaceforce.mil>; BLAYLOCK, MICHAEL A CIV USSF HQSF 45 CES/CEIE <michael.blaylock.4@spaceforce.mil>; PATEN, JONTA L CTR USSF WSI 001/FEMS <jonta.paten.1.ctr@spaceforce.mil>; LORENZ, LOREN M CIV USSF AFMC AFCEC/CZO <loren.lorenz.1@spaceforce.mil>; LANGETT, JOHN M CIV USAF AFCEC AFCEC/CZOE <john.langett.1@us.af.mil>; LLOYD, JAMES B CIV USSF SSC AFCEC/CZO <james.lloyd.25@spaceforce.mil>; ELLIS, BRIAN K CIV USSF SSC AFCEC/CZOE <brian.ellis.13@spaceforce.mil>; HAGEN, SCOTT A CIV USSF SSC SLD 45/SEG <scott.hagen@spaceforce.mil>; POLLAN, WILLIAM A CIV USSF SSC SLD 45/SEAT <william.pollan.1@spaceforce.mil>; LANGLEY, DOMINICA D CIV USSF SSC 45 SFS/S5 <dominica.langley.1@spaceforce.mil>; HILL, NATALIE N CIV USSF SSC 45 SFS/S5SP <natalie.hill.3@spaceforce.mil>; BOATENG, FREDERICK CIV USSF SSC 45 CES/CENP <frederick.boateng@spaceforce.mil>; GEORGE, ELDRED M CIV USSF SSC 45 CES/CENPL <eldred.george.2@spaceforce.mil>; SALGUEIRO, VANESSA CIV USSF SSC 45 CES/CENPL <vanessa.salgueiro@spaceforce.mil>; CHRISTIANSEN, KARL T CIV USSF SSC 45 CES/CENPL <karl.christiansen@spaceforce.mil>; RODRIGUEZ, DIEGO CIV USSF SSC 45 CES/CENPL <diego.rodriguez.12@spaceforce.mil>; CHAMBERS, ANGY L CIV USSF SSC 45 CES/CEIE <angy.chambers@spaceforce.mil>; CARSON, MARTHA C CIV USSF SSC 45 CES/CEIE <martha.carson@spaceforce.mil>; CREIGHTON, EDWARD W III CTR USSF E-LTRS/COMM <edward.creighton.ctr@spaceforce.mil>; NICELY, MEGAN E CIV USSF SSC 45 CES/CEIE-C <megan.nicely.1@spaceforce.mil>; MANDEL, RACHEL N CIV USSF SSC 45 CES/CEIE <rachel.mandel.2@spaceforce.mil>; ROSSWICK, SHAWN M CTR USSF SSC CLOIS/ASRCC <shawn.rosswick.ctr@spaceforce.mil>
Cc: LAIRD, JACOB D CIV USSF SSC 45 CES/CEZR <jacob.laird.4@spaceforce.mil>; HAGGERTY, JAMES P CIV 45 CES <james.haggerty.1@spaceforce.mil>
Subject: 103 - 30663521 - 103 INSTALL 170 AIR SPARGE WELLS FW: 30663325 332 INSTALL 170 AIR SPARGE WELLS RE: Launch Complex 34 AF 332 Submission for Hot Spot 6 IM Phase 3 Expansion

103 request requires approval

Scott Hermanson

HERMANSON, SCOTT D CTR USSF SSC CLOIS/ASRCC

From: GOSLIN, HEATHER R CIV USSF USSPACECOM 45 CES/CEIE
Sent: Thursday, March 21, 2024 3:38 PM
To: Cape Canaveral CLOIS Work Management; HERMANSON, SCOTT D CTR USSF SSC CLOIS/ASRCC
Cc: NICELY, MEGAN E CIV USSF SSC 45 CES/CEIE-C
Subject: RE: 103 - 30663521 - 103 INSTALL 170 AIR SPARGE WELLS FW: 30663325 332 INSTALL 170 AIR SPARGE WELLS RE: Launch Complex 34 AF 332 Submission for Hot Spot 6 IM Phase 3 Expansion

Environmental approves.

Heather

From: Cape Canaveral CLOIS Work Management <workmgt@us.af.mil>
Sent: Friday, March 15, 2024 7:00 AM
To: GOSLIN, HEATHER R CIV USSF USSPACECOM 45 CES/CEIE <heather.goslin.1@usspacecom.mil>; AMOS, GARRY J JR CTR USSF SSC 45 CES/PatrickF2F <garry.amos.ctr@spaceforce.mil>; JANISE, TAYLOR M CIV USSF HQSF 45 CES/CEIE-C <taylor.janise.1@spaceforce.mil>; DIXON, FRANCES A CTR USSF SSC 45 CES/PatrickF2F <frances.dixon.1.ctr@spaceforce.mil>; BLAYLOCK, MICHAEL A CIV USSF HQSF 45 CES/CEIE <michael.blaylock.4@spaceforce.mil>; PATEN, JONTA L CTR USSF WSI 001/FEMS <jonta.paten.1.ctr@spaceforce.mil>; LORENZ, LOREN M CIV USSF AFMC AFCEC/CZO <loren.lorenz.1@spaceforce.mil>; LANGETT, JOHN M CIV USAF AFCEC AFCEC/CZOE <john.langett.1@us.af.mil>; LLOYD, JAMES B CIV USSF SSC AFCEC/CZO <james.lloyd.25@spaceforce.mil>; ELLIS, BRIAN K CIV USSF SSC AFCEC/CZOE <brian.ellis.13@spaceforce.mil>; HAGEN, SCOTT A CIV USSF SSC SLD 45/SEG <scott.hagen@spaceforce.mil>; POLLAN, WILLIAM A CIV USSF SSC SLD 45/SEAT <william.pollan.1@spaceforce.mil>; LANGLEY, DOMINICA D CIV USSF SSC 45 SFS/S5 <dominica.langley.1@spaceforce.mil>; HILL, NATALIE N CIV USSF SSC 45 SFS/S5SP <natalie.hill.3@spaceforce.mil>; BOATENG, FREDERICK CIV USSF SSC 45 CES/CENP <frederick.boateng@spaceforce.mil>; GEORGE, ELDRED M CIV USSF SSC 45 CES/CENPL <eldred.george.2@spaceforce.mil>; SALGUEIRO, VANESSA CIV USSF SSC 45 CES/CENPL <vanessa.salgueiro@spaceforce.mil>; CHRISTIANSEN, KARL T CIV USSF SSC 45 CES/CENPL <karl.christiansen@spaceforce.mil>; RODRIGUEZ, DIEGO CIV USSF SSC 45 CES/CENPL <diego.rodriguez.12@spaceforce.mil>; CHAMBERS, ANGY L CIV USSF SSC 45 CES/CEIE <angy.chambers@spaceforce.mil>; CARSON, MARTHA C CIV USSF SSC 45 CES/CEIE <martha.carson@spaceforce.mil>; CREIGHTON, EDWARD W III CTR USSF E-LTRS/COMM <edward.creighton.ctr@spaceforce.mil>; NICELY, MEGAN E CIV USSF SSC 45 CES/CEIE-C <megan.nicely.1@spaceforce.mil>; MANDEL, RACHEL N CIV USSF SSC 45 CES/CEIE <rachel.mandel.2@spaceforce.mil>; ROSSWICK, SHAWN M CTR USSF SSC CLOIS/ASRCC <shawn.rosswick.ctr@spaceforce.mil>
Cc: LAIRD, JACOB D CIV USSF SSC 45 CES/CEZR <jacob.laird.4@spaceforce.mil>; HAGGERTY, JAMES P CIV 45 CES <james.haggerty.1@spaceforce.mil>
Subject: 103 - 30663521 - 103 INSTALL 170 AIR SPARGE WELLS FW: 30663325 332 INSTALL 170 AIR SPARGE WELLS RE: Launch Complex 34 AF 332 Submission for Hot Spot 6 IM Phase 3 Expansion

103 request requires approval

Scott Hermanson
CLOIS EDC / Work Management
RD120A
476-4357

5W0 103 2/28/2024

BASE CIVIL ENGINEER WORK REQUEST

(See Reverse for Instructions)

Form Approved
OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average .3 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to the Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project 0704-0188, Washington DC 20503. Please DO NOT RETURN your form to either of these addresses. Send your completed form to HQ AFESC/DEMG.

SECTION I - TO BE COMPLETED BY REQUESTER

1. FROM *(Organization)*	2. OFFICE SYMBOL	3. DATE OF REQUEST	4. WORK REQUEST NO. *(For BCE Use)*
Tetra Tech (Contractor)		02/28/2024	30663325

5. NAME AND PHONE NO. OF REQUESTER	6. REQUIRED COMPLETION DATE	7. BUILDING, FACILITY OR STREET ADDRESS WHERE WORK IS TO BE ACCOMPLISHED
Mark Jonnet (Tetra Tech), 412-921-8622	12/31/2024	Launch Complex 34

8. DESCRIPTION OF WORK TO BE ACCOMPLISHED *(Include Sketch or Plan, when appropriate)*

Install 170 air sparge wells (ASWs) in Area #1 and 22 ASWs in Area #2 to treat impacted groundwater associated with the Launch Complex 34 groundwater plume (see Figures 1, 2 and 3 attached). This will be an expansion of the existing Hot Spot 6 air sparging treatment system already in place, and will use the compressor trailer already installed at the site. The ASWs will be completed below grade (no well pads or stick-ups), and will be installed at sufficient distance away from historical features to avoid impact. Subsurface piping will connect the ASWs to the existing compressor trailer located under Van Shelter 22004. Trenching will be required to install subsurface piping, and will be routed to avoid impact to historical features. Two distribution trailers will be installed to support the ASWs. Additionally, a network of 12 new monitoring wells will be installed in the expansion areas (see Figure 3 attached) to monitor performance of the system. The new monitoring wells will be flush-mount with ground surface. Note, this area was included in the 2022 USFWS Biological Opinion.

9. BRIEF JUSTIFICATION FOR WORK TO BE ACCOMPLISHED *(Not required for maintenance and repair)*

Regulatory commitment for corrective action at Solid Waste Management Unit, which is being performed under the Kennedy Space Center (KSC) Resource Conservation and Recovery Act (RCRA) permit.

10. DONATED RESOURCES

KREMPJ00

☑ FUNDS	☐ LABOR	☐ MATERIAL	☐ CONTRACT BY REQUESTER	☐ NONE

11. NAME OF REQUESTER	12. GRADE OF REQUESTER	13. SIGNATURE OF REQUESTER *(See Reverse of Form)*
Edith Johansen, SI-E2	GS-13	Edith Johansen Digitally signed by Edith Johansen Date: 2024.02.28 11:17:32 -05'00'

14. COORDINATION

3/6/24

SECTION II - FOR BASE CIVIL ENGINEER USE

15. WORK ORDER *(Place an "X" in the appropriate box.)*

☐ IN-SERVICE	☐ SELF-HELP	☐ CONTRACT	☐ SABER

16. DIRECT SCHEDULED WORK *(Place an "X" in the appropriate box.)*

☐ EMERGENCY	☐ URGENT	☐ ROUTINE	☐ SELF-HELP	☐ M/C

17. SELF-HELP *(Place an "X" in the appropriate box.)*

☐ BRIEFING REQUIRED	☐ ADEQUATE COORDINATION	☐ INSPECTION REQUIRED

SECTION III - COMPLETE ONLY IF WORK IS TO BE ACCOMPLISHED BY WORK ORDER

18. WORK CLASS	19. PRIORITY	20. ESTIMATED HOURS	21. ESTIMATED FUNDED COST	22. ESTIMATED TOTAL COST

☐ 23. THERE IS NO NEED FOR AN ENVIRONMENTAL ASSESSMENT (AFR 19-2)	☐ 24. A WRITTEN ASSESSMENT IS BEING/HAS BEEN PROCESSED	☐ 25. APPROVED	☐ 26. DISAPPROVED

