CORRECTIVE MEASURES IMPLEMENTATION
ANNUAL REPORT, YEAR 9
FOR THE
HYPERGOL MAINTENANCE FACILITY
HAZARDOUS WASTE SOUTH STAGING AREAS
SWMU 070
AT THE
JOHN F. KENNEDY SPACE CENTER, FLORIDA
Revision 0

Prepared for:
Environmental Assurance Branch
National Aeronautics and Space Administration
John F. Kennedy Space Center
Kennedy Space Center, Florida  32899

Prepared by:
Tetra Tech, Inc.
661 Andersen Drive
Pittsburgh, PA 15220
(412) 921-7090

Prepared by:  ________________________________________
Ralinda R. Miller
Tetra Tech, Inc.

Approved by:  ________________________________________
Mark P. Speranza, P.E.
Tetra Tech, Inc.

January 2015

This report was prepared in accordance with sound professional practices. The figures, tables, and text have been reviewed and certified by a Professional Engineer registered in the State of Florida.

___________________________
Robert F. Simcik, P.E.
Professional Engineer No. 61263
Engineering Business License No. 2429
PREFACE

This document presents the Corrective Measures Implementation (CMI) Year 9 Annual Report for the implementation of corrective measures at the Hypergol Maintenance Facility (HMF) Hazardous Waste South Staging Areas at Kennedy Space Center, Florida. The work is being performed by Tetra Tech, Inc., for the National Aeronautics and Space Administration (NASA) under Basic Ordering Agreement (BOA) NNK09CA04B, Delivery Order (DO) 12. Mr. Harry Plaza, P.E., of NASA’s Environmental Assurance Branch is the Remediation Project Manager for John F. Kennedy Space Center. The Tetra Tech Program Manager is Mr. Mark Speranza, P.E., and the Tetra Tech Project Manager is Robert Simcik, P.E.

Approved: __________________________

Robert F. Simcik, P.E.
Project Manager
Tetra Tech, Inc.
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<th>Description</th>
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<td>Annual Groundwater Monitoring Report</td>
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<td>bls</td>
<td>below land surface</td>
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<td>BOA</td>
<td>Basic Ordering Agreement</td>
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<td>CM</td>
<td>Corrective Measures</td>
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<td>direct-push technology</td>
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<td>Hypergol Maintenance Facility</td>
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<td>Kennedy Space Center</td>
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<td>KSCRT</td>
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<tr>
<td>MNA</td>
<td>monitored natural attenuation</td>
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<tr>
<td>MNA-DV</td>
<td>Monitored Natural Attenuation Default Value</td>
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<td>NASA</td>
<td>National Aeronautics and Space Administration</td>
</tr>
<tr>
<td>NFA</td>
<td>no further action</td>
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<td>Resource Conservation and Recovery Act</td>
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<td>Sampling and Analysis Plan</td>
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<td>trichlorofluoromethane</td>
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<td>µg/L</td>
<td>microgram per liter</td>
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<td>VC</td>
<td>vinyl chloride</td>
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<td>VOC</td>
<td>volatile organic compound</td>
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SECTION 1

INTRODUCTION

1.1 OVERVIEW
This Corrective Measures Implementation (CMI) Year 9 Annual Groundwater Monitoring Report (AGWMR) for the Hypergol Maintenance Facility (HMF) Hazardous Waste South Staging Areas was prepared by Tetra Tech, Inc., for the National Aeronautics and Space Administration (NASA) under Basic Ordering Agreement (BOA) NNK09CA04B, Delivery Order (DO) 12. This CMI Report has been prepared as part of the Resource Conservation and Recovery Act (RCRA) corrective action program being implemented at Kennedy Space Center (KSC).

1.2 PURPOSE
The purpose of this CMI Year 9 AGWMR is to present the actions taken and results obtained during the ninth year of implementation of Corrective Measures (CM) at HMF. Groundwater monitoring activities were conducted in accordance with the CMI Work Plan (Tetra Tech, 2005a) and CMI Site-Specific Safety and Health Plan (Tetra Tech, 2005b). Groundwater monitoring activities detailed in this Year 9 report include pre-startup sampling in February 2014 (prior to restarting the air sparging system) and quarterly performance monitoring in March, July, and September 2014. December 2013 results were presented in the CMI Year 8 AGWMR. The Year 10 AGWMR will present the results of quarterly sampling conducted in December 2014 and March, July, and September 2015.

The results of the first 6 months of CMI (including system installation) and the first 6 months of system operation were presented in the CMI Construction Completion and Semi-Annual HMF Hazardous Waste South Staging Areas Report (Tetra Tech, 2006a), and the results of the second 6 months of the first year of CMI were presented in the CMI Annual Report (Tetra Tech, 2006b). The results for the second year of CMI were presented in the System Expansion Construction Completion and Second Annual Report (Tetra Tech, 2007a and 2007b), and results of the third
through eighth years of CMI were presented in the Years 3 through 8 Annual Reports (Tetra Tech, 2008; 2009; 2010; 2011; 2013; and 2014).

1.3 CORRECTIVE MEASURES OBJECTIVE

The objective of the CM at HMF is to reduce concentrations of contaminants of concern (trichlorofluoromethane [TCFM], vinyl chloride [VC], and aluminum) in groundwater at the site to less than the Florida Department of Environmental Protection (FDEP) Groundwater Cleanup Target Levels (GCTLs) for TCFM and VC or to the upper range of the KSC background values for aluminum (see Table 1-1). Air sparging was recommended and approved for remediation of the TCFM plume, which is defined as areas with concentrations of TCFM in excess of the GCTL (2,100 micrograms per liter [µg/L]) and Monitored Natural Attenuation (MNA) Default Value (MNA-DV) (21,000 µg/L). MNA was selected as the presumptive remedy for monitoring aluminum and VC exceedances of applicable Corrective Measures Objectives (CMOs). Based on reductions in concentrations to less than cleanup levels, no further action (NFA) was approved for VC and aluminum in October 2010 and September 2006, respectively.

1.4 SYSTEM OVERVIEW

Air sparging system operation began in September 2005, and after 1 month of operation, TCFM concentrations had been reduced by 87.2 percent (approximately 173 pounds of TCFM removed). Free product was observed during the fourth month of system operation. Because TCFM concentrations in monitoring well HMF-MW5I had not decreased to less than the MNA-DV and appeared to be stagnant, additional investigation in this area was recommended. An additional direct-push technology (DPT) investigation was conducted in October 2006 to determine whether residual soil contamination existed in the area of HMF-MW5I, to refine the understanding of lithologic conditions in the area, and to attempt to delineate the extent of TCFM groundwater contamination in the area. Results of the DPT investigation indicated that TCFM in groundwater was contained within the existing system treatment area, and no free product was observed. Maximum residual TCFM concentrations were located between wells HMF-MW5I and NLP-IW4I. TCFM concentrations in soil were less than the FDEP residential Soil Cleanup
Target Level (SCTL), but maximum concentrations, detected near HMF-MW5I at 36 to 40 feet below land surface (bls), exceeded the SCTL based on leachability to groundwater. Based on the delineation efforts during the DPT investigation, it was decided that additional shallow air sparging wells would be installed in the area around HMF-MW5I above a low-permeability lithologic layer that was thought to possibly be impacting the effectiveness of the original sparging wells in this area.

The first system expansion was completed in March 2007 and included installation of six additional sparging wells to address contamination in the HMF-MW5I area. From March 2008 to August 2010, the system was operated as needed when rebounding occurred to attempt to reduce TCFM concentrations to less than the GCTL. The system expansion efforts were very successful. TCFM concentrations in all monitoring wells have been less than the MNA-DV since March 2010. A significant system failure occurred in August 2010, air sparging operations ceased, and the rental system was removed from the site; however, all system wells and the piping network remained in place for future use if needed. In March 2011, TCFM concentrations in all wells were less than the GCTL for the first time without the system operating to reduce concentrations, although concentrations rebounded in June 2011, and the TCFM concentration in NLP-IW41 again exceeded the GCTL. In October 2011, the KSC Remediation Team (KSCRT) reached consensus to expand the system to address residual contamination in the area of NLP-IW41 (Meeting Minute 1110-M05, Decision 1110-D24). System expansion activities were completed in 2012, and the modified system with new sparging wells in the NLP-IW41 area operated from October 2012 to March 2013. TCFM concentrations during the December 2012 and March 2013 quarterly events were less than the GCTL in all wells sampled, and based on these results, the system was not restarted after it was shut down on March 25, 2013, for the March sampling event. Because TCFM concentrations increased to greater than the GCTL at NLP-IW41 during the September and December 2013 events, KSCRT consensus was reached at the February 2014 meeting to restart the system with modified operating parameters and operate it for 5 months to evaluate potential rebound (Meeting Minute 1402-M12, Decision 1402-D43). The modified system began operations on February 19, 2014,
and continued to operate for approximately 5 months until July 2, 2014.

1.5 CMI ANNUAL REPORT ORGANIZATION

Section 1: Introduction – This section provides a brief overview of the report and discusses the purpose and objective of the report.

Section 2: System Operation, Maintenance, and Evaluation – This section summarizes the efforts associated with operation and maintenance of the system. This section discusses any deviations and provides explanations for such deviations from the approved plan and specifications.

Section 3: Groundwater Monitoring – This section presents the results of the groundwater sampling events conducted during the reporting period and compares these results to previous sampling results. The efforts associated with groundwater monitoring to evaluate the effectiveness of the treatment system are also presented in this section.

Section 4: Observations and Recommendations – This section presents observations regarding the current status of the CMI and remedial system operation and provides recommendations regarding the CMI.

Section 5: References – This section provides a listing of the references cited in or applicable to this report.
Table 1-1. Site-Specific Cleanup Levels for the HMF

<table>
<thead>
<tr>
<th>Contaminant of Concern</th>
<th>GCTL (µg/L)</th>
<th>MNA-DV (µg/L)</th>
<th>CMO (µg/L)</th>
</tr>
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<tbody>
<tr>
<td>Trichlorofluoromethane</td>
<td>2,100</td>
<td>21,000</td>
<td>2,100</td>
</tr>
<tr>
<td>Vinyl chloride</td>
<td>1</td>
<td>100</td>
<td>1</td>
</tr>
<tr>
<td>Aluminum</td>
<td>200</td>
<td>2,000</td>
<td>1,300(1)</td>
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</tbody>
</table>

1  CMO represents the upper range of KSC background for aluminum. 
µg/L – Micrograms per liter. 
GCTL – Groundwater Cleanup Target Level (Table 1, Chapter 62-777, F.A.C.). 
MNA-DV – Monitored Natural Attenuation Default Value.
SECTION 2

SYSTEM OPERATION, MAINTENANCE, AND EVALUATION

This section describes the current status of the remedial system and the activities conducted related to the air sparging system throughout the ninth year of the CMI. A summary of the system operation and major activities conducted throughout the 9 years of implementation is presented in calendar format in Appendix A.

The first year of system operation resulted in significant overall contaminant reduction; however, the area near HMF-MW5I had minimal TCFM reduction and therefore, in March 2007, additional shallow sparging wells were installed in this area. The addition of the shallow system wells had a significant impact, especially in the area of HMF-MW5I. Additional modifications to the system were made in September 2007, which enabled Zone #4 to be placed back into operation, and the cycling time of the well zone groups was revised from 12 hours to 4 hours. Modifications to the groundwater sampling program in May 2008 decreased the sampling frequency of source wells and the shallow well to bi-monthly and changed the cycling time from well groups (two zones at a time) every 4 hours to individual well groups on a 21-minute alternating schedule. The system was operated periodically at this well group cycling time schedule during the fourth and fifth years of system operation. System failure occurred on 27 August 2010, and the air sparging rental unit was removed from the site; groundwater monitoring activities continued.

Based on team consensus reached during the KSCRT meeting on 27 October 2010, it was recommended that the air sparging system remain off line after system failure and that an appropriate long-term monitoring program be established (Meeting Minute 1010-M04, Decision D07). During subsequent monitoring, TCFM concentrations were less than the GCTL in all wells except NLP-IW4I, at which concentrations had rebounded. At the KSCRT meeting in October 2011, it was decided that system operations should resume with additional sparging
wells in the NLP-IW41 area to address continued exceedances of the TCFM GCTL in this well, with the objective of site closure (Meeting Minute 1110-M05, Decision D14).