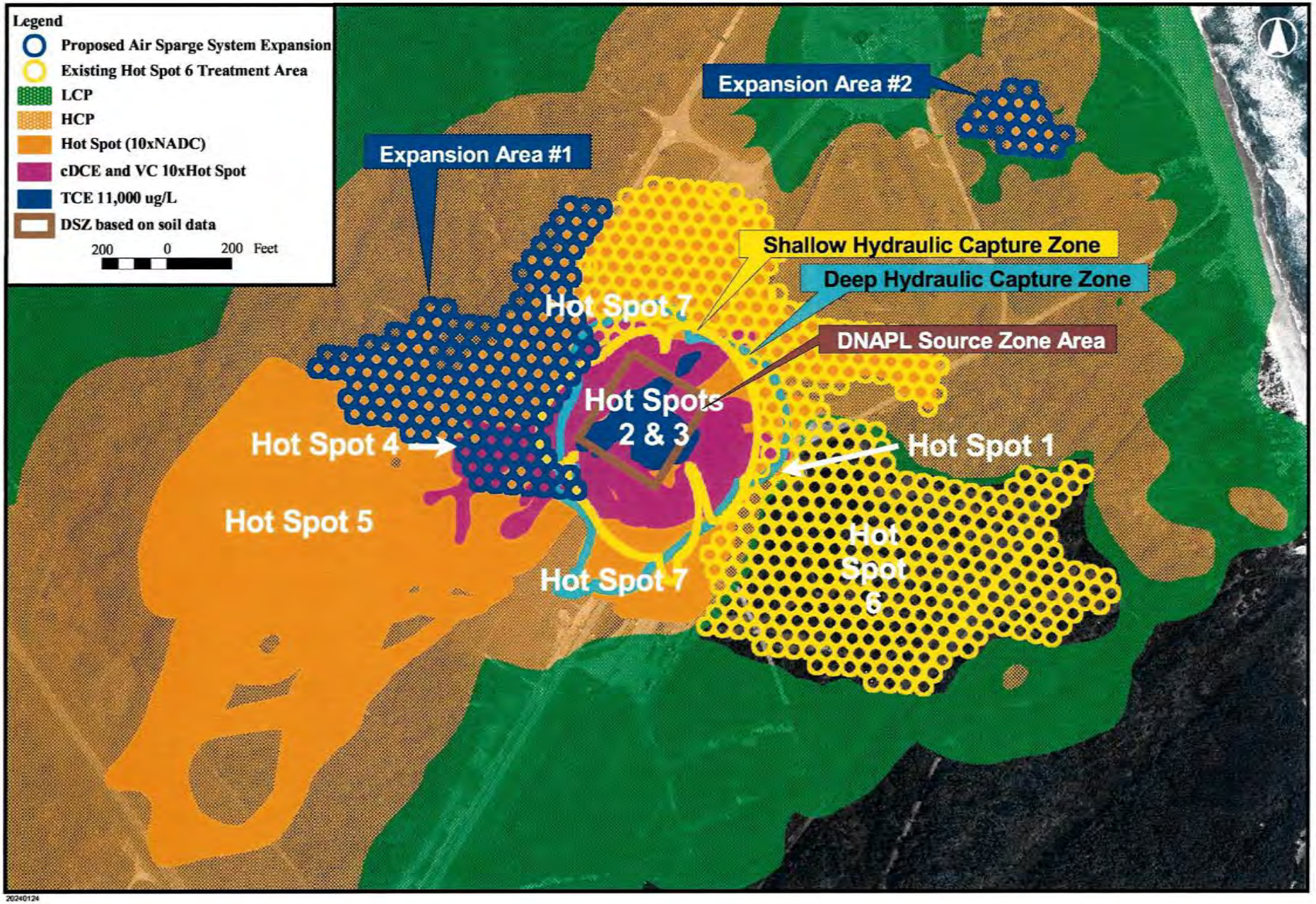
27. REMARKS

SECTION IV - APPROVING AUTHORITY

28. NAME AND GRADE *(Please Type or Print)*	29. SIGNATURE	30. DATE

CONFIGURED SYSTEMS
DOD APPROVED
NOT REQUIRED

FIGURE 1 HOT SPOT LOCATION MAP
SWMU CC054, LAUNCH COMPLEX 34, CAPE CANAVERAL SPACE FORCE STATION, FLORIDA



20240124

FIGURE 2 HOT SPOT 6 EXPANSION - PHASE THREE - TRENCHING LAYOUT
SWMU CC054, LAUNCH COMPLEX 34, CAPE CANAVERAL SPACE FORCE STATION, FLORIDA

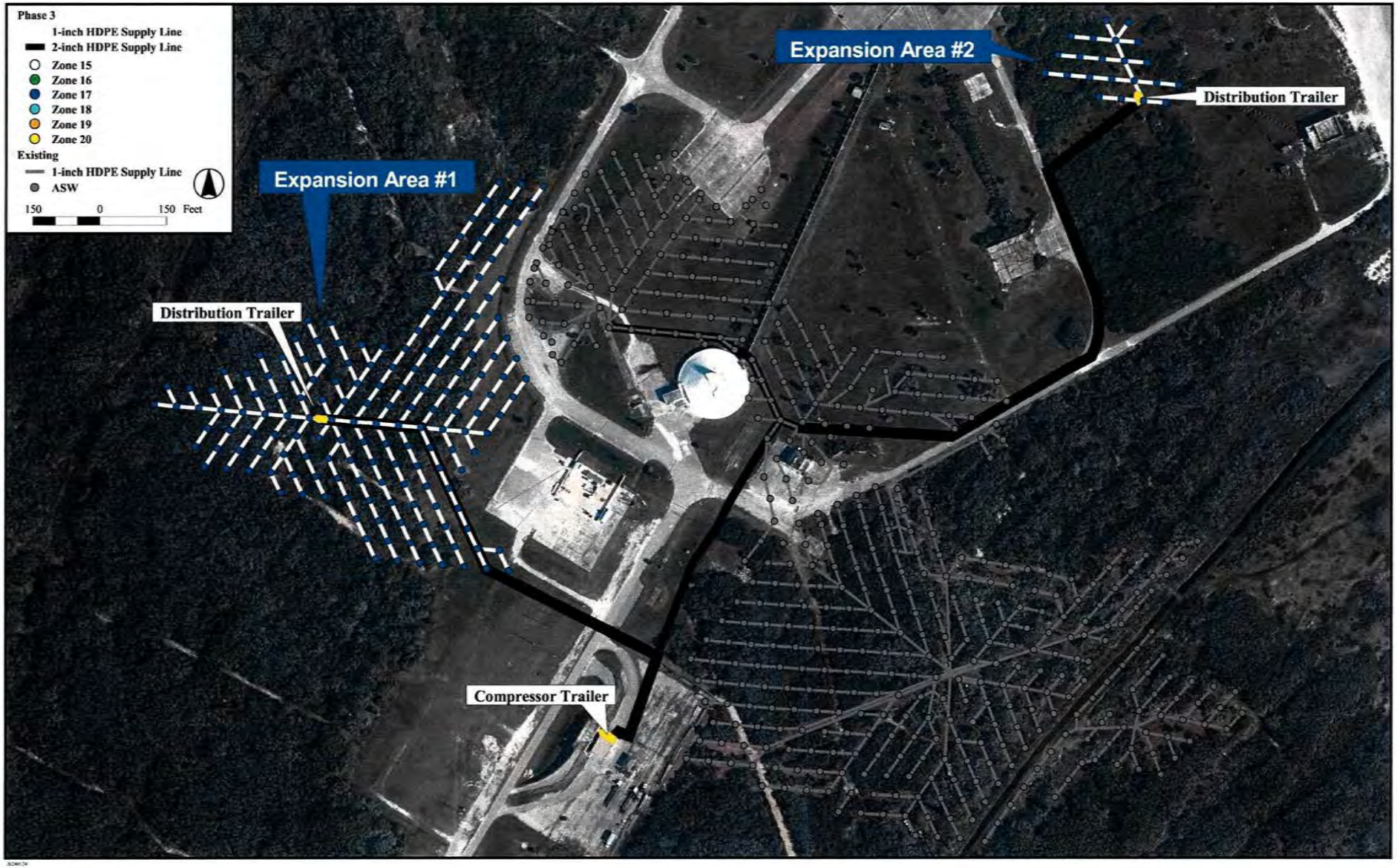
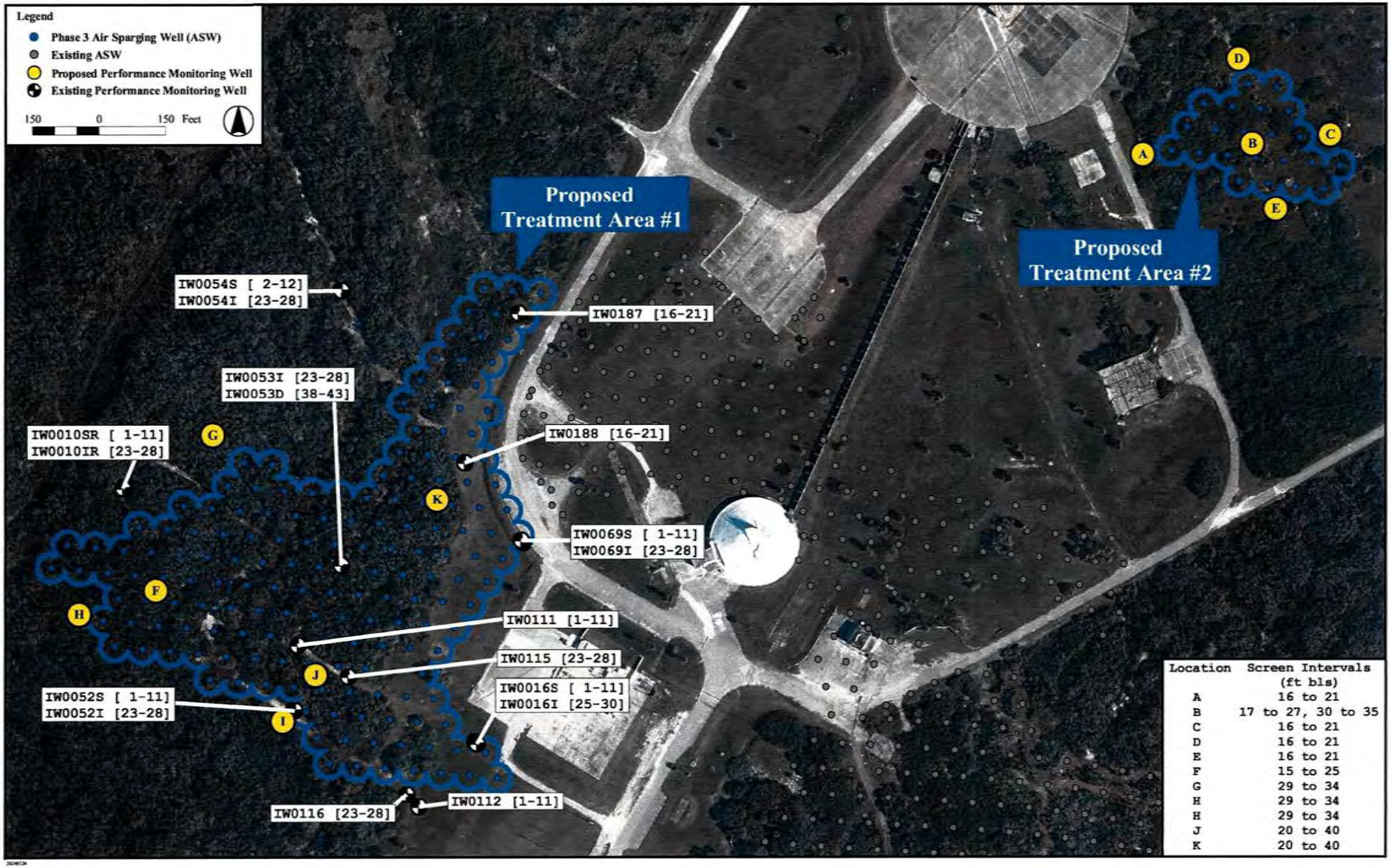


FIGURE 3 HOT SPOT 6 EXPANSION - PHASE THREE - PROPOSED PERFORMANCE MONITORING WELL LOCATION MAP
SWMU CC054, LAUNCH COMPLEX 34, CAPE CANAVERAL SPACE FORCE STATION, FLORIDA



Location	Screen Intervals (ft bls)
A	16 to 21
B	17 to 27, 30 to 35
C	16 to 21
D	16 to 21
E	16 to 21
F	15 to 25
G	29 to 34
H	29 to 34
H	29 to 34
J	20 to 40
K	20 to 40

3	TETRA TECH INSTALL 170 AIR SPARGE WELLS (ASWS) COORDINATION 30663325 *Please read and comply to all remarks made by reviewers written on 332, within this section and email direction attached to this package. 103 submissions and reviewer contact request can be sent to workmgt@us.af.mil Real Property, facility, Space Allocation requirements, 1354's etc., will need to be sent to 45CES.CLOIS.AssetManagement@us.af.mil	CX34	MARK JONNET	412-921-8622	2/28/2024	CE	COORDINATION 103
						FIRE	No issues
						SAFETY	SE Office: Concur, with no comments.
						SITING/SPACE ALLOC	No issues from CENPL.
						IRP	The proposed work impacts the SLC-34 groundwater plume. Work is being done under the oversight of KSC Environmental POC = Deda Johansen, edith.m.johansen@nasa.gov . Any further coodination or concerns should be routed through the above listed KSC POC.
						ENVIRO	CATEX A2.3.26. Requirements of the USFWS Biological Opinion for the site must be followed. No compliance concerns.
						SECURITY	No comments
						ENERGY	No comments.
						CLOIS REAL PROP	Submit DD1354 / NF 1046
						CLOIS ENVIRO	No comments.
						COMM	