Continuation of the concept of sparging at various depths to attempt to establish different air pathways and impact the potential continuing source was proposed for the NLP-IW41 area. Three sparging wells were installed at unique depths (other than current system well depths) in the area of monitoring well NLP-IW41, including ASW-38 at 42 to 44 feet bsls, ASW-39 at 32 to 34 feet bsls, and ASW-40 at 29 to 31 feet bsls. The sparging interval for ASW-38 is half the distance between the top of the deep sparging well and the bottom of the shallow sparging well in the immediate area of NLP-IW41. The objective of ASW-38 was to add another system well below the monitoring well but at a different interval than existing sparging wells. The ASW-39 sparging interval splits the 35-foot depth, which is the top depth of the NLP-IW41 well screen and location of the top of a potential less-permeable zone. The sparging interval for ASW-40 interval is in the zone above the monitoring well in a formation identified as containing shells or shell fragments. The intent of this well was to create some disturbance in this area as well as to treat any contamination that might have been undetected previously.

The remedial system remained off line until October 2012 when the modified system with the three new sparging wells in the NLP-IW41 area was put into operation. On January 15, 2013, operation of the shallow and intermediate wells was revised to a cycle of 2 hours on and 4 hours off as an energy-saving measure. The secondary compressor used to supply deep wells had been cycling for 2 hours on and 2 hours off since operation with that compressor began. TCFM concentrations during the December 2012 and March 2013 quarterly events were less than the GCTL in all wells sampled, and based on these results, the system was not restarted after it was shut down on March 25 for the March 2013 sampling event. However, concentrations at NLP-IW41 increased to greater than the GCTL in September 2013 and increased further in December 2013, and based on these results, consensus was reached at the February 2014 KSCRT meeting to restart the system, with modified operations as follows (Meeting Minute 1402-M12, Decision 1402-D43):
• Use of existing equipment to aggressively sparge individual wells in the NLP-IW4I area for longer durations than during previous operations.

• Use of a secondary compressor to provide continuous air flow to selected wells on alternating 2-day cycles, allowing increased contact time while maintaining the benefits of cycling. Emphasis was placed on deep wells ASW-11 and ASW-38, and other sparging wells in the area were incorporated in the cycling rotation to encourage movement into the zone being monitored.

• Incorporation of monitoring well NLP-IW4I into the cycling rotation as a sparging well. After 1 year of post-active remediation, NLP-IW4I can be used as a compliance point again and will be used as a system performance monitoring well before that time.

The decision at the February 2014 KSCRT meeting was to operate the system with these modified parameters for 5 months to evaluate potential rebound. If rebound was detected, it was recommended that the site transitions to long-term monitoring only (no air sparging operations).

The objective of 2014 operation of the air sparging system was to attempt to address residual contamination around NLP-IW4I by concentrating sparging efforts in nearby wells and by injecting air into NLP-IW4I itself. Operations began with combined sparging to NLP-IW4I and co-located ASW-11 continuously for 5 days from February 19 to 23; subsequent operations generally involved sparging of one nearby well at a time for 2 consecutive days and then alternating to another nearby well. Once per month, NLP-IW4I and ASW-11 were again sparged together for at least 4 days (6 days in June). Sparging wells in the cycling rotation included deep wells ASW-07, ASW-11, ASW-15, and ASW-38 and shallow wells ASW-34, ASW-35, and ASW-39. During 2014, the system operated for 123 days, 95 days with sparging to individual wells and 28 days with combined sparging to NLP-IW4I and ASW-11. NLP-IW4I and ASW-11 were also sparged individually for 18 and 15 days, respectively, and therefore one or both of these wells were sparged for 61 days, approximately 50 percent of the 123 days of 2014.
operation. ASW-7 was sparged for a total of 16 days, ASW-15, ASW-34, and ASW-35 for 10 days each, and ASW-38 and ASW-39 for 8 days each. The system operated continuously except for a 7-day period in June when a compressor failed and was replaced.

The modified system operated for approximately 5 months from February 19 to July 1, 2014 (see Table 2-1). During the July 2014 quarterly monitoring event, 8 days after the system was turned off, the TCFM concentration at HMF-MW5I rebounded to greater than the GCTL, and during the September 2014 event, 12 weeks after system shutdown, TCFM concentrations at NLP-IW41 and HMF-MW5I had increased to greater than the GCTL.

Figure 2-1 shows the layout of the treatment system and locations of monitoring wells.

### 2.1 FUGITIVE EMISSIONS AND AIR QUALITY MONITORING

When the system was operational prior to system failure in 2010, air sampling was conducted to verify the transfer of TCFM from water to air, and real-time air monitoring was conducted during system evaluations and groundwater sampling events using a flame ionization detector to monitor air quality. Air sampling and monitoring were discontinued after startup of the modified system in 2012 because no air issues were identified during initial system operation when groundwater concentrations were significantly greater than those detected during recent groundwater monitoring events.

### 2.2 SYSTEM EVALUATIONS AND MAINTENANCE

Prior to 2010, evaluations of treatment system operating parameters and system maintenance activities specified in the Operation and Maintenance Plan submitted with the CMI Work Plan (Tetra Tech, 2005a) were generally conducted bi-weekly when the system was operational. System evaluations and maintenance did not take place from August 2010 until after the modified system became operational in October 2012. During Year 7, 11 system evaluations were conducted when the system was operational, and during Year 8, 14 system evaluations
were conducted when the system was operational. During Year 9, observations of system operations and adjustments were frequent because wells receiving air changed often (generally every 2 days), and detailed system evaluations were conducted as needed. In addition, periodic mowing of the site and general site maintenance were conducted in conjunction with the quarterly sampling events.

For each system evaluation, the first activity conducted was a site walkthrough to determine if any disturbances to the area, wells, system, or units occurred since the previous evaluation. The only routine maintenance required for the air sparging unit is to verify that the air filter is free of obstructions and to replace the filter as needed. A thorough check of all equipment was conducted to verify that no mechanical problems exist (e.g., leaks, ruptures, loose fittings, etc.). If any adjustments were required to equalize the air flow, they were conducted at that time, and any observations of bubbling caused by system operation were recorded and addressed as needed. A final walkthrough was conducted, and the system was secured until the next evaluation.

There was one unscheduled shutdown during this reporting period, from June 10 to 17, when a compressor failed and had to be replaced, but no other maintenance was required other than routine maintenance activities. The system was shut off on July 1, 2014, after 5 months of operation per the February 2014 KSCRT decision (Meeting Minute 1402-M12, Decision 1402-D43), and remains off.
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Table 2-1. 2014 System Operation
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</table>

System turned off in preparation for groundwater sampling event.

Groundwater sampling event (four source wells) conducted.

Yellow indicates air flow.

TD = Total depth.

System off line from June 10 to 17, 2014, due to compressor failure.
SECTION 3

GROUNDWATER MONITORING

This section presents the results of groundwater sampling to support evaluation of the
effectiveness of the air sparging system.

3.1 GROUNDWATER SAMPLING

Groundwater sampling was conducted in accordance with the Project-Specific Sampling and
Analysis Plan (SAP) submitted with the CMI Work Plan (Tetra Tech, 2005a). The SAP initially
identified that eight wells would be sampled for analysis of volatile organic compounds (VOCs)
by SW-846 Method 8260B. Two additional wells (HMF-MW8I and HMF-MW9I) were
installed and included in the original monthly monitoring well program. One well (NLP-IW2I)
was not functioning; therefore, it was not sampled until it was replaced on 23 January 2007 prior
to the seventeenth monthly groundwater sampling event. Three wells (M71410-IW1S, M71411-
IW1I, and NLP-IW1D) were to be sampled in conjunction with the MNA semi-annual and
annual sampling program; however, because aluminum and VC analyses are no longer required,
monitoring wells M71410-IW1S and M71411-IW1I were eliminated from the sampling
program. Based on consensus reached during the KSCRT Meeting on 27 October 2010, the
Year 6 groundwater monitoring events included sampling of nine wells, including quarterly
sampling in December 2010 and March and June 2011 of three source area wells (NLP-IW1I,
NLP-IW4I, and HMF-MW5I) and the shallow well (NLP-IW1S) and sampling of four perimeter
wells (HMF-MW-6I through HMF-MW-9I) and the deep well (NLP-IW1D) during the
September 2011 annual event. During the seventh year of groundwater monitoring, five
sampling events were conducted, including quarterly events in December 2011, March 2012,
June 2012 (which also served as the baseline sampling event prior to startup of the modified air
sparging system), and December 2012. An additional event was conducted in November 2012
after 1 month of operation of the modified system. Quarterly events included sampling of four
wells, three source area wells (NLP-IW1I, NLP-IW4I, and HMF-MW5I) and the shallow well
(NLP-IW1S). Only NLP-IW4I was sampled during the November 2012 event. During Year 8, quarterly events in March, June, and December 2013 included sampling of four wells, three source area wells (NLP-IW1I, NLP-IW4I, and HMF-MW5I) and the shallow well (NLP-IW1S), and the September 2013 annual event included sampling of the three source area wells (NLP-IW1I, NLP-IW4I, and HMF-MW5I), shallow well NLP-IW1S, four perimeter wells (HMF-MW-6I through HMF-MW-9I), and deep well NLP-IW1D. During Year 9, a pre-startup sampling event was conducted in February prior to the start of modified system operations, and subsequent quarterly events were conducted in March, July, and September 2014.

Year 9 groundwater samples were collected in accordance with the SAP and analyzed for TCFM by Accutest Laboratories in Orlando, Florida, according to the subcontract specifications. The TCFM results are summarized by event in Table 3-1 and by monitoring well in Table 3-2. Figure 3-1 provides a summary of TCFM results for September and March groundwater sampling events from 2005 through September 2011, for all Year 7 events (December 2011 and March, June, November, and December 2012, all Year 8 events (March, June, September, and December 2013), and all Year 9 events (February (pre-startup baseline), March, July, and September 2014). Figure 3-2 provides a graph of the analytical TCFM results from the source wells for the monitoring program beginning with the original baseline sampling event (September 2005), Figure 3-3 provides a summary of the TCFM results from this reporting period, and Figure 3-4 provides a graph of these results for the wells monitored quarterly. Copies of field logbook entries for Year 9 activities are provided in Appendix B, and copies of groundwater chain-of-custody forms, sample log sheets, and laboratory analytical data for the Year 9 events are provided in Appendix C.

3.1.1 PRE-STARTUP SAMPLING. Based on KSCRT consensus at the February 2014 meeting, NLP-IW4I and three sparging wells (ASW-34, ASW-38, and ASW-39) located north of NLP-IW4I were sampled on February 13, 2014, prior to startup of the system on February 19. The February 2014 TCFM concentration at NLP-IW4I was 14,600 µg/L, and the concentrations at the three sparging wells were 79.8, 20.8, and 4,160 µg/L at ASW-34, ASW-38, and ASW-39,
respectively. February 2014 results are included in Table 3-1, and the NLP-IW4I result is included in Table 3-1 and on Figure 3-1.

3.1.2 ONE HUNDRED-SECOND MONTH GROUNDWATER SAMPLING RESULTS.
The groundwater sampling event for the 102nd month of the monitoring program was conducted on March 27, 2014. The system was restarted with modified operational parameters (i.e., addressing residual contamination around NLP-IW4I by concentrating air in nearby wells and injecting air into NLP-IW4I itself) on February 19, 2014, 37 days before the March 2014 event. All TCFM concentrations during this event were less than the GCTL. As shown in Table 3-1, the March 2014 concentration of TCFM at source well NLP-IW4I, 26 µg/L, which was the lowest concentration to date and significantly less than concentrations during the last two quarterly events (6,730 and 10,300 µg/L). Concentrations at HMF-MW5I increased from less than 100 µg/L during the last eight events to 286 µg/L in March 2014. TCFM was detected at NLP-IW1I at 0.79 µg/L in March 2014, after not being detected during the previous two rounds, and TCFM concentrations at NLP-IW1S increased from 83.9 µg/L in December 2013 to 192 µg/L in March 2014. As a result of the significant decrease in concentrations at NLP-IW4I, the overall source area average TCFM concentration for this round was 104 µg/L, significantly less than during the 99th month event (3,444 µg/L), as shown in Table 3-1.

3.1.3 ONE HUNDRED-SIXTH MONTH GROUNDWATER SAMPLING RESULTS.
The air sparging system was shut down on July 1, 2014, after approximately 5 months of operation to evaluate potential rebound, as decided at the February 2014 KSCRRT meeting. Four monitoring wells were sampled during the 106th month groundwater sampling event on 10 July 2014, 9 days after system shutdown. TCFM concentrations increased in three of the four wells sampled, including an order of magnitude increase at HMF-MW5I from 286 µg/L in March 2014 to 2,650 µg/L in July 2014, exceeding the GCTL of 2,100 µg/L. At NLP-IW4I, TCFM concentrations increased from 26 µg/L during the previous event to 123 µg/L. In the other source area well, NLP-IW1I, TCFM concentrations increased at from 0.79 to 51.2 µg/L. At shallow well NLP-IW1S, the TCFM concentration during this event (117 µg/L) was less than the
concentration during the previous event (192 µg/L). As a result of the increases in TCFM concentrations, especially at HMF-MW5I, the overall source area average TCFM concentration increased to 941 from 104 µg/L during the previous event.