Avoid Verbal Orders

TO: SI-E2/Deda Johansen **DATE: 03/21/2024**

FROM: SI-E3/Environmental Management Branch

SUBJECT: KSC Record of Environmental Consideration (REC) **REC #: 12761**

1. PROJECT INFORMATION

Project Title: Air Sparging Interim Measure Expansion at Launch Complex 34 (LC34)

Project Lead: Deda Johansen, SI-E2, 321-508-2289

Project No.: ENV 1634A_03-03-2021 (REV B)

Project Description:

03/18/2024 Update for third expansion: Install 170 air sparge wells (ASWs) in Area #1 and 22 ASWs in Area #2 to treat impacted groundwater associated with the Launch Complex 34 groundwater plume (see attached figures). This will be an expansion of the existing Hot Spot 6 air sparging treatment system already in place, and will use the compressor trailer already installed at the site. The ASWs will be completed below grade (no well pads or stick-ups), and will be installed at sufficient distance away from historical features to avoid impact. Subsurface piping will connect the ASWs to the existing compressor trailer located under Van Shelter 22004. Trenching will be required to install subsurface piping, and will be routed to avoid impact to historical features. Two distribution trailers will be installed to support the ASWs. Additionally, a network of 12 new monitoring wells will be installed in the expansion areas (see Figure 3 attached) to monitor performance of the system. The new monitoring wells will be flush-mount with ground surface. These areas are included in the 2022 USFWS Biological Opinion and in approved AF332 30663325

09/08/2022: Update for second expansion of the existing air sparge system.

Original Project Description: The purpose of the interim measure is to install 76 air sparge wells (ASWs) in an area northeast of the Blockhouse to treat contaminated groundwater at the Launch Complex 34 (LC34) site, located at Cape Canaveral Space Force Station. This will be an expansion of the existing Hot Spot 6 air sparging treatment system, and will use the compressor trailer already installed at the site (located under Van Shelter 22004). Subsurface piping will connect the ASWs to the existing compressor trailer. Trenching will be required to install subsurface piping, and will be routed to avoid impact to historical features. A distribution trailer will be installed to support the 76 ASWs. See Figure 1 for the location of the air sparge expansion and Figure 2 for the proposed layout of the expansion. The ASWs will be completed below grade (no well pads or stick-ups), and will be installed at sufficient distance away from historical features (i.e., Blockhouse, Communications wall) to avoid impact. Additionally, a network of 11 new monitoring wells will be installed in the expansion area (see Figure 3) to monitor performance of the system. The new monitoring wells will be flush-mount with ground surface. An underground compressed air line will also be installed from the existing compressor to the Hydraulic Capture System. The existing fence around the Hydraulic Capture System will be expanded to the east as shown on Figure 2.

Note: A NASA Site Plan has already been approved for this project (Site Plan #21-0007). A 332 has also been submitted (Work Request #30323192) and NASA is working with 45 CES/CEIE on environmental requirements. Based on discussions with NASA Cultural Resources, this project will be included in NASA's Annual Report to SHPO, which will cover Section 106 consultation requirements.

EPB Reviewer: LPH **Facility No.:** LC34, SWMU CC054

2. NEPA DETERMINATIONS

- ☑ **a. Categorical Exclusions per 14 CFR Part 1216.304(d)**
- ☐ **b. Environmental Assessment (EA) Required**
- ☐ **c. Environmental Impact Statement (EIS) Required**
- ☐ **d. Existing FONSI or ROD**
- ☐ **e. Centerwide EIS**
- ☐ **f. AF Project on KSC/813**
- ☑ **g. NASA Project on CCAFS/813**

3. ENVIRONMENTAL REQUIREMENTS

a. Non-Permit Requirements	☑ **YES**	☐ **NO**
b. Permit Requirements	☑ **YES**	☐ **NO**

Avoid Verbal Orders

TO: SI-E2/Deda Johansen **DATE: 03/21/2024**

FROM: SI-E3/Environmental Management Branch

SUBJECT: KSC Record of Environmental Consideration (REC) **REC #: 12761**

**********ORIGINAL REC 11319 ISSUED 03/05/2021**********
**********REC UPDATED 09/09/2022 Updated POC information, added BO statement**********
******REC 11953 UPDATED 03/21/2024 Updated POCs and concrete washout statement, added wetland BMPs*******

2.a.1. CATEGORICAL EXCLUSION (CATEX): This project is categorically excluded (CATEX) from further NEPA review as defined in 14 CFR 1216.304(d)(2)(i) Routine maintenance, minor construction or rehabilitation, minor demolition, minor modification, minor repair, and continuing or altered operations at, or of, existing NASA or NASA-funded or -approved facilities and equipment, such as buildings, roads, grounds, utilities, communication systems, and ground support systems, such as space tracking and data systems. For additional information, please contact James Brooks of the NASA Environmental Management Branch (SI-E3, 321-867-9081).

2.g.1. NASA PROJECT ON AF PROPERTY: This project is located on CCAFS property. Coordination with the 45th CES/CEIE is required prior to any construction activity at this facility. AF Form 813 must be completed for project review by the Air Force. Contact Taylor Janise (853-6638, 45 CES/CEIE) if clarification is required.
NOTE: A 332 has been submitted for this project and NASA is coordinating with 45 CES/CEIE.
03/21/2024 Update: AF332 30663325 has been approved.

3.a.1. SOLID WASTE MANAGEMENT UNIT (SWMU): This project includes work within the boundary of SWMU #C054, "Launch Complex 34". A SWMU designation means a site has had historical operations with the potential to impact the environment. This area is being investigated by the NASA Remediation Group under Remediation Project Manager (RPM) Deda Johansen (SI-E2, 321-508-2289) of the Environmental Assurance Branch. A Land Use Control Implementation Plan (LUCIP) has been prepared for the SWMU. These controls are necessary to prohibit residential exposure to groundwater present at the site.

All workers involved in subsurface/dewatering work must be notified (HAZCOM) of the potential for contamination present and it is recommended that an Industrial Hygienist be consulted for determination of required personal protective equipment (PPE). Handle potentially contaminated soils or groundwater in accordance with site work plan. Utilize PPE as required by Health and Safety Plan.

3.a.2. HAZARDOUS/NON-HAZARDOUS WASTE: All hazardous and non-hazardous wastes generated during the interim measure must be properly containerized, stored, labeled, manifested, shipped, and disposed of in full regulatory compliance. Hazardous wastes generated by this activity must be manifested, shipped, and disposed of under either the remediation contractor's or NASA's Environmental Protection Agency (EPA) identification number. The contractor shall maintain copies of waste management records and manifests onsite and make them available for review by NASA upon request. The onsite hazardous waste site environmental coordinator/point of contact shall have formal RCRA training and provide proof of training as identified in 40 CFR 262.17 and subpart M. Please contact NASA Environmental Assurance Branch at 861-0863 if assistance is required.

If wastes are managed, controlled and disposed of using the NASA EPA identification number, the KSC Waste Management requirements outlined in KNPR 8500.1 must be followed. A Process Waste Questionnaire (PWQ), KSC Form 26-551 along with any supporting documentation (SDS, product formulation, lab analyses) must be submitted to the NEMCON Waste Management Office for each waste stream generated. That office will then generate a Technical Response Package (TRP) which will give direction on proper handling, storage, and disposal of the waste stream. Please contact NEMCON Waste Management Services at 867-8642 if assistance is required.

The remediation contractor is responsible for any spills, releases, or other environmental contamination that occurs as a result of the proposed activities. A KSC Pollution Incident Report (PIR) Form (KSC Form 21-555) must be completed and submitted to the NASA Environmental Assurance Branch within three (3) calendar days of the incident.

Avoid Verbal Orders

TO: SI-E2/Deda Johansen **DATE: 03/21/2024**

FROM: SI-E3/Environmental Management Branch

SUBJECT: KSC Record of Environmental Consideration (REC) **REC #: 12761**

3.a.3. ARCHAEOLOGICAL: LC34 is part of the Cape Canaveral National Historic Landmark District (8Br216). Per Tom Penders, Space Force Cultural Resources Manager (CRM), the entire area has been surveyed and there are no issues for the project to proceed, however if any archaeological material (e.g., artifacts and/or cultural features or human remains) is found, work must stop immediately and the SLD 45 CRM is to be contacted at 321-307-0075 or at thomas.penders@spaceforce.mil. Materials and remains will need to be identified per NAGPRA (Native American Graves Protection and Repatriation Act). For more information please contact Katherine Zeringue (SI-E3) at 867-8454.

3.a.4. PROTECTED SPECIES: This project has the potential to affect the protected gopher tortoise. Measures must be taken to minimize impacts to their habitat. A biological survey will be required to identify potential impacts prior to disturbances. Please contact Russ Lowers (NEM-022, 321-759-6022) or Aleena Hess (NEM-022, 440-413-9439), 14 days prior to beginning work to schedule a biological survey. A biological survey of vegetated areas to be impacted will be required to identify potential impacts to habitat and wetlands prior to disturbances.

Update 09/09/2022: Abide by the Reasonable and Prudent Measures necessary to minimize incidental take as required by the Biological Opinion (BO) for the NASA Air Sparging System at Cape Canaveral Space Force Station, dated 06/22/2022 (FWS Log #04E1000-2021-F-1498 / 2022-0050398). Terms and Conditions as detailed in the BO must also be complied with in order to carry out the Reasonable and Prudent Measures.

3.a.5. CONCRETE WASHOUT: Water used to rinse out concrete trucks and other equipment used for concrete work must not be allowed to discharge to surface waters. Concrete washout water shall be diverted to a leakproof container for appropriate disposal.

Remove and dispose of hardened concrete waste consistent with your handling of other construction wastes. After drying/settling, the residue may be disposed of at the Diverted Aggregate Reclamation and Collection Yard (DARCY). Clean, unstained, unpainted concrete residue is accepted at the DARCY without any sampling and analysis. Contact Doug Durham (SI-E2, 867-8429) with any question on this requirement.

3.a.6. WETLANDS AND SURFACE WATER PROTECTION: Best management practices (BMPs) are to be implemented during the proposed activity. Care must be taken to avoid disturbance to wetlands or surface waters known to be on site. BMPs shall ensure no rutting, filling or other disturbances to the soils, or discharge of fill/sediments into surface waters. Wetland stabilization mats must be used as necessary to prevent rutting of the soil. When the work is complete, the wetlands shall retain similar function and value as before the survey line clearing. Every effort should be made to perform work in wetland areas during dry periods. If BMPs are not sufficient to eliminate permanent impacts to wetlands and/or surface waters, permits will be required.

3.b.1. EXCAVATION PERMIT: A KSC Excavation Permit will be required for any digging proposed by this project. Please contact the Utility Locate/Excavation Permit Request Customer Helpline at 867-2406 or go to website at http://epr.ksc.nasa.gov/Home/ for an underground utility scan and dig permit. NOTE: If a trench or pit is to be left open all day or overnight, the trench/pit must be checked for trapped animals at the beginning and end of each work shift. If an animal is observed trapped, contact Russ Lowers (NEM-022, 321-759-6022) or the Duty Office (861-5050, email KSC-BOSS-DutyOffice@mail.nasa.gov) to arrange removal/release. Do not handle the animal(s).

3.b.2. AIR EMISSIONS: NASA/KSC has Remedial Activities listed on the Title V Air Permit as an insignificant activity. The proposed groundwater remediation system would be considered insignificant if the Remediation system/unit/activity would not emit or have the potential to emit (PTE):

a. 500 pounds per year or more of lead and lead components expressed as lead;
b. 1,000 pounds per year or more of any hazardous air pollutant;
c. 2,500 pounds per year or more of total hazardous air pollutants; or
d. 5.0 tons per year or more of any other regulated pollutant, Per Rule 62-213.430(6), F.A.C.

If the above criteria cannot be met, a construction permit would be required. Contact the Environmental Assurance Branch (Zach Hall, SI-E2, 867-5178) if you have any questions.

Avoid Verbal Orders

TO: SI-E2/Deda Johansen **DATE: 03/21/2024**
FROM: SI-E3/Environmental Management Branch
SUBJECT: KSC Record of Environmental Consideration (REC) **REC #: 12761**

3.b.3. DEWATERING: Construction dewatering is exempted from permitting under conditions of Rule 40C-2.051 (7) providing the conditions of exemption are met including: limiting withdrawal methods, limiting withdrawal to less than 300,000 gpd and limiting withdrawal to 30 days. Additional limitations are placed on discharge of produced water to prevent harm to the environment. If conditions of the exemption cannot be met, a construction dewatering general permit is required from SJRWMD using Form 40C-2.900(12). No dewatering may begin until 10 days after submittal of the complete form. If the dewatering activity does not qualify for a general permit by rule under Rule 40C-2.042(9), F.A.C., you must complete and submit a SJRWMD application for an individual Consumptive Use Permit pursuant to Rule 40C-2.041, F.A.C. Approval of the application must be obtained before starting the dewatering activity. If produced water discharge will reach surface waters, an FDEP permit may be required under Rule 62-621.300-2. Contact Doug Durham (SI-E2, 867-8429) with questions related to these requirements.

3.b.4. FDEP NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) CONSTRUCTION ACTIVITY PERMIT: This project may require an NPDES Phase II construction permit. If 1 acre or more of land will be disturbed, a NPDES Construction Activity Permit from the Florida Department of Environmental Protection (FDEP) is required under F.A.C. 62-621.300(4), Notice of Intent to Use Generic Permit for Stormwater Discharge from Large (If over 5 Acres) and Small (1 Acre To 5 Acres) Construction Activities http://www.dep.state.fl.us/water/stormwater/npdes/forms/cgp_noi.pdf. This includes construction activity which will disturb less than one acre of land area that is part of a larger common plan of development that will ultimately disturb equal to or greater than one acre of land. Construction activity does not include routine maintenance that is performed to maintain the original line and grade, hydraulic capacity, or original purpose of the site. A condition of this permit is to provide a Stormwater Pollution Prevention Plan (SWPPP) detailing erosion and turbidity controls for the site. Information on completing the permit application and development of the SWPPP can be obtained by contacting Doug Durham (SI-E2, 867-8429).

3.b.5. WATER WELL: Installation or abandonment of a water well requires use of a licensed contractor, a KSC dig permit, and registration of the well with St. Johns River Water Management District (SJRWMD). Dependent on water use, wells may require a Florida Department of Health (FDOH) operating permit. Contact Doug Durham (SI-E2, 867-8429) for details.

No other environmental issues were identified based upon the information provided in the KSC Environmental Checklist. This Record of Environmental Consideration (REC) does not relinquish the project lead from obtaining and complying with any other internal NASA permits or directives necessary to ensure all organizations potentially impacted by this project are notified and concur with the proposed project.

Due to potential changes in regulations, permit requirements and environmental conditions, statements in this REC are valid for 6 months, and subject to review after this period. It is the responsibility of the project lead to submit current project information for a REC update prior to project commencement if REC is older than 6 months; and also to notify the Environmental Management Branch (SI-E3) if the scope of the project changes at any time after the REC is issued.

D. Johansen/SI-E2
cc:
M. Jonnet/Tetra Tech
K. Zeringue/SI-E3
T. Janise/45 CES/CEIE
M. Nicely/45 CES/CEIE
Z. Hall/SI-E2
D. Durham/SI-E2
S. Legare/NEM-022
G. Carter/NEM-022
R. Lowers/NEM-022
T. Penders/45 CES/CEIE

Avoid Verbal Orders

TO: SI-E2/Deda Johansen **DATE: 03/21/2024**

FROM: SI-E3/Environmental Management Branch

SUBJECT: KSC Record of Environmental Consideration (REC) **REC #: 12761**

4. Upon evaluation of the subject project, the above determinations have been made and identified. Contact the Environmental Management Branch (SI-E3) at 861-1196 for re-evaluation should there be any modifications to the scope of work.



03/21/2024 14:25

James Brooks **Date**

APPENDIX G

STORMWATER POLLUTION PREVENTION PLAN

LAUNCH COMPLEX 34, SWMU CC054
HOT SPOT AREA 6 EXPANSION – PHASE THREE
STORMWATER POLLUTION PREVENTION PLAN
CAPE CANAVERAL SPACE FORCE STATION, FLORIDA

Prepared for:



National Aeronautics and Space Administration
Kennedy Space Center, Florida

April 2024
Revision 0

Prepared by:

Tetra Tech, Inc.
661 Andersen Drive
Pittsburgh, PA 15220
(412) 921-7090

LAUNCH COMPLEX 34, SWMU CC054
HOT SPOT AREA 6 EXPANSION – PHASE THREE
STORMWATER POLLUTION PREVENTION PLAN
CAPE CANAVERAL SPACE FORCE STATION, FLORIDA

Revision 0

Prepared for:
Environmental Assurance Branch
National Aeronautics and Space Administration
John F. Kennedy Space Center
Kennedy Space Center, Florida 32899

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Tetra Tech, Inc.
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Pittsburgh, PA 15220
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Prepared by: Andrew M Walters
Andrew Walters, P.E.
Tetra Tech, Inc.

Approved by: Mark P Speranza
Mark P. Speranza, P.E.
Tetra Tech, Inc.

April 2024

PROFESSIONAL ENGINEER CERTIFICATION

This Stormwater Pollution Prevention Plan for Hot Spot Area 6 Expansion – Phase Three at Launch Complex 34, Solid Waste Management Unit CC054, at Cape Canaveral Space Force Station, Florida, dated April 2024, has been prepared by or under the responsible supervision, direction, or control of the Florida-licensed professional engineer whose signature and seal appear below.



Mark P. Speranza, P.E.
Florida P.E. License No. 50304
Engineering Business License Number 2429

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ACRONYMS AND ABBREVIATIONS

AS	Air Sparging
BMP	Best Management Practice
CCSFS	Cape Canaveral Space Force Station
DNAPL	Dense Non-Aqueous Phase Liquid
DSZ	DNAPL Source Zone
EPA	United States Environmental Protection Agency
ESB	Engineering Support Building
FDEP	Florida Department of Environmental Protection
GCTL	Groundwater Cleanup Target Level
HS	Hot Spot
IDIQ	Indefinite Delivery Indefinite Quantity
IM	Interim Measure
IWP	Implementation Work Plan
KSC	Kennedy Space Center
LC34	Launch Complex 34
NADC	Natural Attenuation Default Concentration
NASA	National Aeronautics and Space Administration
PVC	Polyvinyl Chloride
RCRA	Resource Conservation and Recovery Act
RPM	Remediation Project Manager
SDS	Safety Data Sheet
SWMU	Solid Waste Management Unit
SWPPP	Stormwater Pollution Prevention Plan
TCE	Trichloroethene

SECTION I
INTRODUCTION

This Stormwater Pollution Prevention Plan (SWPPP) was prepared by Tetra Tech, Inc., for the National Aeronautics and Space Administration (NASA) under Indefinite Delivery Indefinite Quantity (IDIQ) Contract 80KSC019D0011-80KSC019F0067. Under this contract, Tetra Tech is implementing an Air Sparging (AS) Interim Measure (IM) to remediate contaminated groundwater at Hot Spot (HS) Area 6 at Launch Complex 34 (LC34), Cape Canaveral Space Force Station (CCSFS), Florida. This SWPPP was prepared in accordance with the United States Environmental Protection Agency (EPA) Developing Your Stormwater Pollution Prevention Plan: A Guide for Construction Sites summary guidance published in 2007. LC34 has been designated as Solid Waste Management Unit (SWMU) CC054 under the Kennedy Space Center (KSC) Resource Conservation and Recovery Act (RCRA) Corrective Action Program.

1.1 SITE HISTORY

LC34 is located in Section 6, Township 23 South, and Range 38 East in the False Cape Quadrangle. The facility is located on CCSFS (renamed from Cape Canaveral Air Force Station in December 2020) and is bordered by Launch Complex 37 to the north, Launch Complex 20 to the south, by ICBM Road (Samuel Phillips Parkway) to the west, and by the Atlantic Ocean to the east. The location and site map of LC34 within CCSFS are shown on Figures A-1 and A-2, respectively, provided in Appendix A of this SWPPP. The launch pad and associated facilities at LC34 were built in the late 1950s and used by NASA's Apollo Space Program for the launching of Saturn rockets from 1960 to 1968. Historical information suggests that rocket engines and other parts were cleaned at the site using solvent degreasers, most notably trichloroethene (TCE). It is speculated that releases of solvents occurred during cleaning operations through both intentional and unintentional discharges to nearby areas. Based on groundwater sampling data, these releases occurred primarily in the immediate vicinity of the former Engineering Support Building (ESB) located southwest of the Blockhouse. Following shutdown of the launch pad in 1968, LC34 has remained largely inactive, although several site features (e.g., Blockhouse, camera pad, etc.) are still present.

Most operational equipment (service towers, fuel storage tanks, piping, etc.) has been dismantled, and the majority of the on-site buildings and structures were abandoned-in-place. Native and invasive vegetation has overgrown much of the site, and dense wooded areas currently surround the site. For additional site information, refer to the LC34 HS 6 Expansion – Phase Three Implementation Work Plan (IWP).

1.2 PROJECT DESCRIPTION

This IM project (LC34 HS 6 Expansion – Phase Three) includes the installation an additional 192 AS wells, and associated piping and infrastructure, in areas west and north of the current HS 6 AS treatment area. This is the third phase of expansion for the HS 6 AS IM; the initial IM was completed in 2018 (160 AS wells), the first phase of expansion was completed in 2019 (additional 140 AS wells), and second expansion was completed in 2023 (additional 190 AS wells). The IM objective for this project is to remediate contaminated groundwater within the treatment zones (approximately 9.4 acres in the phase three expansion areas) to support transition to long-term monitoring. The construction area for this project, where land disturbance will occur (i.e., trenching) covers approximately 1.3 acres. The IM objective was developed to provide a flexible treatment train approach where certain metrics such as remedial performance, plume dynamics, and natural attenuation characteristics can be evaluated to determine whether the remedial objective has been met and ultimately an endpoint to the IM. The overall Corrective Action Objective for HS 6 is to reduce concentrations of contaminants of concern (cis-1,2-dichloroethene and vinyl chloride) from greater than 10-times Florida Department of Environmental Protection (FDEP) Natural Attenuation Default Concentrations (NADCs) to less than NADCs via AS. The overall Corrective Action Objective for the LC34 groundwater plume, as a whole, is to reduce concentrations of all groundwater contaminants to below Groundwater Cleanup Target Levels (GCTLs). Based on the treatment performance of the IM, AS operations may be modified, as appropriate, to achieve the IM objective. The AS wells and conveyance piping for the proposed AS system is shown on Figure A-2.

1.3 REPORT OBJECTIVE AND CONTENT

The objectives of this report are to describe the project and to present the stormwater pollution prevention measures that will be used during implementation of the IM for the LC34 HS 6 expansion (phase three).

Section 2.0 presents a description of control measures to be implemented during the IM and the sequence of proposed construction activities. Section 3.0 presents state and local documents referenced for stormwater management. Section 4.0 presents the inspection and maintenance program proposed for IM construction efforts. Section 5.0 presents a summary of non-stormwater discharges and pollution prevention measures to be employed during the IM. Sections 6.0 and 7.0 present the required plan certifications. Copies of the EPA SWPPP checklists are presented in Appendix B, and an inspection report form is provided in Appendix C. Completed weekly inspection report forms will also be included in Appendix C, as they are completed. Appendix D provides a location to post any revisions or additions to this SWPPP.

SECTION II
DESCRIPTION OF CONTROLS

This section presents a description of stormwater controls, including erosion and sediment controls proposed for the IM. Copies of the completed EPA Preconstruction Checklist and the Construction/Implementation Checklist are provided in Appendix B. Requirements specified in these checklists are incorporated into this SWPPP. Any modifications to the proposed erosion and sediment control devices, maintenance schedules, construction sequence, and spill prevention plans presented in this SWPPP must be provided in Appendix D.

2.1 EXISTING SITE CONDITIONS

LC34 is located on CCSFS and is bordered by Launch Complex 37 to the north, by Launch Complex 20 to the south, by ICBM Road (Samuel Phillips Parkway) to the west, and by the Atlantic Ocean to the east. Prior to development, LC34 consisted of relict sand dunes and interdunal swales typical of barrier island depositional environments. Native and invasive vegetation has overgrown much of the site, and dense wooded areas currently surround the site. A portion of the project will be implemented in a grassy field, with few trees that will be maintained to the best extent possible, and a portion of the project extends into the dense wooded area, which will be cleared, as needed. A project area map is provided as Figure A-2.