### 3.1.4 ONE HUNDRED-EIGHTH MONTH GROUNDWATER SAMPLING RESULTS.

Nine monitoring wells were sampled during the 108th month groundwater sampling event on 22 and 23 September 2014. The system had been off line for approximately 12 weeks prior to this groundwater sampling event. At NLP-IW4I, the TCFM concentration during this event (3,370 µg/L) was significantly greater than the concentration during the previous event (123 µg/L) and exceeded the GCTL for the first time since pre-startup sampling conducted in February 2014 prior to the resumption of system operations. The September 2014 TCFM concentration at HMF-MW5I, 2,130 µg/L, was slightly less than the concentration in July 2014, 2,650 µg/L, but continued to exceed the GCTL. In the other source area well, NLP-IW1I, the September 2014 TCFM concentration was 1.1 µg/L compared to 51.2 µg/L in July 2014. At NLP-IW1S, the TCFM concentration in September 2014, 132 µg/L, was greater than the July 2014 concentration of 117 µg/L. At the five additional wells sampled during this expanded annual event, TCFM concentrations increased at perimeter wells HMF-MW6I, HMF-MW8I, and HMF-MW9I and at deep well NLP-IW1D compared to the previous annual event in September 2013, and TCFM was not detected at HMF-MW7I during the September 2013 or 2014 events. The overall source area average TCFM concentration increased this round to 1,834 µg/L as a result of the significant increase at NLP-IW4I.

### 3.2 GROUNDWATER SAMPLING SUMMARY

The existing groundwater monitoring well network at the site consists of source area wells (subjected to direct treatment during initial system operation), perimeter monitoring wells, and one deep well to evaluate potential vertical migration. During the ninth year of groundwater monitoring, the three source area wells (NLP-IW1I, NLP-IW4I, and HMF-MW5I) and the shallow well (NLP-IW1S) were sampled during the February pre-startup event and March and July 2014 quarterly events, and these four wells in addition to four perimeter wells (HMF-MW6I
through HMF-MW9I) and deep well (NLP-IW1D) were sampled during the September 2014 annual event.

After 5 months of operation of the air sparging system with modified operational parameters, from February to July 2014, source area TCFM concentrations decreased, but they rebounded to concentrations greater than the GCTL at source area wells NLP-IW4I and HMF-MW5I. TCFM concentrations were greater than the GCTL during the July 2014 event at HMF-MW5I (9 days after system shutdown) and during the September 2014 event (12 weeks after system shutdown) at NLP-IW4I and HMF-MW5I. Concentrations at the other source area well (NLP-IW11) and the shallow well fluctuated during this reporting period but remained significantly less than the GCTL, and TCFM concentrations also remained less than the GCTL in the four perimeter wells and the deep well sampled during the September 2014 sampling event.
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<th>Second Month (Nov-05)</th>
<th>Third Month (Dec-05)</th>
<th>Fourth Month (Jan-06) (1)</th>
<th>Fifth Month (Feb-06)</th>
<th>Sixth Month (Mar-06)</th>
<th>Seventh Month (Apr-06)</th>
<th>Eighth Month (May-06)</th>
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</table>

Source wells are: NLP-IW1I, NLP-IW4I, HMF-MW51

Source well average concentration (µg/L) 281,733 36,033 9,173 41,497 101,800 31,610 26,873 15,663 10,167

Source area remaining soluble mass (lbs) 198.43 25.38 6.46 29.23 71.70 22.26 18.93 11.03 7.16

Source area removal from baseline (%) NA 87.21 96.74 85.27 63.87 88.78 90.46 94.44 96.39
### Table 3-1. Groundwater TCFM Data Summary by Sampling Event (continued)

<table>
<thead>
<tr>
<th>Monitoring Well</th>
<th>Ninth Month (June-06)</th>
<th>Tenth Month (July-06)</th>
<th>Eleventh Month (Aug-06)</th>
<th>Twelfth Month (Sept-06)</th>
<th>Thirteenth Month (Oct-06)</th>
<th>Fourteenth Month (Nov-06)</th>
<th>Fifteenth Month (Dec-06)</th>
<th>Sixteenth Month (Jan-07)</th>
<th>Seventeenth Month (Feb-07)</th>
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<tbody>
<tr>
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<td>87,900</td>
<td>75,700</td>
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Source wells are: NLP-IW1I, NLP-IW4I, HMF-MW5I

Source well average concentration (µg/L) 36,360 44,000 19,517 30,830 16,077 41,933 22,753 47,267 51,933

Source area remaining soluble mass (lbs) 25.61 30.99 13.75 21.71 11.32 29.53 16.03 33.29 36.58

Source area removal from baseline (%) 87.09 84.38 93.07 89.06 94.29 85.12 91.92 83.22 81.57
Table 3-1. Groundwater TCFM Data Summary by Sampling Event (continued)

<table>
<thead>
<tr>
<th>Monitoring Well</th>
<th>Eighteenth Month (Mar-07)</th>
<th>Nineteenth Month (Apr-07)</th>
<th>Twentieth Month (May-07)</th>
<th>Twenty-First Month (June-07)</th>
<th>Twenty-Second Month (July-07)</th>
<th>Twenty-Third Month (Aug-07)</th>
<th>Twenty-Fourth Month (Sept-07)</th>
<th>Twenty-Sixth Month (Nov-07)</th>
<th>Twenty-Eighth Month (Jan-08)</th>
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<tr>
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<td><strong>447</strong></td>
<td><strong>8,090</strong></td>
<td><strong>13,100</strong></td>
<td><strong>5,330</strong></td>
<td><strong>2,970</strong></td>
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<td><strong>4,320</strong></td>
<td><strong>2,870</strong></td>
<td><strong>463</strong></td>
<td><strong>217</strong></td>
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<td><strong>19,500</strong></td>
<td><strong>67,000</strong></td>
<td><strong>13,000</strong></td>
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<td>0.5</td>
<td>13,600</td>
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<td>57.10</td>
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<td>0.43 U</td>
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</table>

Source wells are: NLP-IW1I, NLP-IW4I, HMF-MW5I

Source well average concentration (µg/L) 38,550 10,257 2,447 10,627 27,507 6,385 9,957 3,279 1,422
Source area remaining soluble mass (lbs) 27.15 7.22 1.72 7.48 19.37 4.50 7.01 2.31 1.00
Source area removal from baseline (%) 86.32 96.36 99.13 96.23 90.24 97.73 96.47 98.84 99.50
### Table 3-1. Groundwater TCFM Data Summary by Sampling Event (continued)

<table>
<thead>
<tr>
<th>Monitoring Well</th>
<th>Thirtieth Month (Mar-08)</th>
<th>Thirty-Second Month (May-08)</th>
<th>Thirty-Fourth Month (July-08)</th>
<th>Thirty-Sixth Month (Sept-08)</th>
<th>Thirty-Eighth Month (Nov-08)</th>
<th>Fortieth Month (Jan-09)</th>
<th>Forty-Second Month (Mar-09)</th>
<th>Forty-Fourth Month (May-09)</th>
<th>Forty-Fifth Month (Jul-09)</th>
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<td>519</td>
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<td>309</td>
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<td>NS</td>
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<td>NS</td>
<td>NS</td>
</tr>
</tbody>
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Source wells are: NLP-IW1I, NLP-IW4I, HMF-MW51

Source well average concentration (µg/L) 3,213 5,480 445 166 171 112 1,588 2,960 174

Source area remaining soluble mass (lbs) 2.26 3.86 0.31 0.12 0.12 0.08 1.12 2.08 0.12

Source area removal from baseline (%) 98.86 98.06 99.84 99.94 99.96 99.44 98.95 99.94
Table 3-1. Groundwater TCFM Data Summary by Sampling Event (continued)

<table>
<thead>
<tr>
<th>Monitoring Well</th>
<th>Forty-Sixth Month (July-09)</th>
<th>Forty-Eighth Month (Sept-09)</th>
<th>Forty-Ninth Month (Oct-09)</th>
<th>Fiftieth Month (Nov-09)</th>
<th>Fifty-First Month (Dec-09)</th>
<th>Fifty-Second Month (Jan-10)</th>
<th>Fifty-Third Month (Feb-10)</th>
<th>Fifty-Fourth Month (Mar-10)</th>
<th>Fifty-Sixth Month (May-10)</th>
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<td>155</td>
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<td>NS</td>
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<td>507</td>
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<td>NS</td>
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<td>NS</td>
<td>NS</td>
<td>0.4 U</td>
<td>NS</td>
</tr>
</tbody>
</table>

Source wells are: NLP-IW1I, NLP-IW4I, HMF-MW51

- Source well average concentration (µg/L): 525 7,706 7,371 8,127 2,547 67 232 55 284
- Source area remaining soluble mass (lbs): 0.37 5.43 5.19 5.72 1.79 0.05 0.16 0.04 0.20
Table 3-1. Groundwater TCFM Data Summary by Sampling Event (continued)

<table>
<thead>
<tr>
<th>Monitoring Well</th>
<th>Fifty-Eighth Month (July-10)</th>
<th>Fifty-Ninth Month (Aug-10)</th>
<th>Sixtieth Month (Sept-10)</th>
<th>Sixty-Third Month (Dec-10)</th>
<th>Sixty-Sixth Month (Mar-11)</th>
<th>Sixty-Ninth Month (Jun-11)</th>
<th>Seventy-Second Month (Sept-11)</th>
<th>Seventy-Fifth Month (Dec-11)</th>
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<td>296</td>
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</table>

Source wells are: NLP-IW11, NLP-IW41, HMF-MW51

Source well average concentration (µg/L) 1,677 1,717 1,265 952 462 1,024 2,443 3,222 243
Source area remaining soluble mass (lbs) 1.18 1.21 0.89 0.67 0.33 0.72 1.72 2.27 0.17
Source area removal from baseline (%) 99.40 99.39 99.55 99.66 99.84 99.64 99.13 98.86 99.91
### Table 3-1. Groundwater TCFM Data Summary by Sampling Event (continued)

<table>
<thead>
<tr>
<th>Monitoring Well</th>
<th>Eighty-First Month (June-12)</th>
<th>Eighty-Sixth Month (Nov-12)</th>
<th>Eighty-Seventh Month (Dec-12)</th>
<th>Ninetieth Month (Mar-13)</th>
<th>Ninety-Third Month (Jun-13)</th>
<th>Ninety-Sixth Month (Sept-13)</th>
<th>Ninety-Ninth Month (Dec-13)</th>
<th>101st Month (Pre-Startup Baseline) (Feb-14)</th>
<th>102nd Month (Mar-14)</th>
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<tbody>
<tr>
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Source wells are: NLP-IW1I, NLP-IW4I, HMF-MW51

Source well average concentration (µg/L) 3,084 NA 43 98 514 2,260 3,444 NA 104
Source area remaining soluble mass (lbs) 2.17 NA 0.03 0.07 0.36 1.59 2.43 NA 0.07
Source area removal from baseline (%) 98.91 NA 99.98 99.97 99.82 99.20 98.78 NA 99.96
Table 3-1. Groundwater TCFM Data Summary by Sampling Event (continued)

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Source wells are: NLP-IW1I, NLP-IW4I, HMF-MW5I

- Source well average concentration (µg/L): 941, 1,834
- Source area remaining soluble mass (lbs): 0.66, 1.29
- Source area removal from baseline (%): 99.67, 99.35

Bolded results indicate TCFM greater than GCTL of 2,100 µg/L.

Shaded area indicates TCFM greater than the MNA-DV of 21,000 µg/L.

NS - Well not sampled or not installed at time of sampling effort.

1 Additional sampling results from January 2006:

- Free Product TCFM Results:
  - Water above product: HMF-GW-PROD-IW1I = 814,000 230 µg/L
  - Product: HMF-PRODUCT-IW1I = 813,000,000 µg/L

Supplemental sampling based on free product identification.