HS 6 is designated as the area located east and northeast (downgradient) of the LC34 dense non-aqueous phase liquid (DNAPL) source zone (DSZ). However, the phase three expansion of the HS 6 IM extends to areas west of the DSZ and southeast of the launch pad as shown on Figure A-2. A drainage ditch is located east of the HS 6 phase three expansion area along Perimeter Road (Area #1, the larger of the two expansion areas shown on Figure A-2). There are two stormwater culverts along the header trench path to the northeast expansion area by the launch pad (Area #2, the smaller of the two expansion areas shown on Figure A-2), which run underneath Perimeter Road and the adjacent roadway. The topography in the project areas show little relief. Precipitation infiltrates into surface soils or runs off towards the proposed trench areas. Control measures are discussed in the following section.

2.2 EROSION AND SEDIMENT CONTROL MEASURES

Erosion and sediment control measures will be implemented and maintained according to the standards and specifications of the Florida Stormwater Erosion and Sedimentation Control Inspector's Manual, dated October 2018, unless otherwise noted in this SWPPP and/or the LC34 HS 6 Expansion – Phase Three IWP.

The required erosion and sediment control measures are shown on Figure A-3 prior to any earth disturbance. Filter socks will be used to filter stormwater runoff from graded areas and to prevent the migration of sediment prior to establishing permanent stabilization. Additionally, soil spoils will be placed upgradient of the trench as much as possible to minimize sediment transport to drainage swales.

2.2.1 STRUCTURAL PRACTICES. The following describes the types of erosion and sediment control best management practices (BMPs) proposed to prevent sediments (contaminated or uncontaminated) from being transported beyond the limits of disturbance. The references presented along with the erosion and sediment control BMPs below refer to the Florida Stormwater Erosion and Sedimentation Control Inspector's Manual. Installation of the erosion and sediment control devices will be overseen by a certified person that has completed the Florida stormwater erosion and sedimentation control inspector training program.

Filter Socks: A filter sock is a temporary sediment barrier and stormwater runoff filtration device consisting of a three-dimensional, tubular, sediment control filled with biodegradable material placed on the ground and attached to supporting posts. The purpose of a filter sock is to intercept and detain small amounts of sediment from disturbed areas during construction operations and to decrease the velocity of sheet flows and low- to moderate-level channel flows. The filter socks will be placed where indicated on Figure A-3 (Appendix A). Figure A-4 presents construction details for the filter sock.

Temporary Seeding: Temporary seeding is the establishment of a temporary vegetative cover on disturbed areas by seeding with appropriate rapidly growing annual plants. The purpose of

temporary seeding is to reduce erosion and sedimentation by stabilizing disturbed areas that will not be brought to final grade for 30 days or more and to reduce problems associated with mud and dust production from bare soil surfaces during construction. Temporary seeding will be used when required within the limits of disturbance when dictated by the construction sequence.

Permanent Seeding: Permanent seeding is the establishment of perennial vegetative cover on disturbed areas by planting seed. The purpose of permanent seeding is to reduce erosion and to decrease sediment yield from disturbed areas. Additionally, permanent seeding permanently stabilizes disturbed areas in a manner that is economical, adaptable to site conditions, and allows selection of the most appropriate plant material. Permanent seeding and/or sod will be used within the limits of disturbance in all earthen areas.

2.2.2 MANAGEMENT STRATEGIES. The following is a list of erosion and sediment control management strategies that will be followed during implementation of the IM expansion (phase three):

1) Unstable and/or disturbed areas will be minimized, and construction activities will be staged.

2) Seeding or other stabilization measures will follow immediately after backfilling.

3) Areas that will be disturbed will be clearly marked by flags, signs, etc.

4) The Tetra Tech Construction Supervisor will be responsible for ensuring the installation and maintenance of all erosion and sediment control devices.

5) Erosion and sediment control devices will be installed and/or constructed before the start of any earth-disturbance activities.

6) Erosion and sediment control devices will remain in place until permanent stabilization is established over the disturbed surfaces.

2.3 SEQUENCE OF CONSTRUCTION

The time required to perform the proposed construction activities for this IM is estimated to be approximately 6 months. The generalized sequence of construction activities is as follows:

1. Hold a pre-construction meeting.

2. Inspect the site prior to construction to verify existing site conditions, wetlands, ecological impacts, and underground utility locations.

3. Construct project support facilities, as required.

4. Prepare the areas for IM construction activities and establish horizontal and vertical control for construction. Stake the locations of areas to be disturbed prior to actual work.

5. Conduct vegetation site clearing activities, as necessary.

6. Install erosion and sediment controls for excavation areas. The controls to be installed include but may not be limited to filter socks. Additional controls may be warranted by site conditions and best construction practices.

7. Mow areas previously cleared of trees and shrubbery, as necessary, within IM project areas.

8. Following installation of AS components, restore IM project areas by backfilling to re-establish existing grades using off-site borrow soil. Following the backfilling of all excavation areas, use the appropriate seed mixtures to stabilize disturbed areas brought to final grades.

9. When all areas have been stabilized and have been accepted by the NASA Remediation Project Manager (RPM), remove all remaining perimeter controls.

2.4 PERMANENT STABILIZATION

All areas disturbed by construction activities associated with this IM will be restored/stabilized using permanent stabilization practices. Permanent stabilization seeding will be performed as soon as possible following backfilling of trenches but no later than 30 days following final grading. If permanent stabilization is not achievable prior to 30 days after final grading, temporary seeding will be implemented.

A permanent seed mixture, fertilizer, and mulch will be applied after disturbed areas are backfilled and graded. The seed will consist of a mixture of permanent grasses (i.e., Bermuda and Pensacola Bahia) and quick-growing grasses. The quick-growing grasses to be used will be dependent on the seeding season, with annual rye to be used during winter months and millet to be used during summer months. The seed, fertilizer, and mulch will be applied in accordance with Florida Department of Transportation specifications. If areas are brought to final grades and permanent seeding is not scheduled within 30 days, the area will be seeded using an appropriate temporary seed mixture from Table 1.65a of the Florida Development Manual. Six weeks after demobilization, the restored areas will be inspected and reseeded or sodded as necessary.

2.5 STORMWATER RUNOFF CONSIDERATIONS

The intent of the IM is to install an AS system. Surface conditions following IM activities will be the same as conditions prior to IM activities, to the fullest extent. Under these circumstances, the volume of post-construction runoff is expected to be the same as pre-construction runoff. Therefore, no pre- or post-construction runoff calculations have been prepared for this IM. No permanent stormwater runoff control structures are proposed for this IM.

SECTION III
STATE AND LOCAL REQUIREMENTS

This plan was prepared in accordance with the EPA Developing Your Stormwater Pollution Prevention Plan: A Guide for Construction Sites summary guidance (May 2007) and in part with the erosion and sediment control program requirements specified in the Florida Stormwater Erosion and Sedimentation Control Inspector's Manual (October 2018).

SECTION IV
INSPECTION AND MAINTENANCE PROCEDURES

In general, all erosion and sediment control measures will be checked weekly and after each storm event producing ½ inch or more of rainfall until site restoration activities are completed and stabilized. Each inspection will be recorded on an inspection report form, provided as Appendix C. Any required repairs will be made immediately. The following items will be checked during each weekly inspection:

- The filter socks will be checked for undermining or deterioration of the filter sock material and its structural integrity. Sediment will be removed when the level of sediment deposition reaches one-half of the filter sock height.

- The seeded areas will be checked to ensure that an adequate stand of grass is maintained, and areas will be fertilized and reseeded as needed. Vegetation areas will be maintained until formal acceptance by the NASA RPM.

SECTION V
NON-STORMWATER DISCHARGES AND POLLUTION PREVENTION

This section presents a description of non-stormwater discharges and pollution prevention measures that will be employed during the IM.

5.1 NON-STORMWATER DISCHARGES

The non-stormwater discharges anticipated during construction activities will be water resulting from decontamination efforts associated with field equipment and vehicle wash waters. All decontamination water will be collected in a temporary, heavy-duty, double-lined, curbed, decontamination pad capable of containing decontamination fluids, pumped to drums, characterized, and properly disposed of off-site.

5.2 POLLUTION PREVENTION MEASURES

The following is a list of materials or substances that are anticipated to be stored on site during the IM:

- Detergents for decontamination efforts;
- Gasoline and other vehicle maintenance substances;
- Small quantities of laboratory chemicals, polyvinyl chloride (PVC) glue, primer, paint, and other flammable substances;
- Contaminated groundwater extracted during site sampling activities; and
- Untreated compressed air condensate in conveyance headers and lateral lines.

These materials, when not in use, will be stored in a centralized staging area. Practices that will be followed to reduce risks associated with these materials include the following:

- Products will be kept in original containers unless they are not resealable.
- Original labels and Safety Data Sheets (SDSs) will be retained on site.

- If surplus product must be disposed of, manufacturer or local and state recommended methods for proper disposal will be followed.

The following paragraphs describe specific spill prevention and material management practices that will be employed during the IM.

GOOD HOUSEKEEPING

The following are the material management practices that will be used to reduce the risk of spills or other accidental exposure of materials and substances to stormwater runoff:

- An effort will be made to store only enough products required to accomplish each active task.
- All materials stored on site will be stored in a neat orderly manner in their appropriate containers and, if possible, under a roof or other enclosure.
- Products will be kept in their original containers with the manufacturer's original label, unless they are not resealable.
- Substances will not be mixed with one another unless recommended by the manufacturer.
- Whenever possible, all of a product will be used before the container is disposed of.
- Manufacturers' recommendations for proper use and disposal will be followed.
- Storage and use areas will be inspected daily to ensure proper use and disposal of materials on site.

SPILL CONTROL PRACTICES

Spill control practices are outlined in Section 8.5 of the LC34 HS 6 Expansion – Phase Three IWP. In addition to the good housekeeping and material management practices discussed in the IWP, the following practices will be followed for spill prevention and cleanup:

- Manufacturers' recommended methods for spill cleanup are included in the Site-Specific Safety and Health Plan. Site personnel will be made aware of the procedures and the locations of the information and cleanup supplies.

- Materials and equipment necessary for spill cleanup will be kept in the material storage area on site. Equipment and materials will include, but not be limited to, brooms, dust pans, mops, rags, gloves, goggles, absorbent material, and plastic and metal containers designed specifically for this purpose.

- All spills will be cleaned up immediately after discovery.

- The spill area will be kept well ventilated, and personnel will wear appropriate protective clothing to prevent injury from contact with hazardous substances.

- Spills of toxic or hazardous material will be reported to the NASA RPM.

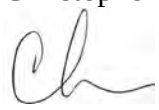
- If a spill occurs, this SWPPP will be modified to include measures to prevent the type of spill from reoccurring and will include information about how to clean up the spill if there is a recurrence. A description of the spill, what caused the spill event, and cleanup measures will also be included.

- The Tetra Tech Construction Supervisor responsible for day-to-day site operations will be the spill prevention and cleanup coordinator. The Construction Supervisor may designate other site personnel to assume these duties. These individuals will each become responsible for a particular phase of prevention and cleanup. The names of responsible spill personnel will be posted with the on-site copy of this SWPPP.

SECTION VI
POLLUTION PREVENTION PLAN CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with the system designed to ensure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Christopher R. Neumann



_____ 4/11/2024

Name (Operator and/or Responsible Authority) Date

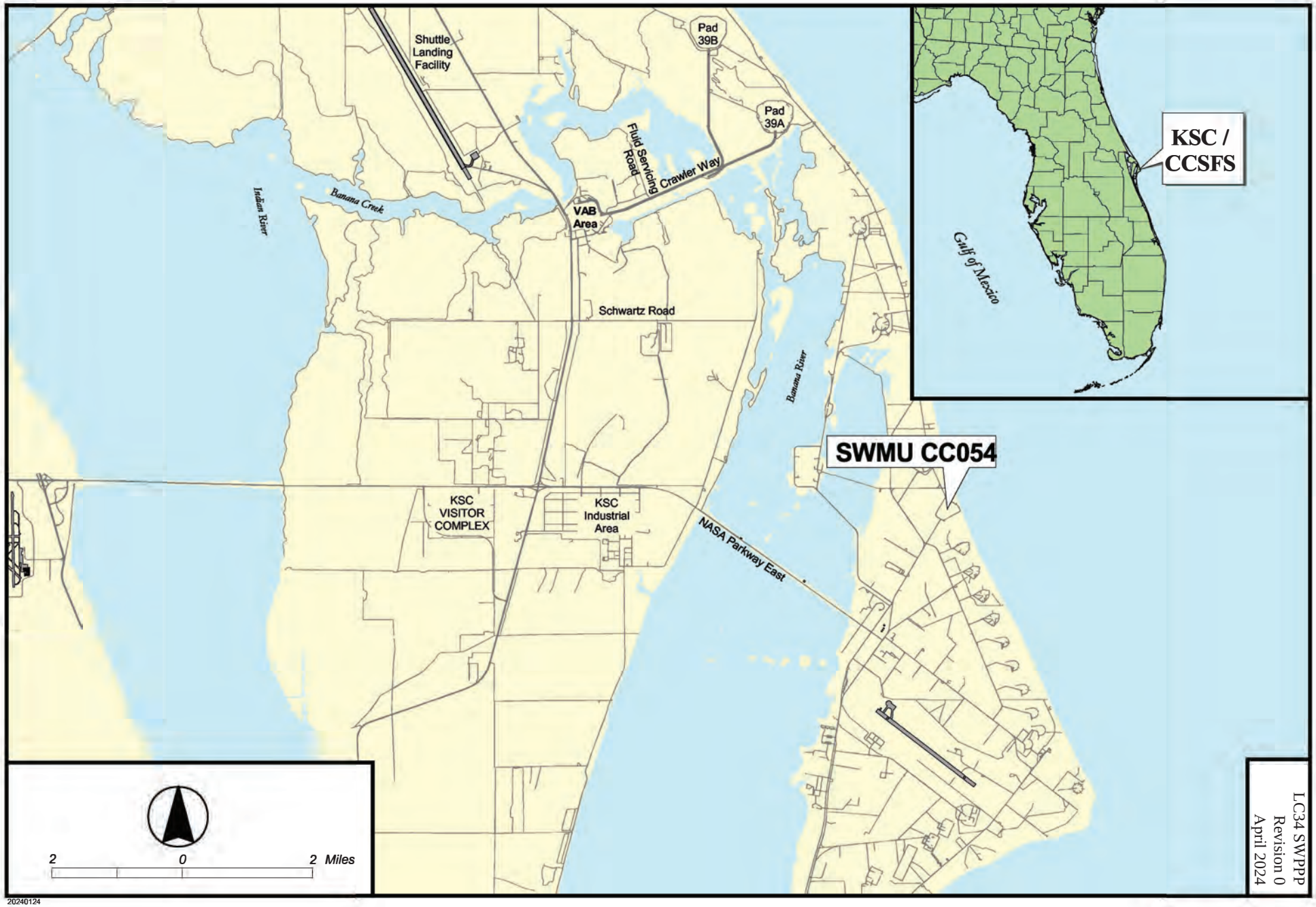
SECTION VII
CONTRACTOR'S CERTIFICATION

I certify under penalty of law that I understand, and shall comply with, the terms and conditions of the State of Florida Generic Permit for Stormwater Discharge from Large and Small Construction Activities and this Stormwater Pollution Prevention Plan prepared thereunder.

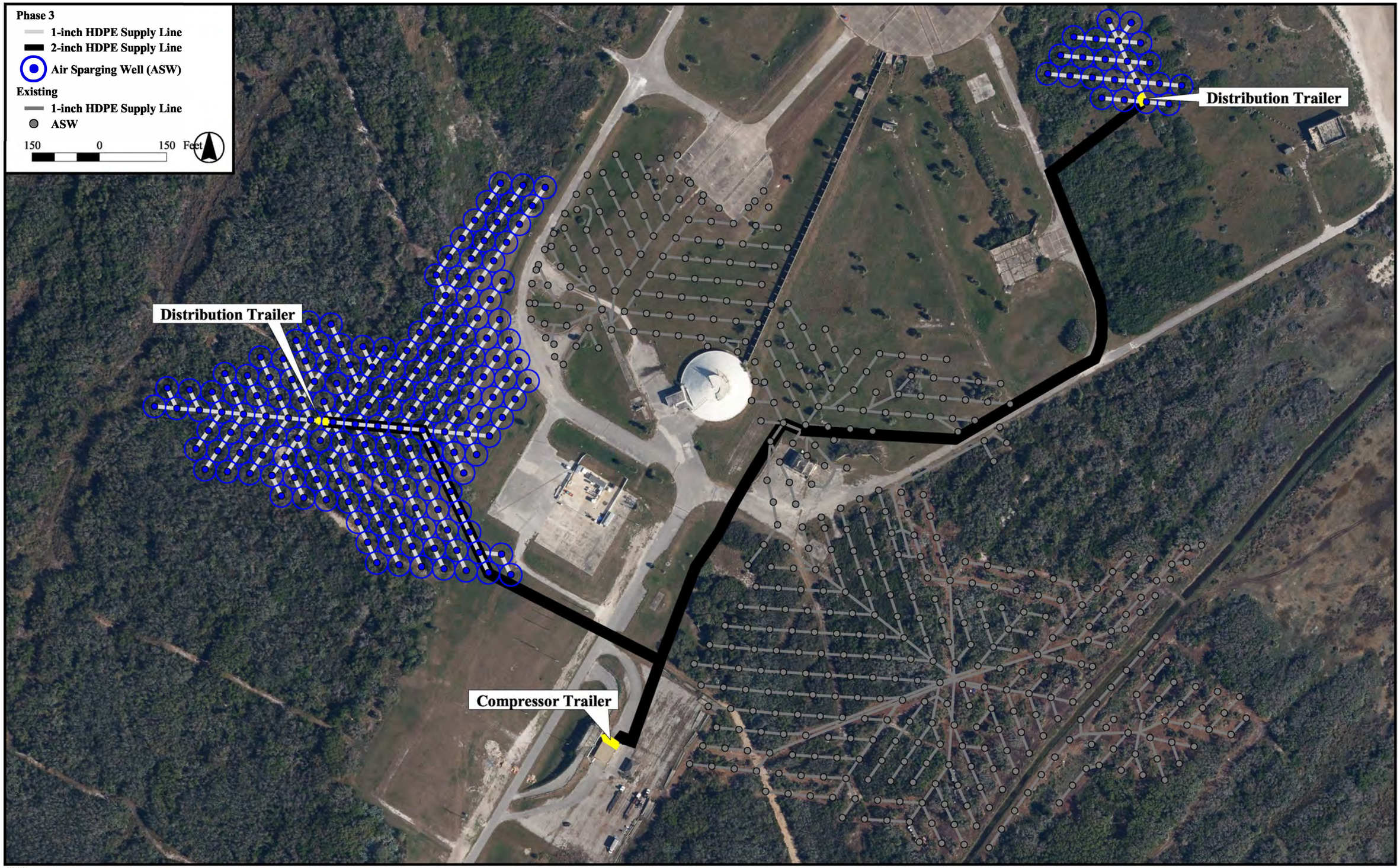
Name	Signature	Title	Company Name, Address, and Telephone Number	Date
Christopher R. Neumann		Construction Supervisor	Tetra Tech, Inc. 1353 N Courtenay Pkwy Suite S Merritt Island, FL 32953 321-637-8447	4/11/2024

APPENDIX A
FIGURES

FIGURE A-1 SITE LOCATION MAP
SWMU CC054, LAUNCH COMPLEX 34 CAPE CANAVERAL SPACE FORCE STATION FLORIDA

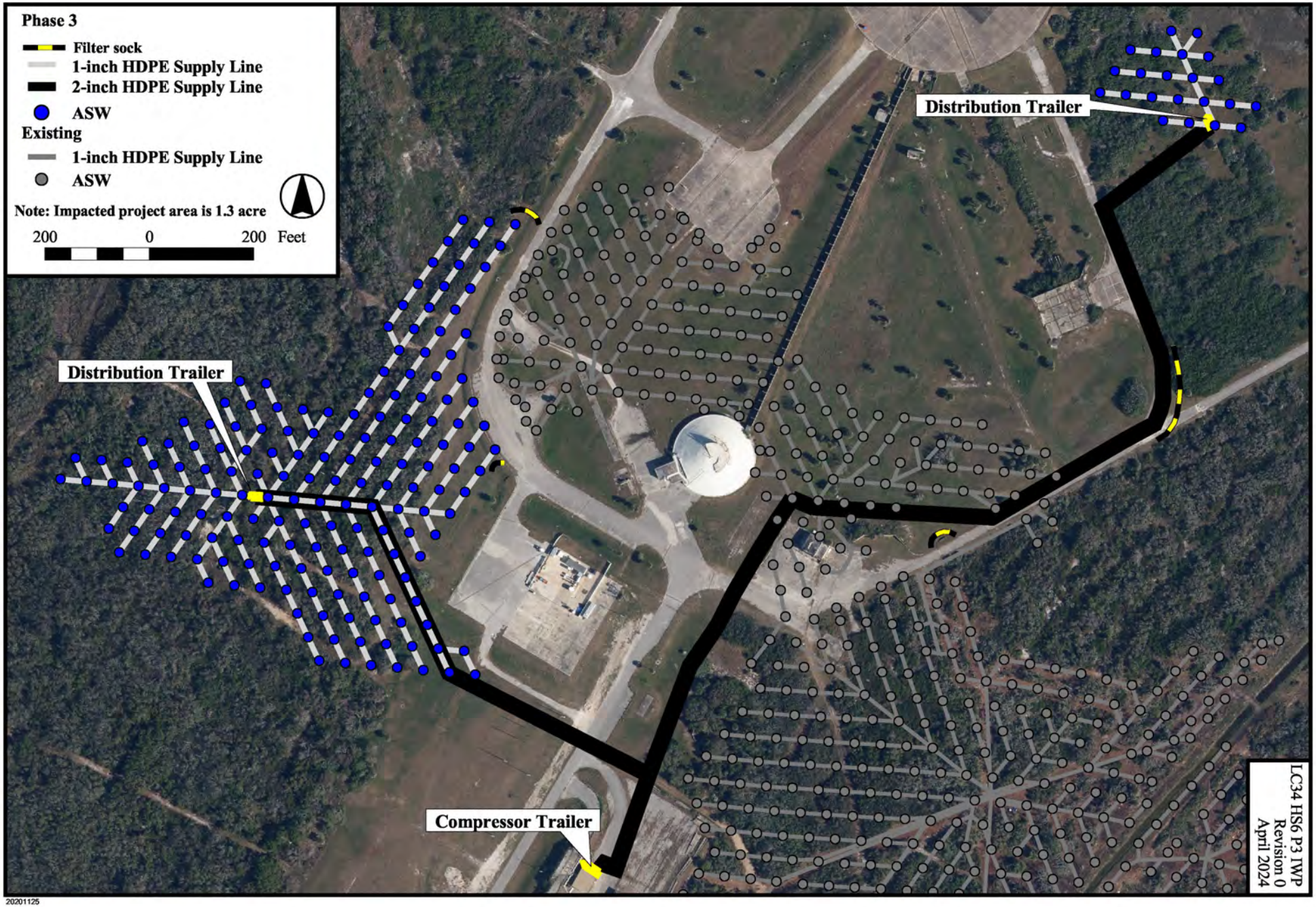


LC34 SWPPP
Revision 0
April 2024

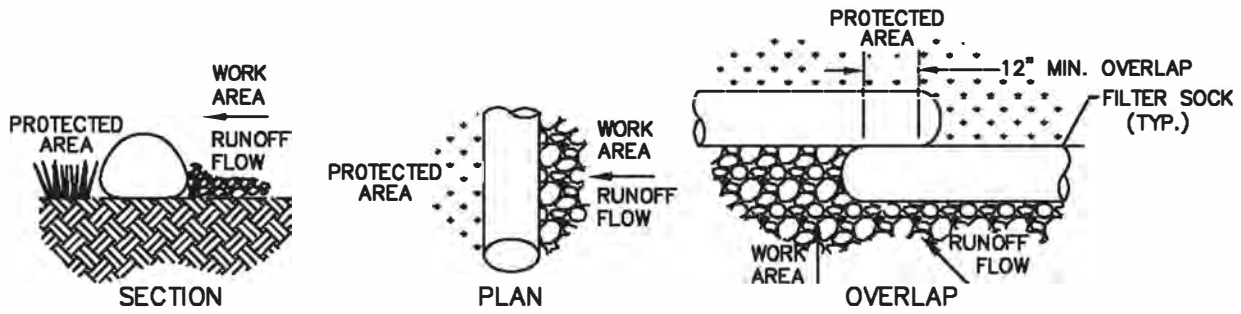

Phase 3
1-inch HDPE Supply Line
2-inch HDPE Supply Line
Air Sparging Well (ASW)
Existing
1-inch HDPE Supply Line
ASW
150 0 150 Feet
Distribution Trailer
Distribution Trailer
Compressor Trailer