  - M7-1411-IW1D: TCFM = 1.7 I µg/L
  - NLP-IW1D: TCFM = 0.5 U µg/L

Deep well NLP-IW1D TCFM Results:
- Sept-06 Annual: 9.2 µg/L
- Mar-07 Semi-annual: 82.5 µg/L
- Sept-07 Annual: 6.8 µg/L
- Mar-08 Semi-annual: 29.8 µg/L
- Sept-08 Annual: 167 µg/L
- Mar-09 Semi-annual: 0.50 U µg/L
- Sept-09 Annual: 0.50 U µg/L
- Mar-10 Semi-annual: 0.40 U µg/L
- Sept-10 Annual: 0.40 U µg/L
- Sept-11 Annual: 0.50 U µg/L
- Sept-13 Annual: 0.50 U µg/L
- Sept-14 Annual: 10.3 µg/L

February 2014 Sparging Well Results:
- HMF-ASW-34: 79.8 µg/L
- HMF-ASW-38: 20.8 µg/L
- HMF-ASW39: 4,160 µg/L
Table 3-2. Groundwater Data Summary by Monitoring Well

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Bolded values indicate TCFM results greater than the GCTL (2,100 µg/L).
Shaded cells indicate TCFM results greater than the MNA-DV (21,000 µg/L).
NA = Not analyzed.
U = Not detected.
E = Above calibration range.
I = Result is less than or equal to method detection limit but less than reporting limit.
L = Exceeds calibration limit.
Figure 3-2
TCFM Concentrations Versus Time

Baseline Sampling Event

System Expansion (18th Month)

12th Month

24th Month

48th Month

60th Month

72nd Month

81st Month

99th Month

Sampling Date

TCFM Concentration (µg/L)
Figure 3-4
Year 9 TCFM Concentrations Versus Time
SECTION 4

OBSERVATIONS AND RECOMMENDATIONS

This section provides observations about the results from the ninth year of CMI and recommendations based on these observations.

During the project’s ninth year, a pre-startup sampling event was conducted in February 2014 prior to restarting the air sparging system, and three quarterly groundwater monitoring events were conducted in March, July, and September 2014. NLP-IW4I and three air sparging wells (ASW-34, ASW-38, and ASW-39) were sampled in February 2014. Groundwater sampling was conducted at the three source area wells (NLP-IW1I, NLP-IW4I, and HMF-MW5I) and the shallow well (NLP-IW1S) during the March, July, and September events. During the September 2014 event, nine wells were sampled, including the three source areas wells and shallow well, deep well NLP-IW1D, and perimeter wells HMF-MW6I, HMF-MW7I, HMF-MW8I, and HMF-MW9I.

Periodic operation of the air sparging system at HMF between 2005 and 2010 removed a significant amount of TCFM, as evidenced by groundwater sampling results. While the system was operational during the fourth and fifth years of implementation (2008 and 2009), TCFM concentrations in the source area decreased to less than the GCTL; however, during periods when the system was off line, TCFM concentrations greater than the GCTL were detected in the source area. At the KSCRT meeting in October 2011, the team reached consensus to install additional sparging wells and to conduct additional air sparging to address rebounding TCFM concentrations in the NLP-IW4I area, with the objective of site closure. The modified system included three additional sparging wells and with flow concentrated in the NLP-IW4I area and operated from October 2012 to March 2013, when operations were discontinued based on two rounds with TCFM concentrations less than the GCTL in all wells. However, concentrations at NLP-IW4I increased to greater than the GCTL in September 2013 and increased further in December 2013.
As stated in Section 2, KSCRT consensus in February 2014 included operation of the system for 5 months, with sparging concentrated in the NLP-IW4I area and a likely transition to long-term monitoring only if rebounding occurred after the 5 months of operation. Based on rebounding at NLP-IW4I and HMF-MW5I, consensus was reached at the November 2014 KSCRT meeting to conduct an additional year of quarterly monitoring, in December 2014 and March, June, and September 2015, and if TCFM concentrations continue to exceed the GCTL, a long-term monitoring plan will be developed for continued monitoring. If concentrations decrease to and remain less than the GCTL in all wells, no further action will be considered.

Based on KSCRT consensus at the February 2014 meeting, NLP-IW4I can continue to be used as a monitoring well and can again be used as a compliance well 1 year after the end of active remediation (July 2015). Quarterly monitoring will include sampling of three source area wells (NLP-IW1I, NLP-IW4I, and HMF-MW5I) and the shallow well (NLP-IW1S) during each quarterly event, with the addition of the four perimeter wells (HMF-MW6I through HMF-MW9I) and the deep well (NLP-IW1D) during the comprehensive sampling event (third quarter) in September 2014. A quarterly sampling event was conducted in December 2014, and the next event is scheduled for March 2015.
SECTION 5

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APPENDIX A

SYSTEM OPERATION CALENDAR
## September 2005

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## October 2005

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Green shading identifies that the system is operational.
Peach shading identifies that the system is not operational.
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Green shading identifies that the system is operational.
Peach shading identifies that the system is not operational.
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**Green shading identifies that the system is operational.**
**Peach shading identifies that the system is not operational.**
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- **Green shading** identifies that the system is operational.
- **Peach shading** identifies that the system is not operational.
### September 2006

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Green shading identifies that the system is operational.
Peach shading identifies that the system is not operational.
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Green shading identifies that the system is operational.
Peach shading identifies that the system is not operational.
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*Peach shading identifies that the system is not operational.*

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*Green shading identifies that the system is operational.*

*Peach shading identifies that the system is not operational.*
### March 2007

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**Green shading identifies that the system is operational.**

**Peach shading identifies that the system is not operational.**
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Green shading identifies that the system is operational. Peach shading identifies that the system is not operational.

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**Peach shading identifies that the system is not operational.**

**Green shading identifies that the system is operational.**

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**Peach shading identifies that the system is not operational.**

**Green shading identifies that the system is operational.**
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- Green shading identifies that the system is operational.
- Peach shading identifies that the system is not operational.

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**Green shading identifies that the system is operational.**

**Peach shading identifies that the system is not operational.**

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*Green shading identifies that the system is operational.*

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# January 2008

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System eval then OFF for GW sampling

# February 2008

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Green shading identifies that the system is operational.
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## March 2008

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**Note:** Green shading identifies that the system is operational. Peach shading identifies that the system is not operational.

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**Note:** Green shading identifies that the system is operational. Peach shading identifies that the system is not operational.
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Green shading identifies that the system is operational.
Peach shading identifies that the system is not operational.
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Green shading identifies that the system is operational.

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Green shading identifies that the system is operational.

Peach shading identifies that the system is not operational.
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**November 2008**

**December 2008**

Green shading identifies that the system is operational.
Peach shading identifies that the system is not operational.
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Peach shading identifies that the system is not operational.

GW Sampling Conducted

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Green shading identifies that the system is operational.
Peach shading identifies that the system is not operational.

System Evaluation Conducted
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Green shading identifies that the system is operational.
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Green shading identifies that the system is operational.
Peach shading identifies that the system is not operational.
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**Green shading identifies that the system is operational.**

**Peach shading identifies that the system is not operational.**

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**Green shading identifies that the system is operational.**

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Green shading identifies that the system is operational. Peach shading identifies that the system is not operational.
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**GW Sampling Conducted**

**System Turned ON / Air Sampling and System Evaluation Conducted**

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**Green shading identifies that the system is operational.**

**Peach shading identifies that the system is not operational.**

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**December 2009**

Green shading identifies that the system is operational.
Peach shading identifies that the system is not operational.
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Green shading identifies that the system is operational.
Peach shading identifies that the system is not operational.

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Green shading identifies that the system is operational.
Peach shading identifies that the system is not operational.
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June 2010

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*Green shading identifies that the system is operational.*
*Peach shading identifies that the system is not operational.*
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**Green shading** identifies that the system is operational.

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Green shading identifies that the system is operational.
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Green shading identifies that the system is operational.
Peach shading identifies that the system is not operational.

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April 2011

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**Mowing and Site Maintenance**

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Green shading identifies that the system is operational.
Peach shading identifies that the system is not operational.
### Notes:

November 2011 - Team agreement on what the system expansion should look like.
Waiting for 2012 funding to become available to move forward.

Received RFP for TD-02 for system expansion.

December 16, 2011 - quarterly sampling verified contamination still exists in MW-04I.

October 2011 HMF Presentation - proposed system expansion to address residual contamination.

POP Extension - Mod 3. 2011 Milestones:

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Notes:

2011 Milestones:
October 2011 HMF Presentation - proposed system expansion to address residual contamination.
November 2011 - Team agreement on what the system expansion should look like.
December 16, 2011 - quarterly sampling verified contamination still exists in MW-04I.
Waiting for 2012 funding to become available to move forward.
~ February 2012 ~

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<td><strong>TD-02 Funding obtained for trailer modification and system expansion and operation. Modification #4.</strong></td>
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<td><strong>Submitted Site Plan Request files for HMF system expansion.</strong></td>
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<td><strong>Began preparation of HASP addendum for system expansion.</strong></td>
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<td><strong>Source well sampling (Initially planned as baseline sampling event)</strong></td>
<td><strong>Three previous quarters above GCTL. Moving forward with trailer relocation while discussing path forward.</strong></td>
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<td>Status update e-mail: Procure electric sub. Resample after rain event. Procure driller but keep on hold. Submit HASP.</td>
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<td>Power outage for trailer disconnection at FDTL. Electric disconnected from trailer.</td>
<td>Some rain; discussed resampling of MW-04I and relocation of trailer.</td>
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## HASP Rev 2 for HMF Expansion and Ongoing Efforts

- Final SSSP approved by KSC.
- Relocation of trailer from FDTL to HMF. Site and trailer cleaning and maintenance.
- HASP Rev 2 for HMF expansion and ongoing efforts. Final SSSP approved by KSC.
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<td>Still very dry; decision to sample toward end of month with hope of rain.</td>
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<td>Quarterly source area well sampling (new baseline). MW-04I rebound above GCTL.</td>
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- Site Plan approved for HMF system expansion.
- HASP posted to RIS
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<td>June results obtained. Direction to proceed with system expansion and connections.</td>
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<td>Set up well installation for 8/22/12. Utility clearance and well screen procurement. Dig permit. Test bores oversight.</td>
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<td>Soil borings and well installation activities.</td>
<td>Well installation completed.</td>
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<td>New electric contract for system connection.</td>
<td>Began new well system connections.</td>
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No quarterly sampling conducted in September. Next sampling effort after system startup. Using June 21, 2012, effort as baseline.

System connection completed.
Resolving transformer delivery issue.
Notes:
Initial system evaluation.
Trailer control panel bypassed and ordered new key pad. System turned on. Intermediate wells and two new wells operational.

Testing indicating problem with using existing trailer compressor for deep wells.

Deep wells off line.

System still not fully operational - only periodical operation.

System Operational
Deep wells off line.

System startup attempted. Issue with control panel turning off system. Talking with vendor to resolve issues.
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<td>Ordered compressor for deep well operation.</td>
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<td>MW-01I blew cap and resulted in water spurting in air. Cap replaced.</td>
<td>System evaluation</td>
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<td>Three legs operational. See notes box.</td>
<td>Full operation</td>
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<td>System evaluation</td>
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System evaluation

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System evaluation

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System turned back on after sampling effort completed.

System turned off prior to sampling of four source area wells.

Bubbling in MW01I so turned off ASW-37 near this MW.

Installed replacement key pad touch screen.

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**Notes:**
- Running ASW-11 only to maximize CFM to deep well for couple days and then switching to running just ASW-40 for couple days and then both (ASW-11 and ASW-40) for few days and keep rotating.
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**Notes:**

- Starting 2/22/13, running ASW-11 only to maximize CFM to deep well for couple days and then switching to running just ASW-40 for couple days and then both (ASW-11 and ASW-40) for few days and keep rotating.
- Installed valve for ASW11/ASW40. Turned off ASW40. Turned on ASW37 to address increase at IW1S.
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March results obtained. All results below GCTL. System to remain OFF
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Source Area monitoring well sampling effort.
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Groundwater sampling conducted. Source and perimeter wells sampled.
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Notes:

September GW results obtained. IW4I had rebound above GCTL. All other wells below GCTL.

Decision made to keep system off to see what concentration in HMF-4I does.

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- Source area sampling event.
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**Note:** KSCRT consensus at February 2014 meeting to restart system for 5 months of operation concentrating sparging on NLP-IW4I area. NLP-IW4I used as sparging well. NLP-IW4I and ASW-11 combined continuous 4-day operation once per month (6 days in June) and then rotating 2-day continuous operation of deep sparge wells ASW-7, -11, -15, and -38, shallow sparge wells ASW-34, -35, -39, and NLP-IW4I.

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Presentation on HMF results to KSC Remediation Team.