20240124

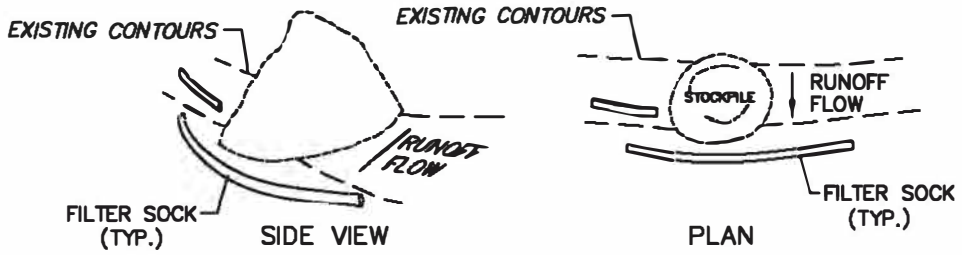
FIGURE A-3 HOT SPOT 6 EXPANSION - PHASE TWO - EROSION AND SEDIMENT CONTROL PLAN
SWMU CC054, LAUNCH COMPLEX 34, CAPE CANAVERAL SPACE FORCE STATION, FLORIDA



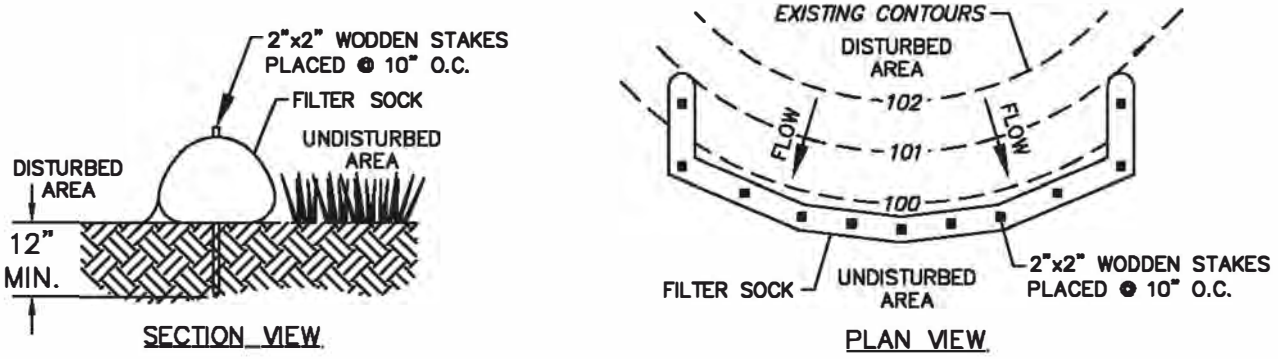
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PERIMETER PROTECTION



STOCKPILE CONTAINMENT



TRAFFIC SHALL NOT BE PERMITTED TO CROSS FILTER SOCKS.

ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/2 THE ABOVE GROUND HEIGHT OF THE SOCK.

SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.

BIODEGRADABLE FILTER SOCK SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, STAKES SHALL BE REMOVED. AS DIRECTED BY THE ENGINEER, THE SOCK MAY BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH MAY BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT.

FILTER SOCK DETAIL

NOT TO SCALE

20170605

APPENDIX B
EPA DOCUMENTS

EPA CONSTRUCTION GENERAL PERMIT REQUIREMENTS
PRECONSTRUCTION CHECKLIST

Storm Water Pollution Prevention Plans

1. A site description, including:

   ☒ The nature of the activity.

   Refer to Section 1.2 of the Storm Water Pollution Prevention Plan.

   ☒ Intended sequence of major construction activities.

   Refer to Section 2.3 of the Storm Water Pollution Prevention Plan.

   ☒ The total area of the site.

   Refer to Section 1.2 of the Storm Water Pollution Prevention Plan.

   ☒ The area of the site that is expected to undergo excavation.

   Refer to Section 2-1 and Figure A-2 of the Storm Water Pollution Prevention Plan.

   ☒ The runoff coefficient of the site after construction is complete.

   Because construction activities will not increase peak runoff from the site, pre- and post-construction runoff calculations were not performed. Therefore, the runoff coefficient of the site following construction was not determined.

   ☒ Existing soil or storm water data.

   Because construction activities will return the areas of disturbance to existing grades and existing conditions, existing soil types and storm data were not inventoried for the purpose of evaluation changes due to construction.

A site map with:

   ☒ Drainage patterns.

   Because construction activities will not increase peak runoff from the site, pre- and post-construction runoff calculations were not performed. Therefore, drainage patterns were not defined.

   ☒ Approximate slopes after major grading.

   Stormwater Pollution Prevention Plan indicates post construction grading conditions will be the same as the pre-construction conditions. No grading plans are presented.

   ☒ Area of soil disturbance.

   Refer to Figure A-3 of the Storm Water Pollution Prevention Plan.

   ☒ Outline of areas which will not be disturbed.

   Refer to Figure A-2 of the Storm Water Pollution Prevention Plan.

☒ Location of major structural and non-structural controls.

Refer to Figure A-3 of the Storm Water Pollution Prevention Plan.

☒ Areas where stabilization practices are expected to occur.

Refer to Figure A-3 of the Storm Water Pollution Prevention Plan.

☒ Surface waters.

Refer to Figures A-1 and A-3 of the Storm Water Pollution Prevention Plan.

☒ Storm water discharge locations.

Refer to Section 2.1 of the Storm Water Pollution Prevention Plan.

☒ The name of the receiving water(s).

Refer to Section 2.1 of the Storm Water Pollution Prevention Plan.

2. A description of controls:

2.1 Erosion and sediment controls, including:

☒ Stabilization practices for all areas disturbed by construction.

Refer to Sections 2.2, 2.2.1, and 2.4 of the Storm Water Pollution Prevention Plan.

☒ Structural practices for all drainage/discharge locations.

Refer to Sections 2.2 and 2.2.1 of the Storm Water Pollution Prevention Plan.

2.2 Storm water management controls, including:

☒ Measures used to control pollutants occurring in storm water discharges after construction activities are complete.

Refer to Sections 2.2 and 2.4 of the Storm Water Pollution Prevention Plan.

☒ Velocity dissipation devices to provide non-erosive flow conditions from the discharge point along the length of any outfall channel.

Refer to Section 2.2.1 of the Storm Water Pollution Prevention Plan.

2.3 Other controls including:

☒ Waste disposal practices which prevent discharge of solid materials to waters of the U.S.

Refer to Section 5 of the Storm Water Pollution Prevention Plan.

☒ Measures to minimize offsite tracking of sediments by construction vehicles.

Refer to Section 5.1 of the Storm Water Pollution Prevention Plan.

☒ Measures to ensure compliance with State or local waste disposal, sanitary sewer, or septic system regulations.

N/A.

2.4 ☒ Description of the timing during the construction when measures will be implemented.

Refer to Section 2.3 of the Storm Water Pollution Prevention Plan.

3. ☒ State or local requirements incorporated into the plans.

Refer to Sections 2.0, 2.2.1 and 3.0 of the Storm Water Pollution Prevention Plan.

4. ☒ Inspection and maintenance procedures for control measures identified in the plan.

Refer to Section 4.0 of the Storm Water Pollution Prevention Plan.

5. ☒ Identification of allowable non-storm water discharges and pollution prevention measures.

Refer to Section 5.0 of the Storm Water Pollution Prevention Plan.

6. ☒ Contractor certification.

Refer to Section 7.0 of the Storm Water Pollution Prevention Plan.

7. ☒ Plan certification.

Refer to Section 6.0 of the Storm Water Pollution Prevention Plan.

EPA CONSTRUCTION GENERAL PERMIT CHECKLIST

Storm Water Pollution Prevention Plan
Construction/Implementation Checklist

1. Maintain Records of Construction Activities, including:

   - ☐ Dates when major grading activities occur
   - ☐ Dates when construction activities temporarily cease on a portion of the site
   - ☐ Dates when construction activities permanently cease on a portion of the site
   - ☐ Dates when stabilization measures are initiated on the site

2. Prepare Inspection Reports summarizing:

   - ☐ Name of inspector
   - ☐ Qualifications of inspector
   - ☐ Measures/areas inspected
   - ☐ Observed conditions
   - ☐ Changes necessary to the SWPPP

3. Report Release of Reportable Quantities of Oil or Hazardous Materials (if they occur);

   - ☐ Notify National Response Center 800/424-8802 immediately
   - ☐ Notify permitting authority in writing within 14 days
   - ☐ Modify the pollution prevention plan to include:

     - The date of release
     - Circumstances leading to the release
     - Steps taken to prevent reoccurrence of the release

4. Modify Pollution Prevention Plan as necessary to:

   - ☐ Comply with minimum permit requirements when notified by EPA that the plan does not comply.
   - ☐ Address a change in design, construction, operation, or maintenance which has an effect on the potential for discharge of pollutants
   - ☐ Prevent reoccurrence of reportable quantity releases of a hazardous material or oil.

APPENDIX C
INSPECTION REPORT FORM

Stormwater Pollution Prevention Plan Inspection Report Form

Inspections must occur at least once a week and within 24 hours of the end of a storm event that is 0.50 inches or greater.

Project Name:_____ FDEP NPDES Stormwater Identification Number: _____

Location	Rain data	Type of Control (see below)	Date installed/ Modified	Current Condition (see below)	Corrective Action /Other Remarks

Condition Code:

G = Good M = Marginal, needs maintenance or replacement soon P = Poor, needs immediate maintenance or replacement

C = Needs to be cleaned O = Other

Control Type Codes

1. Silt Fence	10. Storm drain inlet protection	19. Reinforced soil retaining system	28. Tree protection
2. Earth dikes	11. Vegetative buffer strip	20. Gabion	29. Detention pond
3. Structural diversion	12. Vegetative preservation area	21. Sediment Basin	30. Retention pond
4. Swale	13. Retention Pond	22. Temporary seed/sod	31. Waste disposal/housekeeping
5. Sediment Trap	14. Construction entrance stabilization	23. Permanent seed/sod	32. Dam
6. Check dam	15. Perimeter ditch	24. Mulch	33. Sand Bag
7. Subsurface drain	16. Curb and gutter	25. Hay Bales	34. Filter socks
8. Pipe slope drain	17. Paved road surface	26. Geotextile	35. Other
9. Level spreaders	18. Rock outlet protection	27. Rip-rap	

Inspector Information:

_____ _____ _____

Name Qualification Date

The above signature also shall certify that this facility is in compliance with the Stormwater Pollution Prevention Plan and the State of Florida Generic Permit for Stormwater Discharge from Large and Small Construction Activities if there are not any incidents of non-compliance identified above.

* * * * * *

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

_____ _____

Name (Responsible Authority) **Date**

APPENDIX D

STORMWATER POLLUTION PREVENTION PLAN ADDENDA

(as needed to post modifications to SWPPP)

APPENDIX H

FIELD LOG SHEETS

Tetra Tech, Inc.

PROJECT: Air Sparge IM Installation - Expansion - Phase Three **JOB #:** _____
LOCATION: LC34 Hot Spot 6 **DATE:** _____
PROJECT MANAGER: Mark Jonnet **FOL:** _____

DAILY ACTIVITIES CHECKLIST

Startup Checklist

Activity	Yes	No	N/A
Pertinent site activities/information entered into site logbook			
All onsite personnel listed in logbook			
Required medical information onsite for all workers (Tetra Tech and Subcontractors)			
Required MSDS's onsite			
Proper equipment calibrations performed (list equipment)			
1 _____			
2 _____			
3 _____			
4 _____			
Calibration logs filled out			
Tailgate H&S meeting held prior to beginning field activities			
Required work permits filled out/signed			
Required utility clearances obtained			
Required PPE onsite and in use			
Information required to be posted is in place (OSHA poster, hospital route, key phone numbers, etc.)			

Exit Checklist

Activity	Yes	No	N/A
Logbooks completely and comprehensively filled out			
Field forms complete and accounted for/properly filed			
Samples properly packaged/shipped			
COCs faxed to appropriate in-house personnel			
All equipment accounted for, on charge if needed, and properly secured			
All personnel accounted for			
Arrangements made for upcoming work (permits, clearances, equipment, etc.)			
Site properly secured			

Note - not all items listed apply to every job, and some additional requirements may apply on a job-specific basis.

Tetra Tech, Inc.

DAILY ACTIVITIES RECORD

PROJECT NAME: .C34 Hot Spot 6 Air Sparging IM - Expansion - Phase Thre **PROJECT NUMBER:** _____

CLIENT: NASA, Kennedy Space Center **LOCATION:** _____

DATE: _____ **ARRIVAL TIME:** _____

TETRA TECH PERSONNEL: _____ **DEPARTURE TIME:** _____

CONTRACTOR: _____ **DRILLER:** _____

ITEM	QUANTITY ESTIMATE	QUANTITY TODAY	PREVIOUS TOTAL QUANTITY	CUMULATIVE QUANTITY TO DATE

COMMENTS: _____

APPROVED BY:

_____ _____

TETRA TECH REPRESENTATIVE DRILLER

DATE: _____

Tetra Tech, Inc.