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Pre-Startup Baseline Sampling - NLP-IW4I and ASW-34, 38, and 39

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System startup Electric meter reading

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Sparging of NLP-IW4I and ASW-11

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- **Sparging of ASW-39**: Sparging of ASW-39.
- **System off for sampling**: Source area monitoring well sampling event.
- **Electric meter reading**: Electric meter reading.
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- **21** October: Annual groundwater sampling event - source area and perimeter wells.
- **28** October: Electric meter reading.
APPENDIX B

FIELD LOGBOOK
2/13/14  Sample  
9L 8B 2W, 2525

0800 Time on 5L calibrated sample

8L 8L C 0500 - 0520 Sample time 0525
IDC 20L

Ass 34 Purple 0930 - 1010 Sample time 1015
IDC 20L

Ass 38 Purple 1045 - 1120 Sample time 1125
IDC 22

Ass 39 Purple 1132 - 1150 Sample time 1155
IDC 20

Sample Pack: 01 Ion
Picked up by: D. Curtis
Counter: 2/14/14

Total IDC: 8L
Pallet: 185304

Work continued to Page
2-22 14

0900 AM at a site called Egypt

MW 12 page 0535 - 0555 Sample Time 1000

MW 1D page 1050 - 1110 Sample Time 1115

MW 1D page 1115 - 1205 Sample Time 1210

MW 5I page 1235 - 1255 Sample Used

Samples Filled on Ice
Picked up 3-28 14

Work continued to Page

Restart System on ASW 39

3-31 AM 7
Sept 2014 GW Sampling HMF KSC
Weather 85°F Rainy, Clouds, Wet
YSI cali. sn#12A100316
Cond 1413 mS/cm Pre 1.668 post 1.413
DO% 762.3 Pre 108.2 post 100.3
ORP 240.0 mV Pre 253.2 post 240.0
pH 7.0 Pre 7.06 post 7.0
<1.0 Pre 4.60 post 4.0
10.0 Pre 9.90 post 9.98

Lamotte 2020 SN# 2286-0721
1 NTU Pre 0.98 Post 1.00
10 NTU Pre 6.9 Post 10.00

8:15 Set up on well # HMF-MW000537.0-20140923
8:30 Initiated purge
8:55 End purge Collect Sample

9:00 Set up on well # HMF-NLP-MW004-037.5-20140923
9:05 Initiated purge
9:25 End purge Collect Sample
9:38 Set up on well # HMF-NLP-MW001-037.5-20140923
9:40 Initiated purge
10:00 End purge Collect Sample
10:05 Collect Sample

IDW 3.5
IDW 2.5
IDW 2.5
07-10-2014  GWS  HMIF  KSC
weather humid 74°
07:00  calibrate equipment

YSI

orp  Pre 190  Post 208
Cond  Pre 1440  Post 1489
DO  Pre 1419.0  Post 99.82
PH  Pre 7.00  Post 7.00
   Pre 4.00  Post 4.00
   Pre 10.00  Post 9.96

Lamotech 2020
   1 NTU  Pre 3.78  Post 1.00
   10 NTU  Pre 7.9  Post 10.00

8:50  set up on well HMIF-NLP: mw 0004-037.5-20140706
9:00  initiated purge
9:20  End purge
9:25  Collect sample

Data  174.120
07.10.2014  GWS  HMF  KSC

9:40  Set up on well HMF-mu0005-037.5-20140710
9:45  Initiate purge
10:10  End purge
10:12  Collect sample

10:30  Set up on well HMF-NLP-mu001-037.5-20140710
16:40  Initiate purge
11:05  End purge
11:18  Collect sample

11:18  Set up on well HMF-NLP-mu0001-010.5-20140710
11:20  Initiated purge
11:45  End purge
11:50  Collect sample
Sept 23 - 2014  GW Sampling  HMF  KSC

10:10  Set up on well# HMF-NLP-MW0001-008.5-20140923
10:15  Initiated purge
10:35  End purge  collect Sample
10:40  IDW  2.5

10:50  Set up on well# HMF-NLP-MW0001-050.5-20140923
10:55  Initiated purge
11:10  End purge  collect Sample
11:20  IDW  2.5

11:25  Set up on well# HMF-MW0009-037.5-20140923
11:30  Initiated purge
11:45  End purge  collect Sample
11:50  IDW  2.5

12:00  Set up on well# HMF-MW0007-037.5-20140923
12:05  Initiated purge
12:25  End purge  collect Sample
12:30  IDW  2.5

12:50  Set up on well# HMF-MW0006-037.5-20140923
13:00  Initiated purge
13:20  End purge  collect Sample
13:30  IDW  2.5

13:40  Set up on well# HMF-MW0006-037.5-20140923
13:45  Initiated purge
14:05  End purge  collect Sample
14:10  IDW  2.5

Total IDW for 20140923  21.5 L
APPENDIX C

GROUNDWATER CHAIN-OF-CUSTODY FORMS
AND SAMPLE LOG SHEETS
GROUNDWATER CHAIN-OF-CUSTODY FORMS
<table>
<thead>
<tr>
<th>DATE</th>
<th>TIME</th>
<th>SAMPLE ID</th>
<th>MATRIX</th>
<th>GRAB (G)</th>
<th>COMP (C)</th>
<th>NO. OF CONTAINERS</th>
<th>TYPE OF ANALYSIS</th>
<th>CONTAINER TYPE (P) or GLASS (G)</th>
<th>PRESERVATIVE USED</th>
<th>COMMENTS</th>
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<td>1021</td>
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<td>Plastic (P) or Glass (G)</td>
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   DATE: 5/4
   TIME: 8:30

2. RELINQUISHED BY: [Signature]
   DATE: 6/14
   TIME: 12:30

3. RELINQUISHED BY: [Signature]
   DATE: 6/14
   TIME: 12:30

COMMENTS: ...
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<tr>
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<th>No. of Containers</th>
<th>Type of Analysis</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>7/13 0525</td>
<td>HMFE-DEM 24-30-0325-20140313</td>
<td>3</td>
<td>3260</td>
<td>*12FM only</td>
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<tr>
<td>7/13 1015</td>
<td>HMFE-ASU 24-40-30140320</td>
<td>2</td>
<td>3260</td>
<td></td>
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<tr>
<td>7/13 1125</td>
<td>HMFE-ASU 38-31-20140315</td>
<td>6</td>
<td>3260</td>
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<tr>
<td>7/13 1135</td>
<td>HMFE-ASU 38-35-20140315</td>
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1. RELINQUISHED BY: [Signature]
   DATE: 02/14/14  TIME: 10:45

2. RELINQUISHED BY: [Signature]
   DATE: 02/14/14  TIME: 10:45

3. RELINQUISHED BY: [Signature]
   DATE: 02/14/14  TIME: 10:45

COMMENTS: [Signature]
### Accutest Laboratories Southeast
#### Chain of Custody

**Company Name:** [Redacted]  
**Project Name:** BSC - HME  
**Project Contact:** [Redacted]  
**Phone:** 407-521-2079  
**Sample(s) Name(s) (Printed):** [Redacted]

<table>
<thead>
<tr>
<th>Field ID / Point of Collection</th>
<th>COLLECTION</th>
<th>CUSTOMER INFORMATION</th>
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<tr>
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<td>DATE</td>
<td>TIME</td>
</tr>
<tr>
<td>1. HME - 01/12/2023 - 02:25</td>
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<td></td>
</tr>
<tr>
<td>2. HME - 01/12/2023 - 02:25</td>
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</tr>
<tr>
<td>3. HME - 01/12/2023 - 02:25</td>
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<td>4. HME - 01/12/2023 - 02:25</td>
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**Turnaround Time (Business Days):**

- **10 Days Standard**
- **COMMERCIAL "A" (RESULTS ONLY)**
- **COMMERCIAL "B" (RESULTS PLUS QC)**
- **RED1 (EPA LEVEL 3)**
- **FULT1 (EPA LEVEL 4)**
- **EDDS**

**Data Deliverable Information**

- **Comment / Remarks:** [Redacted]

**Sample Custody must be documented by each time sample changes possession, including courier delivery**

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<thead>
<tr>
<th>Reissued by Sampler:</th>
<th>Date Time:</th>
<th>Received By:</th>
<th>Date Time:</th>
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<tr>
<td></td>
<td>10:40</td>
<td></td>
<td></td>
<td></td>
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**Lab Use Only:**  
- Custody Seal in Place: Y N  
- Temp Blank Provided: Y N  
- Preserved where Applicable: Y N  
- Total # of Coolers: 1  
- Cooler Temperature (°C): 3.0
### Accutest Laboratories Southeast

#### Chain of Custody

**Accutest JO#**

4405 Vineland Road, Suite C-15 - Orlando, FL 32811  
TEL. 407-425-6700  •  FAX. 407-425-0707

**www.accutest.com**

---

**Company Name:**

**Address:**

**City:**

**State:**

**Zip:**

**Project Name:**

**Contact:**

**Fax #:**

---

**Sampler(s) Name(s) Printed:**

---

**Field ID / Point of Collection**

<table>
<thead>
<tr>
<th>Field ID / Point of Collection</th>
<th>Sampled By</th>
<th>Matrix</th>
<th>TOTAL # of Bottles</th>
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<td>RI G0</td>
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<td>X</td>
</tr>
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<td>2 HM-P-01.0001-0375-2014-0505</td>
<td>RI G0</td>
<td>3</td>
<td>X</td>
</tr>
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<td>RI G0</td>
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<td>X</td>
</tr>
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**Sample Custody must be documented below each time samples change possession, including courier delivery.**

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<thead>
<tr>
<th>Replenished by Sampler:</th>
<th>Date / Time:</th>
<th>Received By:</th>
<th>Date / Time:</th>
<th>Received By:</th>
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</thead>
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<tr>
<td>Bonnie E. Sutton.</td>
<td>9-24-11 11:35</td>
<td>2 Michael L.</td>
<td>02-24-14 16:45</td>
<td>4 Richard L.</td>
</tr>
</tbody>
</table>

---

**Lab Use Only:** Custody Seal in Place: Y N  
Temp Blank Provided: Y N  
Preserved where Applicable: Y N  
Total # of Coolers:  
Cooler Temperature (s) Celsius:
SAMPLE LOG SHEETS
**Tetra Tech NUS / FDEP Groundwater Sampling Sheet**

**SITE NAME:** Hypergol Maintenance Facility (HMF)  
**SITE LOCATION:** John F. Kennedy Space Center (KSC)  
**WELL NO:** W-41  
**SAMPLE ID:** HMF-NLP-MW0004-037.5-20140213  
**DATE:** 2-13-14

### PURGING DATA

| WELL DIAMETER (in): 1 | TUBING DIAMETER (inches): 3/16 | WELL SCREEN INTERVAL DEPTH: 35.00 ft. to 40.00 ft | STATIC DEPTH TO WATER (ft): | PURGE PUMP TYPE: Peristaltic Pump

**WELL VOLUME PURGE:**  
**EQUIPMENT VOLUME PURGE:**

| INITIAL PUMP OR TUBING DEPTH IN WELL (feet): | FINAL PUMP OR TUBING DEPTH IN WELL (feet): | PURGE INITIATED AT: | PURGE ENDED AT: | TOTAL VOLUME PURGED (Liters): 2.0

<table>
<thead>
<tr>
<th>TIME</th>
<th>VOLUME PURGED (Liters)</th>
<th>CUMUL VOLUME PURGED (Liters)</th>
<th>PURGE RATE (ml/m)</th>
<th>DEPTH TO WATER (ft)</th>
<th>TEMP. (°C)</th>
<th>COND. (μS/cm)</th>
<th>DISSOLVED OXYGEN (mg/L)</th>
<th>TURBIDITY (NTU)</th>
<th>ORP (mV)</th>
<th>COLOR</th>
</tr>
</thead>
<tbody>
<tr>
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<td>-</td>
<td>0.0</td>
<td>0.00</td>
<td>0.00</td>
<td>0.0</td>
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<td>-</td>
</tr>
<tr>
<td>0:15</td>
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<td>3.60</td>
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<tr>
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<td>28.3</td>
<td>4.237</td>
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<tr>
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<td>0.54</td>
<td>32.8</td>
<td>4.078</td>
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<td>21.3</td>
<td>11</td>
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<tr>
<td>0:55</td>
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<td>0.45</td>
<td>35.8</td>
<td>4.041</td>
<td>2.45</td>
<td>8.2</td>
<td>21.0</td>
<td>11</td>
<td>White</td>
</tr>
</tbody>
</table>

**WELL CAPACITY (Gallons Per Foot):** 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88  
**TUBING INSIDE DIAM. CAPACITY (Gallons Per Foot):** 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

### SAMPLING DATA

- **SAMPLED BY (PRINT) / AFFILIATION:**  
- **TINUS:**  
- **SIGNATURES:**  
- **SAMPLING INITIATED AT:** 07/20  
- **SAMPLING ENDED AT:** 07/25  
- **PUMP OR TUBING DEPTH IN WELL (feet):**  
- **SAMPLE PUMP FLOW RATE (mL per minute):**  
- **TUBING MATERIAL CODE:** Teflon  
- **FIELD DECONTAMINATION:**  
- **FIELD-FILTERED:**  
- **FILTER SIZE:** μm  
- **FILTERATION EQUIPMENT Type:**  
- **SAMPLE CONTAINER SPECIFICATION:**  
- **SAMPLE PRESERVATION:**  
- **TOTAL VOL ADDED IN FIELD (mL):**  
- **FINAL pH:**  
- **INTENDED ANALYSIS AND/OR METHOD:**  
- **SAMPLE PREPARATION CODE:**  

**SAMPLE ID CODE: PP**  
**# CONTAINERS:** 3  
**MATERIAL CODE:** CG  
**VOLUME:** 40 mL  
**PRESEVATIVE USED:** HCL  
**TOTAL VOL ADDED IN FIELD (mL):**  
**FINAL pH:** <2  
**INTENDED ANALYSIS AND/OR METHOD:** Select VOCs (TCFM) /8260B  
**SAMPLE PREPARATION CODE:** RFPP

**REMARKS:***

**MATERIAL CODES:**  
- **AG = Amber Glass;**  
- **CG = Clear Glass;**  
- **PE = Polyethylene;**  
- **PP = Polypropylene;**  
- **S = Silicone;**  
- **T = Teflon;**  
- **O = Other (Specify)***

**SAMPLING/PURGING CODES:**  
- **APP = After Peristaltic Pump;**  
- **B = Bailer;**  
- **BP = Bladder Pump;**  
- **ESP = Electric Submersible Pump;**  
- **PP = Peristaltic Pump**

**EQUIPMENT CODES:**  
- **RFPP = Reverse Flow Peristaltic Pump;**  
- **SM = Straw Method (Tubing Gravity Drain);**  
- **VT = Vacuum Trap;**  
- **O = Other (Specify)***
**Tetra Tech NUS / FDEP Groundwater Sampling Sheet**

**SITE**
- **NAME:** Hypergol Maintenance Facility (HMF)
- **LOCATION:** John F. Kennedy Space Center (KSC)
- **SAMPLE ID:** HMF-ASW39-35-20140213
- **DATE:** 2-13-2014
- **WELL NO:** ASW39
- **PURGE PUMP TYPE**
  - **PURGE PUMP TYPE:** Peristaltic Pump
- **PURGE PUMP TYPE**
  - **PURGE PUMP TYPE:** Peristaltic Pump

**PURGING DATA**

**WELL VOLUME PURGE:**
- **WELL VOLUME:** (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) x WELL CAPACITY
- **WELL CAPACITY:** Liters

**EQUIPMENT VOLUME PURGE:**
- **EQUIPMENT VOL. = PUMP VOLUME X TUBING CAPACITY**
- **TUBING LENGTH:** Liters

**INITIAL PUMP OR TUBING DEPTH IN WELL**
- **DEPTH IN WELL (feet):** 3

**FINAL PUMP OR TUBING DEPTH IN WELL**
- **DEPTH IN WELL (feet):** 2

- **TIME**
- **VOLUME PURGED (Liters)**
- **CUMUL VOLUME PURGED (Liters)**
- **PURGE RATE (mLpm)**
- **DEPTH TO WATER (ft)**
- **pH (standard units)**
- **TEMP. (°C)**
- **COND. (µS/cm)**
- **DISSOLVED OXYGEN (mg/L)**
- **TURBIDITY (NTU)**
- **ORP (mV)**
- **COLOR**

<table>
<thead>
<tr>
<th>Time</th>
<th>Volume Purged</th>
<th>Cumul Volume Purged</th>
<th>Purge Rate</th>
<th>Depth to Water</th>
<th>pH</th>
<th>Temp</th>
<th>Cond</th>
<th>DO</th>
<th>Turbidity</th>
<th>ORP</th>
<th>Color</th>
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</table>

**Sample Time:** 1155

**WELL CAPACITY (Gallons Per Foot):**
- 0.75" = 0.02
- 1" = 0.04
- 1.25" = 0.06
- 2" = 0.16
- 3" = 0.37
- 4" = 0.65
- 5" = 1.02
- 6" = 1.47
- 12" = 5.88

**TUBING INSIDE DIA. CAPACITY (Gal./ft):**
- 1/8" = 0.0006
- 3/16" = 0.0014
- 1/4" = 0.0026
- 5/16" = 0.004
- 3/8" = 0.006
- 1/2" = 0.010
- 5/8" = 0.010

**SAMPLING DATA**

**SAMPLED BY (PRINT) / AFFILIATION:**
- **TINUS/**

**SAMPLER(S) SIGNATURES:**
- **SAMPLER INITIATED AT:**
- **SAMPLER ENDED AT:**

**PUMP OR TUBING DEPTH IN WELL**
- **DEPTH IN WELL (feet):** 7

**FIELD DECONTAMINATION**
- **FIELD FILTERED:** Y
- **FILTER SIZE:** µm

**SAMPLE CONTAINER SPECIFICATION**
- **SAMPLE CONTAINER:** PP
- **SS CONTAINERS:** 3
- **MATERIAL CODE:** CG
- **VOLUME:** 40 mL

**SAMPLE PRESERVATION**
- **PRESEVEVED:** HCL
- **TOTAL VOL ADDED IN FIELD:** mL
- **FINAL PH:** <2

**INTENDED ANALYSIS AND/OR METHOD:**
- **Select VOCs (TCFM) /8260B**

**SAMPLING EQUIPMENT CODE:**
- **RFPP**

**REMARKS:**

**MATERIAL CODES:**
- **AG = Amber Glass**
- **CG = Clear Glass**
- **PE = Polyethylene**
- **PP = Polypropylene**
- **S = Silicone**
- **T = Teflon**
- **O = Other (Specify)**

**SAMPLING/PURGING CODES:**
- **APP = After Peristaltic Pump**
- **B = Bailer**
- **BP = Bladder Pump**
- **ESP = Electric Submersible Pump**
- **PP = Peristaltic Pump**

**EQUIPMENT CODES:**
- **RFPP = Reverse Flow Peristaltic Pump**
- **SM = Straw Method (Tubing Gravity Drain)**
- **VT = Vacuum Trap**
- **O = Other (Specify)**
### Purging Data

<table>
<thead>
<tr>
<th>Time</th>
<th>Volume Purged (Liters)</th>
<th>Cumul. Volume Purged (Liters)</th>
<th>Purge Rate (mlpm)</th>
<th>Depth to Water (ft)</th>
<th>Temp. (°C)</th>
<th>Cond. (µS/cm)</th>
<th>Dissolved Oxygen (mg/L)</th>
<th>Turbidity (NTUs)</th>
<th>ORP (mv)</th>
<th>Color</th>
</tr>
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<tbody>
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</tr>
</tbody>
</table>

#### Sampling Data

- **Sampled by (Print)/Affiliation: S. S.**
- **Sampler/Signatory:**
  - **Sample pump initiated at:** 1100
  - **Sample pump ended at:** 1100
  - **Pump or tubing depth in well (foot):**
  - **Field-decontamination:** N
  - **Filter size:**
  - **MS/MSD:** Y

<table>
<thead>
<tr>
<th>Sample Container Specification</th>
<th>Sample Preservation</th>
<th>Intended Analysis and/or Method</th>
<th>Sampling Equipment Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Sample Code</strong></td>
<td><strong>Containers</strong></td>
<td><strong>Material Code</strong></td>
<td><strong>Volume</strong></td>
</tr>
<tr>
<td>PP</td>
<td>3</td>
<td>CG</td>
<td>40 mL</td>
</tr>
</tbody>
</table>

#### Remarks:

- **Material Codes:** AG = Amber Glass, CG = Clear Glass, PE = Polyethylene, PP = Polypropylene, S = Silicone, T = Teflon, O = Other (Specify)
- **Sampling/Purging:** APP = After Peristaltic Pump, B = Bailer, BP = Bladder Pump, ESP = Electric Submersible Pump, PP = Peristaltic Pump
- **Equipment Codes:** RFPP = Reverse Flow Peristaltic Pump, SM = Straw Method (Tubing Gravity Drain), VT = Vacuum Trap, O = Other (Specify)
### Purging Data

**Well Diameter (in):** 1  
**Tubing Diameter (inches):** 3/16  
**Well Screen Interval:** DEPTH 40.00  
**Static Depth to Water (ft):** 516  
**Purge Pump Type or Bailer:** Peristaltic Pump  
**Well Volume Purge:** 1  
**Equipment Volume Purge:** 1  

<table>
<thead>
<tr>
<th>Time</th>
<th>Volume Purged (Liters)</th>
<th>Cumul Volume Purged (Liters)</th>
<th>Purge Rate (ml/min)</th>
<th>Depth to Water (ft)</th>
<th>pH (Standard Units)</th>
<th>Temp. (°C)</th>
<th>Cond. (μS/cm)</th>
<th>Dissolved Oxygen (mg/L)</th>
<th>TURBIDITY (NTUs)</th>
<th>ORP (mV)</th>
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<tr>
<td>00:00</td>
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<td>15</td>
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<td>634</td>
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<td>15.9</td>
<td>15.7</td>
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<td>2.0</td>
<td>15.9</td>
<td>15.7</td>
<td>-</td>
</tr>
</tbody>
</table>

**Well Capacity (Gallons Per Foot):** 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88  
**Tubing Inside Dia. Capacity (Gal./ft):** 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

### Sampling Data

**Sampled By (Print)/Affiliation:**  
**Sampler/Signatures:**  
**Sampling Initiated:** 05/15  
**Sampling Ended:** 05/16  
**Flow Rate (ml per minute):**  
**Tubing Material Code:** Teflon  
**Field Decontamination:** N  
**Field Filtered:** Y  
**Filter Size:**  
**Sample Preservation:**  
**Intended Analysis and/or Method:** Select VOCs (TCF/M) /8260B  
**Sampling Equipment Code:** RFPP  

**Remarks:**

**Material Codes:** AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)  
**Sampling/Purging:** APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump  
**Equipment Codes:** RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify)
## PURGING DATA

**WELL VOLUME PURGE:** 
1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) x WELL CAPACITY 

**EQUIPMENT VOLUME PURGE:** 
1 EQUIPMENT VOL = PUMP VOLUME + (TUBING CAPACITY x TUBING LENGTH) + FLOW CELL VOLUME 

<table>
<thead>
<tr>
<th>TIME</th>
<th>VOLUME PURGED (L)</th>
<th>CUMUL. VOLUME PURGED (L)</th>
<th>PURGE RATE (ml/min)</th>
<th>DEPTH TO WATER (ft)</th>
<th>pH (standard units)</th>
<th>TEMP. (°C)</th>
<th>COND. (μS/cm)</th>
<th>DISSOLVED OXYGEN (mg/L)</th>
<th>TURBIDITY (NTUs)</th>
<th>ORP (mV)</th>
<th>COLOR</th>
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<td>7.1</td>
<td>10</td>
<td>11</td>
</tr>
</tbody>
</table>

**WELL CAPACITY** (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

**TUBING INSIDE DIA. CAPACITY** (Gal./ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

## SAMPLING DATA

**SAMPLED BY (PRINT) / AFFILIATION:**

**PUMP OR TUBING DEPTH IN WELL (feet):** 325

**SAMPLES:**

**FILTRATION EQUIPMENT TYPE:** Teflon

**SAMPLE CONTAINER SPECIFICATION:**

<table>
<thead>
<tr>
<th>SAMPLE CODE</th>
<th># CONTAINERS</th>
<th>MATERIAL CODE</th>
<th>VOLUME</th>
<th>PRESERVATIVE USED</th>
<th>TOTAL VOL ADDED IN FIELD (ml)</th>
<th>FINAL pH</th>
<th>INTENDED ANALYSIS AND/OR METHOD</th>
<th>SAMPLING EQUIPMENT CODE</th>
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<tr>
<td>PP</td>
<td>3</td>
<td>CG</td>
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<td>&lt;2</td>
<td>Select VOCs (TCFM) /8250B</td>
<td>RFPP</td>
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</tbody>
</table>

**REMARKS:**

**MATERIAL CODES:**

- AG = Amber Glass;  
- CG = Clear Glass;  
- PE = Polyethylene;  
- PP = Polypropylene;  
- S = Silicone;  
- T = Teflon;  
- O = Other (Specify)