PROJECT: LC34 Hot Spot 6 Air Sparging IM - Expansion - Phase Three

LOCATION: LC34

JOB & CTO #: _____

MOBILIZATION DATE: _____

PROJECT MANAGER: Mark Jonnet

RETURN DATE: _____

FIELD PROJECT PRE-MOBILIZATION CHECKLIST

TRAVEL

___ Airline reservations
___ Hotel reservations/BOQs
___ Vehicle rental
___ Itinerary
___ Phone/pager number

DRILLING/DPT/SURVEY

Subcontractor
___ POC phone #/address
___ Drill Specification RFP
___ Contact (time & place to meet)
___ Confirm subcontract w/ TtNUS Procurement
___ Health and Safety documentation for all personnel on site
___ Copy of Drillers license
___ Well / boring permits

Utilities (2 weeks lead time)
___ Contact Site POC (Date:_____)
___ Contact Local "Call Before You Dig"
___ Utility Clearance Form

Forms
___ Boring logs / Test Pit logs
___ Well construction / development forms
___ Daily activity forms
___ IDW inventory
___ IDW drum labels
___ Chemical Inventory
___ MSDS's

EQUIPMENT MOBILIZATION

___ Equipment Requisition form completed / equipment ordered
___ 3rd Party rental / misc. equipment ordered
___ Equipment calibration forms
___ Span / calibration gas and regulator

SAMPLING

Forms
___ Sample log sheets
___ Low-flow purge data sheets
___ COC records
___ COC seals
___ Sample labels (from database group)

Laboratory
___ POC address/phone#
___ Order bottles / preservatives
___ Shipping address, also check Sat. address
___ Bottle & preservation req'ts from lab
___ _____

MISCELLANEOUS

Schedule
___ Plan field operations w/ Project manager

Documents for Field Program
___ Logbook(s)
___ Field Sampling plan
___ Health & Safety plan
___ Maps
___ H & S Guidance Manual

Authorization
___ Kick-off meeting held
___ Gov't rate letter
___ H&S/OSHA 40-hour certifcate
___ 8-Hour Refresher Training Certificate
___ Medical Clearance Letter
___ Supervisory Training Certificate
___ Health & Safety Clearance Letter
___ Full-size OSHA Poster

HYDROGEOLOGY EQUIPMENT

___ Slug test/pumping test forms
___ Groundwater elevation data sheets
___ Graph paper
___ Data Logger/transducer/data cable
___ Existing well construction & water level data
___ M-Scope, slug

SHIPPING

Forms
___ FedEx Airbills, local dropoff location & hours
___ FedEx Gov. Acct# (1771-8058-0)
___ Lab Shipping Labels
___ Warehouse Shipping Labels
___ Blank Labels

Supplies
___ Tape
___ Packing materials
___ Baggies, Large garbage bags

OTHER

___ Site POC name/phone #
___ Personnel information to POC
___ Mobilization schedule to POC
___ Site access authorizations
___ Field office / trailer arrangements made
___ Electric, phone hookups arranged
___ Steel-toed boots, safety glasses, & hard hat
___ First aid equipment
___ Insect repellent
___ _____
___ _____

Note - not all items listed apply to every job, and some additional requirements may apply on a job-specific basis.

Tetra Tech, Inc.

BORING LOG

Page ___ of ___

PROJECT NAME: LC34 Hot Spot 6 Air Sparging IM - Expansion - Phase Three
PROJECT NUMBER:
DRILLING COMPANY:
DRILLING RIG:

BORING No.:
DATE:
GEOLOGIST:
DRILLER:

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	MATERIAL DESCRIPTION: Color	MATERIAL DESCRIPTION: Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Drilling Area Background (ppm):

Remarks:

Converted to Well: Yes ____ No ____ Well I.D. #:

Tetra Tech, Inc.

GROUNDWATER LEVEL MEASUREMENT SHEET

Project Name: LC34 Hot Spot 6 Air Sparging IM - Expansion - Phas **Project No.:** _____

Location: _____ **Personnel:** _____

Weather Conditions: _____ **Measuring Device:** _____

Tidally Influenced: Yes ____ No ____ **Remarks:** _____

Well or Piezometer Number	Date	Time	Elevation of Reference Point (feet)*	Total Well Depth (feet)*	Water Level Indicator Reading (feet)*	Thickness of Free Product (feet)*	Groundwater Elevation (feet)*	Comments

* All measurements to the nearest 0.01 foot

Tetra Tech, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: LC34 Hot Spot 6 Air Sparging IM - Expansion - Phase Three
Project No.:

[] Domestic Well Data
[] Monitoring Well Data
[] Other Well Type:
[] QA Sample Type:

Sample ID No.:
Sample Location:
Sampled By:
C.O.C. No.:
Type of Sample:
[] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: / Time:	**Color** (Visual)	**pH** (S.U.)	**S.C.** (mS/cm)	**Temp.** (^{0}C)	**Turbidity** (NTU)	**DO** (mg/l)	**Salinity** (%)	Other
Method:								

PURGE DATA:

Date:	**Volume**	**pH**	**S.C.**	**Temp.**	**Turbidity**	**DO**	**Salinity**	Other
Method:								
Monitor Reading (ppm):								
Well Casing Diameter & Material Type:								
Total Well Depth (TD):								
Static Water Level (WL):								
One Casing Volume(gal/L):								
Start Purge (hrs):								
End Purge (hrs):								
Total Purge Time (min):								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	**Preservative**	**Container Requirements**	**Collected**

OBSERVATIONS / NOTES:

Circle if Applicable:

MS/MSD **Duplicate ID No.:**

Signature(s):

Tetra Tech, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: LC34 Hot Spot 6 Air Sparging IM - Expansion - Phase Three
Project No.:

[] Surface Soil
[] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.:
Sample Location:
Sampled By:
C.O.C. No.:

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date:	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time:			
Method:			
Monitor Reading (ppm):			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth Interval	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings				
(Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tec, Inc.

MONITORING WELL DEVELOPMENT RECORD

Well: _____ Depth to Bottom (ft.): _____ Responsible Personnel: _____
Site: LC34 HS 6 - Expansion - Phase Three Static Water Level Before (ft.): _____ Drilling Co.: _____
Date Installed: _____ Static Water Level After (ft.): _____ Project Name: _____
Date Developed: _____ Screen Length (ft.): _____ Project Number: _____
Dev. Method: _____ Specific Capacity: _____
Pump Type: _____ Casing ID (in.): _____

Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)	Water Level Readings (Ft. below TOC)	Temperature (Degrees C)	pH	Specific Conductance (Units _____)	Turbidity (NTU)	Remarks (odor, color, etc.)

Precommissioning/Shakedown Inspection Checklist
LC34 HS 6 - Expansion - Phase Three, SWMU CC054
Kennedy Space Center, Florida

Site: LC34 HS 6, SWMU CC054	**Date:**	
Name:		
Purpose:		
Weather:		
	Verification	**Comments**
Subsurface		
Wells installed and developed	Y / N	
Well heads assembled and installed correctly	Y / N	
Distribution manifold assembled and installed correctly	Y / N	
Trenches, seals, piping installed as specified	Y / N	
Piping Installation		
Piping complete (aboveground and subsurface)	Y / N	
Control and check valves installed and operation verified	Y / N	
Valves accessible and operational	Y / N	
Piping clearly labeled and valves tagged	Y / N	
Final approval from utility inspector (if applicable)	Y / N	
Equipment Building		
Treatment system built to specifications	Y / N	
Vibration dampers installed on heavy equipment, bolted in place	Y / N	
Motor and blower coupling alignments level and true	Y / N	
Blower and pump rotation verified	Y / N	
Pipe supports installed/tested	Y / N	
Pumps and seals intact (no leaks)	Y / N	
Belts properly tensioned, guards in place	Y / N	
Lubricating oil filled, motors greased	Y / N	
Electrical/Controls/Instrumentation		
Grounding installed/inspected	Y / N	
Lighting/Exhaust Fans/HVAC/Thermostats functional	Y / N	
Lockouts/covers/panels in place	Y / N	
Pressure/vacuum/flow/temp. transducers functioning/calibrated	Y / N	
Temperature, pressure, and vacuum gauges installed	Y / N	
High and low fluid level, pressure, and temp. sensors operating	Y / N	
Disconnects in sight of unit being controlled	Y / N	
Controls/Alarms/Interlocks functional and calibrated	Y / N	
Power connected to on-line monitoring instruments	Y / N	
Final approval from electrical inspector, if applicable	Y / N	
General		
Operators have been properly trained	Y / N	
Air sparge system functional	Y / N	
Control panel purge system functional	Y / N	
Other (Enter additional commisioning inspections)		
	Y / N	
	Y / N	
	Y / N	
	Y / N	
	Y / N	

Signature: Date:

STARTUP SEQUENCE CHECKLIST		
Site: LC34 HS6, SWMU CC054		**Date:**
Name:		
Purpose:		
Weather:		
Verification	**Verification**	**Comments**
Review HASP and system O&M manual	Y / N	
Verify that ALL commissioing activities have been completed	Y / N	
Verify liquid/air-tight seals at AS wells are tight	Y / N	
Verify that filter elements are installed	Y / N	
Verify that condensate lines and treatment system is prepared for operation	Y / N	
Ensure that ALL baseline samples and measurements have been collected	Y / N	
Energize system control panel	Y / N	
Verify rotating equipment operation/rotation through manual bump overide	Y / N	
Calibrate all dedicated and portable instruments & file calibration sheets	Y / N	
Treatment System Startup		
Place manual distribution valves into their appropriate positions	Y / N	
Place manual system valves into their appropriate positions	Y / N	
Verify electrical disconnect is in energized poistion	Y / N	
Ensure all alarms conditions are cleared	Y / N	
Turn solenoid valves selector switch to AUTO, verify sequencing	Y / N	
Turn air compressor selector switch to AUTO	Y / N	
Verify operating flows, pressures, and temperatures	Y / N	
Verify system of sequence of operation and operating parameters	Y / N	
Inspect lines for leaks at operating conditions	Y / N	
Other		
Collect Samples as indicated in IWP	Y / N	
Complete O&M checklist upon completion of shakedown/start-up	Y / N	

Signature: **Date:**

LC34 - Process Data Recording Sheet (Each Visit)

			Compressor Data						Reciever Tank				Air Dryer							Condensate		
			Runtime	Duty	Load	Temp	Flow	VFD	Inlet P	Outlet P	Flow	Temp	Runtime	Load	Dew Pt	Outlet P	Temp	Flow	VFD	Replace	Oil	
Date	Time	Initials	hrs	min	amps	ºF	cfm	Hz	psig	psig	cfm	ºF	hrs	amps	ºF	psig	ºF	cfm	Hz	Filters?	Level	Comments

Routine System Inspection Checklist
LC34 HS 6 - Expansion - Phase Three, SWMU CC054
Kennedy Space Center, Florida

	Each Visit	Every 3 Months or 2000 hours	Every 6 Months	As needed
ROTARY SCREW COMPRESSOR				
Check Unit for loose bolts and parts	X			
Clean/Replace Air Filter	X			
Replace Oil		X		
Lubricate Bearings		X		
RECEIVER TANK				
Purge Tank	X			
Check Regulator	X			
REFRIGERATED AIR DRYER				
Check Unit for loose bolts and parts	X			
Cleaning Coil cooling fins of oil and dust	X			
Internal Coil Flush				X
Electric Motor Lubrication		X		
Cleaning of Fan Blades	X			
CONDENSATE MANAGEMENT SYSTEM				
Inspect autodrains and check valves	X			
Properly dispose of separated oil				X
Replace carbon media			X	
Flush carbon with dilute acid				X

IDW Management Form
LC34 HS 6 - Expansion - Phase Three, SWMU CC054
Kennedy Space Center, Florida

Site	Generation Date	Media	Source	Number of Drums Present	Pallet ID	Drum ID Number (Bar Code)	Contact	Location of Drums	IDW Origination	pH	pH adjusted?	Adjusted pH	Concentrations (ug/L)	Strap
LC34 (Example)	09/10/12	Water	DPT Sampling DPT's 0161-0170 (80%)	1	00765	185505	Deda Johansen (321) 508-2289	Top of Hill North end of HBF	Purge water DPT's 0161-0170	7.50	No	NA	Maximums: TCE = 210, cDCE = 8100, tDCE = 140, VC = 5900	Yes