**SAMPLING/PURGING CODES:**

- APP = After Peristaltic Pump;  
- B = Bailer;  
- BP = Bladder Pump;  
- ESP = Electric Submersible Pump;  
- PP = Peristaltic Pump

**EQUIPMENT CODES:**

- RFP = Reverse Fl ow Peristaltic Pump;  
- SM = Straw Method (Tubing Gravity Drain);  
- VT = Vacuum Trap;  
- O = Other (Specify)
**PURGING DATA**

<table>
<thead>
<tr>
<th>TIME</th>
<th>VOLUME PURGED (Liters)</th>
<th>CUMUL VOLUME PURGED (Liters)</th>
<th>PURGE RATE (mL/min)</th>
<th>DEPTH TO WATER (ft)</th>
<th>pH (standard units)</th>
<th>TEMP. (°C)</th>
<th>COND. (μS/cm)</th>
<th>D Dissolved Oxygen (mg/L)</th>
<th>Turbidity (NTUs)</th>
<th>ORP (mV)</th>
<th>COLOR</th>
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<td>1.55</td>
<td>8.2</td>
<td>-11</td>
<td>1</td>
<td>-</td>
</tr>
</tbody>
</table>

**TOTAL VOLUME PURGED (Liters):** 6.0

**WELL CAPACITY (Gallons Per Foot):** 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

**TUBING INSIDE DIA. CAPACITY (Gal./ft.):** 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/32" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

**SAMPLED BY (PRINT) / AFFILIATION:**

**TINUS:**

**SAMPLE(S) SIGNATURES:**

**SAMPLING INITIATED AT:** 07:35

**SAMPLING ENDED AT:**

**PUMP OR TUBING DEPTH IN WELL (feet):** 27 C

**SAMPLE PUMP FLOW RATE (mL per minute):**

**TUBING MATERIAL CODE:** Teflon

**FIELD DECONTAMINATION:**

**FIELD-FILTERED:** Y

**FILTER SIZE:** __μm

**Filtration Equipment Type:**

**SAMPLE CONTAINER SPECIFICATION:**

**SAMPLE PRESERVATION:**

**INTENDED ANALYSIS AND/OR METHOD:**

**SAMPLING EQUIPMENT CODE:**

**REMARKS:**

**MATERIAL CODES:**

AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING/PURGING EQUIPMENT CODES:**

APP = After Peristaltic Pump; B = Bailers; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump

**EQUIPMENT CODES:**

RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify)
**PURGING DATA**

<table>
<thead>
<tr>
<th>WELL VOLUME PURGE</th>
<th>EQUIPMENT VOLUME PURGE:</th>
<th>1 WELL VOLUME</th>
<th>1 EQUIPMENT VOL.</th>
</tr>
</thead>
<tbody>
<tr>
<td>(TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY</td>
<td>PUMP VOLUME X (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME</td>
<td>only fill out if applicable</td>
<td>only fill out if applicable</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>INITIAL PUMP OR TUBING DEPTH IN WELL (feet)</th>
<th>FINAL PUMP OR TUBING DEPTH IN WELL (feet)</th>
<th>PURGE INITIATED AT:</th>
<th>PURGE ENDED AT:</th>
</tr>
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<tbody>
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<td>100</td>
<td>110</td>
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<td>5</td>
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<td>2.17</td>
</tr>
<tr>
<td>1100</td>
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<tr>
<td>1110</td>
<td>5</td>
<td>2.12</td>
<td>2.17</td>
</tr>
</tbody>
</table>

**COLOR**

- 1
- 2

**WELL CAPACITY** (Gallons Per Foot):
- 0.75" = 0.02
- 1" = 0.04
- 1.25" = 0.06
- 2" = 0.16
- 3" = 0.37
- 4" = 0.65
- 5" = 1.02
- 6" = 1.47
- 12" = 5.88

**TUBING INSIDE DIAM. CAPACITY** (Gallons):
- 1/8" = 0.0006
- 3/16" = 0.0014
- 1/4" = 0.0026
- 5/16" = 0.004
- 3/8" = 0.006
- 1/2" = 0.010
- 5/8" = 0.016

**SAMPLED BY/PRINT AFFILIATION**: [Signature]

**PUMP OR TUBING DEPTH IN WELL (feet)**: [Signature]

**SAMPLE PUMP FLOW RATE (mL per minute)**: [Signature]

**FIELD DECONTAMINATION**: [Signature]

**SAMPLE CONTAINER SPECIFICATION**: [Signature]

**SAMPLE PRESERVATION**: [Signature]

**INTENDED ANALYSIS AND/OR METHOD**

<table>
<thead>
<tr>
<th>SAMPLE ID CODE</th>
<th># CONTAINERS</th>
<th>MATERIAL CODE</th>
<th>VOLUME</th>
<th>PRESERVATIVE USED</th>
<th>TOTAL VOL ADDED IN FIELD (mL)</th>
<th>FINAL pH</th>
<th>SELECT VOCs (TCFM)</th>
<th>SAMPLING EQUIPMENT CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>PP</td>
<td>3</td>
<td>CG</td>
<td>40 mL</td>
<td>HCL</td>
<td>NONE</td>
<td>&lt;2</td>
<td>Select VOCs</td>
<td>RFPP</td>
</tr>
</tbody>
</table>

**REMARKS**: [Signature]

**MATERIAL CODES**: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING/PURGING EQUIPMENT CODES**: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump

**SAMPLING/EQUIPMENT CODES**: RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify)
## Purging Data

**Well Diameter (in):** 1  
**Tubing Diameter (inches):** 3/16  
**Well Screen Interval Depth:** 35.00 ft.  
**Static Depth To Water:** 40.00 ft.  
**Purge Pump Type or Bailer:** Peristaltic Pump

**Well Volume Purge:**  
**Equipment Volume Purge:**

**Initial Pump or Tubing Depth in Well (feet):** 28.5  
**Final Pump or Tubing Depth in Well (feet):** 37.5  
**Purge Initiated at:** 11:45  
**Purge Ended at:** 12:05  
**Total Volume Purged (Liters):** 20

<table>
<thead>
<tr>
<th>Time</th>
<th>Volume Purged (Liters)</th>
<th>Cumul Volume Purged (Liters)</th>
<th>Purge Rate (ml/min)</th>
<th>pH (standard units)</th>
<th>Temp. (°C)</th>
<th>Cond. (μS/cm)</th>
<th>Dissolved Oxygen (mg/L)</th>
<th>Turbidity (NTUs)</th>
<th>ORP (mV)</th>
<th>Color</th>
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<td>342</td>
<td>8.8</td>
<td>5.0</td>
<td>43</td>
<td>1</td>
</tr>
</tbody>
</table>

**Well Capacity (Gallons Per Foot):** 0.75\* = 0.02; 1\* = 0.04; 2\* = 0.06; 3\* = 0.37; 4\* = 0.65; 5\* = 1.02; 6\* = 1.47; 12\* = 5.88  
**Tubing Inside Dia. Capacity (Gallons):** 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

## Sampling Data

**Sampled by (Print)/Affiliation:**  
**Sampler(s) Signature:**  
**Sampling Initiated At:** 12:05  
**Sampling Ended At:** 12:10

**Pump or Tubing Depth in Well (feet):** 37.5  
**Sample Pump Flow Rate (ml per minute):**  
**Tubing Material Code:** Teflon  
**Field Decontamination:** Y  
**Field-Filtered:** Y  
**Filter Size:** μm  
**Filtration Equipment Type:**

**Sample Container Specification**  
**Sample Preservation**  
**Intended Analysis and/or Method**  
**Sampling Equipment Code:**

<table>
<thead>
<tr>
<th>Sample ID Code</th>
<th># Containers</th>
<th>Material Code</th>
<th>Volume</th>
<th>Preservative Used</th>
<th>Total Vol Added in Field (ml)</th>
<th>Final pH</th>
<th>Intended Analysis and/or Method</th>
<th>Sampling Equipment Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>PP</td>
<td></td>
<td>CG</td>
<td>40 mL</td>
<td>HCL</td>
<td>None</td>
<td>&lt;2</td>
<td>Select VOCs (TCFM)/8260B</td>
<td>RFPP</td>
</tr>
</tbody>
</table>

## Remarks

**Material Codes:**  
AG = Amber Glass;  
CG = Clear Glass;  
PE = Polyethylene;  
PP = Polypropylene;  
S = Silicone;  
T = Teflon;  
O = Other (Specify)

**Sampling/Purging Equipment Codes:**  
APP = After Peristaltic Pump;  
B = Bailer;  
BP = Bladder Pump;  
ESP = Electric Submersible Pump;  
PP = Peristaltic Pump

**Sampling Equipment Codes:**  
RFPP = Reverse Flow Peristaltic Pump;  
SM = Straw Method (Tubing Gravity Drain);  
VT = Vacuum Trap;  
O = Other (Specify)
### Purging Data

**Well Diameter (in):** 1  
**Tubing Diameter (inches):** 3/16  
**Well Screen Interval Depth:** 35.00 ft. to 40.00 ft.  
**Static Depth to Water (ft):** 40.5  
**Well Volume Purge:** 1  
**Equipment Volume Purge:** 1  
**Equipment Volume Purge:** 1 (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) x WELL CAPACITY

**Equipment Volume Purge:** 1 = PUMP VOLUME + (Tubing Capacity x Tubing Length) + Flow Cell Volume

- **Initial Pump or Tubing Depth in Well (feet):**
- **Cumul Volume Purged (Liters):**  
- **Cumul Volume Purged (Liters):**
- **Purge Rate (ml/min):**  
- **Depth to Water (ft):**
- **pH (standard units):**  
- **Temp (°C):**
- **Cond. (μS/cm):**
- **Dissolved Oxygen (mg/L):**
- **Turbidity (NTU):**
- **ORP (mV):**
- **Color:**

**Time** | **Volume Purged (Liters)** | **Cumul Volume Purged (Liters)** | **Purge Rate (ml/min)** | **Depth to Water (ft):** | **pH (standard units):** | **Temp (°C):** | **Cond. (μS/cm):** | **Dissolved Oxygen (mg/L):** | **Turbidity (NTU):** | **ORP (mV):** | **Color:**
---|---|---|---|---|---|---|---|---|---|---|
9:45 | 0.005 | 0 | 0 | 0 | Initiate purge
9:50 | 0.005 | 0.005 | 0.005 | 0 | 4.5 | 28.7 | 957 | 12.9 | 7.7 | 16.7 | Clear
9:55 | 0.020 | 0.025 | 0.020 | 0 | 4.72 | 6.46 | 77.02 | 11.9 | 4.8 | 17.7 | Clear
10:00 | 0.025 | 0.05 | 0.005 | 0 | 4.73 | 6.37 | 77.02 | 10.25 | 12.6 | 7 | 18.0 | Clear
10:05 | 0.025 | 0.075 | 0.025 | 0 | 4.73 | 6.33 | 77.02 | 10.55 | 14.6 | 10.8 | 18.3 | Clear
10:10 | 0.025 | 0.1 | 0.025 | 0 | 4.76 | 6.32 | 77.02 | 10.43 | 23.3 | 8.2 | 184.3 | Clear

**Well Capacity (Gallons Per Foot):** 0.755 = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

**Tubing Inside Dia. Capacity (Gal./ft):** 0.006; 0.014; 0.026; 0.004; 0.006; 0.010; 0.016

### Sampling Data

**Sampled By (Print)/Affiliation:** K. Linstad Triaxx  
**Sampler(s) Signatures:** K. Linstad Triaxx  
**Sampling Initiated At:** 10:12  
**Sampling Ended At:** 10:15

**Pump or Tubing:** Sample Pump  
**Flow Rate (ml per minute):**  
**Tubing Material Code:** Teflon

**Field Decontamination:** Y  
**Field-Filtered:** Y  
**Filter Size:** __μm  
**Filtration Equipment Type:** __

**Sample Container Specification**

<table>
<thead>
<tr>
<th>Sample ID Code</th>
<th># Containers</th>
<th>Material Code</th>
<th>Volume</th>
<th>Preservative Used</th>
<th>Total Vol Added in Field (ml)</th>
<th>Final pH</th>
<th>Intended Analysis and/or Method</th>
<th>Sampling Equipment Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>PP</td>
<td>3</td>
<td>CG</td>
<td>40 mL</td>
<td>HCL</td>
<td>None</td>
<td>&lt;2</td>
<td>Select VOCs (TCFM)/8260B</td>
<td>RFPP</td>
</tr>
</tbody>
</table>

**Remarks:** Turbidity on the rise grad sample

**Material Codes:**
- AG = Amber Glass  
- CG = Clear Glass  
- PE = Polyethylene  
- PP = Polypropylene  
- S = Silicone  
- T = Teflon  
- O = Other (Specify)

**Sampling/Purging Equipment Codes:**
- APP = After Peristaltic Pump  
- B = Bailer  
- BP = Bladder Pump  
- ESP = Electric Submersible Pump  
- SM = Straw Method (Tubing Gravity Drain)  
- VT = Vacuum Trap  
- PP = Peristaltic Pump  
- RFPP = Reverse Flow Peristaltic Pump  

**Equipment Codes:**
- RFPP = Reverse Flow Peristaltic Pump  
- SM = Straw Method (Tubing Gravity Drain)  
- VT = Vacuum Trap  
- O = Other (Specify)
**Tetra Tech NUS / FDEP Groundwater Sampling Sheet**

**SITE**
- NAME: Hypergol Maintenance Facility (HMF)
- LOCATION: John F. Kennedy Space Center (KSC)
- WELL NO: IW-11
- SAMPLE ID: HMF-NLW-MW001-037.5-20140710
- DATE: 10-7-2014

**PURGING DATA**

<table>
<thead>
<tr>
<th>WELL DIAMETER (in):</th>
<th>TUBING DIAMETER (inches):</th>
<th>WELL SCREEN INTERVAL DEPTH:</th>
<th>STATIC DEPTH TO WATER (ft):</th>
<th>PURGE PUMP TYPE OR BAILER:</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>3/16</td>
<td>37.00 ft to 40.00 ft</td>
<td>5</td>
<td>Peristaltic Pump</td>
</tr>
</tbody>
</table>

**WELL VOLUME PURGE**

1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) \* WELL CAPACITY

**EQUIPMENT VOLUME PURGE**

1 EQUIPMENT VOL = PUMP VOLUME + (TUBING CAPACITY \* TUBING LENGTH) + FLOW CELL VOLUME

**INITIAL PUMP OR TUBING DEPTH IN WELL (feet):**

**FINAL PUMP OR TUBING DEPTH IN WELL (feet):**

<table>
<thead>
<tr>
<th>TIME</th>
<th>VOLUME PURGED (Liters)</th>
<th>CUMUL. VOLUME PURGED (Liters)</th>
<th>PURGE RATE (ml/min)</th>
<th>DEPTH TO WATER (ft)</th>
<th>pH (standard units)</th>
<th>TEMP. (°C)</th>
<th>COND. (μS/cm)</th>
<th>DISSOLVED OXYGEN (mg/L)</th>
<th>TURBIDITY (NTUs)</th>
<th>ORP (mV)</th>
<th>COLOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:04</td>
<td>0</td>
<td>0</td>
<td>.005</td>
<td>.5</td>
<td>2.1</td>
<td>4.8</td>
<td>7.2</td>
<td>9.8</td>
<td>238</td>
<td>9</td>
<td>Yellow</td>
</tr>
<tr>
<td>1:05</td>
<td>.5</td>
<td>.5</td>
<td>1.00</td>
<td>8.7</td>
<td>25.5</td>
<td>15.0</td>
<td>7.5</td>
<td>8.8</td>
<td>231</td>
<td>9.4</td>
<td>Yellow</td>
</tr>
<tr>
<td>1:06</td>
<td>1.5</td>
<td>2.0</td>
<td>1.00</td>
<td>8.5</td>
<td>25.8</td>
<td>14.3</td>
<td>7.1</td>
<td>9.4</td>
<td>230</td>
<td>9.4</td>
<td>Yellow</td>
</tr>
<tr>
<td>1:07</td>
<td>2.5</td>
<td>4.5</td>
<td>.100</td>
<td>6.8</td>
<td>25.7</td>
<td>15.0</td>
<td>6.8</td>
<td>8.9</td>
<td>215</td>
<td>9.4</td>
<td>Yellow</td>
</tr>
</tbody>
</table>

**TOTAL VOLUME PURGED (Liters): 2.5**

**WELL CAPACITY (Gallons Per Foot):** 0.75” = 0.02; 1” = 0.04; 1.25” = 0.06; 2” = 0.16; 3” = 0.37; 4” = 0.65; 5” = 1.02; 6” = 1.47; 12” = 5.88

**TUBING INSIDE DIA. CAPACITY (Gal./ft.):** 1/8” = 0.0006; 3/16” = 0.0014; 1/4” = 0.0026; 5/16” = 0.004; 3/8” = 0.006; 1/2” = 0.010; 5/8” = 0.016

**SAMPLING DATA**

**SAMPLED BY (PRINT) / AFFILIATION:**
- TINUS/Ken Clinton T

**SAMPLER(S) SIGNATURES:**
- Ken Clinton T

**SAMPLE INITIATED AT:**
- 11:10

**SAMPLED BY:**
- TINUS/Ken Clinton T

**SAMPLED ENDED AT:**
- 11:15

**PUMP OR TUBING DEPTH IN WELL (feet):**
- Sample Pump Flow Rate (ml per minute):
- Tubing Material Code: Teflon

**FIELD DECONTAMINATION:**
- Y

**FIELD-FILTERED:**
- Y

**FILTER SIZE:**
- 0.45 um

**Filtration Equipment Type:**
-

**SAMPLE CONTAINER SPECIFICATION**

<table>
<thead>
<tr>
<th>SAMPLE ID CODE</th>
<th># CONTAINERS</th>
<th>MATERIAL CODE</th>
<th>VOLUME</th>
<th>PRESERVATIVE USED</th>
<th>TOTAL VOL ADDED IN FIELD (ml)</th>
<th>FINAL pH</th>
<th>INTENDED ANALYSIS AND/OR METHOD</th>
<th>SAMPLING EQUIPMENT CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>PP</td>
<td>3</td>
<td>CG</td>
<td>40 mL</td>
<td>HCL</td>
<td>NONE</td>
<td>&lt;2</td>
<td>Select VOCs (TCFM) /8260B</td>
<td>RFPP</td>
</tr>
</tbody>
</table>

**REMARKS:**

**MATERIAL CODES:**
- AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING/PURGING EQUIPMENT CODES:**
- APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump

**EQUIPMENT CODES:**
- RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify)
**PURGING DATA**

<table>
<thead>
<tr>
<th>TIME</th>
<th>VOLUME PURGED (Liters)</th>
<th>CUMUL. VOLUME PURGED (Liters)</th>
<th>PURGE RATE (ml/gpm)</th>
<th>DEPTH TO WATER (ft)</th>
<th>PH (standard units)</th>
<th>TEMP (°C)</th>
<th>COND. (μS/cm)</th>
<th>DISSOLVED OXYGEN (mg/L)</th>
<th>TURBIDITY (NTUs)</th>
<th>ORP (mV)</th>
<th>COLOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:20</td>
<td>0.005</td>
<td>0.005</td>
<td>16</td>
<td>5</td>
<td>0.55</td>
<td>Initiate purge</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11:25</td>
<td>0.5</td>
<td>0.5</td>
<td>100</td>
<td>0.82</td>
<td>5.41</td>
<td>26.00</td>
<td>30.2</td>
<td>8.3</td>
<td>-192.1</td>
<td>14</td>
<td>Clear</td>
</tr>
<tr>
<td>11:30</td>
<td>0.5</td>
<td>1.0</td>
<td>100</td>
<td>0.83</td>
<td>5.48</td>
<td>25.88</td>
<td>79.6</td>
<td>23.0</td>
<td>5.5</td>
<td>-182.1</td>
<td>Clear</td>
</tr>
<tr>
<td>11:35</td>
<td>0.5</td>
<td>1.5</td>
<td>100</td>
<td>0.83</td>
<td>5.55</td>
<td>25.82</td>
<td>79.1</td>
<td>14.4</td>
<td>5.4</td>
<td>-190</td>
<td>Clear</td>
</tr>
<tr>
<td>11:40</td>
<td>0.5</td>
<td>2.0</td>
<td>100</td>
<td>0.83</td>
<td>5.57</td>
<td>25.86</td>
<td>79.1</td>
<td>11.5</td>
<td>5.4</td>
<td>-192.0</td>
<td>Clear</td>
</tr>
</tbody>
</table>

**WELL CAPACITY** (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

**TUBING INSIDE DIA. CAPACITY** (Gallons/FT): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

---

**SAMPLING DATA**

- **SAMPLED BY/PRINT AFFILIATION:**
  - NAME: HyperGol Maintenance Facility (HMF)
  - SAMPLE ID: HMF-NLP-MW0001-0108.5-20140710

- **SAMPLED BY/PRINT AFFILIATION:**
  - NAME: John F. Kennedy Space Center (KSC)
  - DATE: 10-7-2014

- **SAMPLED BY/PRINT AFFILIATION:**
  - NAME: Peristaltic Pump
  - DATE: 10-7-2014

- **SAMPLED BY/PRINT AFFILIATION:**
  - NAME: Bladder Pump
  - DATE: 10-7-2014

- **SAMPLED BY/PRINT AFFILIATION:**
  - NAME: Electric Submersible Pump
  - DATE: 10-7-2014

- **SAMPLED BY/PRINT AFFILIATION:**
  - NAME: Peristaltic Pump
  - DATE: 10-7-2014

**SAMPLE CONTAINER SPECIFICATION**

<table>
<thead>
<tr>
<th>SAMPLE ID CODE</th>
<th># CONTAINERS</th>
<th>MATERIAL CODE</th>
<th>VOLUME</th>
<th>PRESERVATIVE USED</th>
<th>TOTAL VOL ADDED IN FIELD (ml)</th>
<th>FINAL pH</th>
<th>INTENDED ANALYSIS AND/OR METHOD</th>
<th>SAMPLING EQUIPMENT CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>PP</td>
<td>3</td>
<td>CG</td>
<td>40 mL</td>
<td>HCL</td>
<td>0.0</td>
<td>&lt;2</td>
<td>Select VOCs (TCFM) / 8260B</td>
<td>RFPP</td>
</tr>
</tbody>
</table>

**REMARKS:**

**MATERIAL CODES:**
- AG = Amber Glass
- CG = Clear Glass
- PE = Polyethylene
- PP = Polypropylene
- S = Silicone
- T = Teflon
- O = Other (Specify)

**SAMPLING PURGING CODES:**
- APP = After Peristaltic Pump
- B = Bailer
- BP = Bladder Pump
- ESP = Electric Submersible Pump
- PP = Peristaltic Pump

**EQUIPMENT CODES:**
- RFPP = Reverse Flow Peristaltic Pump
- SM = Straw Method (Tubing Gravity Drain)
- VT = Vacuum Trap
- O = Other (Specify)
### Purging Data

**Well Diameter (in):** 1  
**Tubing Diameter (inches):** 3/16  
**Well Screen Interval Depth:** 35.00 ft. to 40.00 ft.  
**Static Depth to Water (ft):** 3.42  
**Well Volume Purge:** 1  
**Well Volume = (Total Well Depth − Static Depth to Water) × Well Capacity**  
**Equipment Volume Purge:** 1  
**Equipment Volume = Pump Volume + (Tubing Capacity × Tubing Length) + Flow Cell Volume**  
**Initial Pump or Tubing Depth in Well (feet):**  
**Final Pump or Tubing Depth in Well (feet):**  
**Purge Initiated At:** 07:00  
**Purge Ended At:** 09:20  
**Total Volume Purge (Liters):** 4.

<table>
<thead>
<tr>
<th>TIME</th>
<th>Volume Purged (Liters)</th>
<th>Cumul Volume Purged (Liters)</th>
<th>Purge Rate (ml/min)</th>
<th>Depth to Water (ft)</th>
<th>Temp (°C)</th>
<th>Cond. (μS/cm)</th>
<th>Dissolved Oxygen (mg/l)</th>
<th>Turbidity (NTUs)</th>
<th>ORP (mV)</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:00</td>
<td>0.0</td>
<td>0.0</td>
<td>0.200</td>
<td>3.42</td>
<td>Purge Initiated</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>09:05</td>
<td>1.0</td>
<td>1.0</td>
<td>0.200</td>
<td>4.80</td>
<td>7.36</td>
<td>26.67</td>
<td>860.2</td>
<td>62.5</td>
<td>5.5</td>
<td>107.9</td>
</tr>
<tr>
<td>09:10</td>
<td>1.0</td>
<td>2.0</td>
<td>0.200</td>
<td>4.80</td>
<td>7.34</td>
<td>26.72</td>
<td>765.5</td>
<td>61.6</td>
<td>3.4</td>
<td>107.4</td>
</tr>
<tr>
<td>09:15</td>
<td>3.0</td>
<td>3.0</td>
<td>0.200</td>
<td>4.78</td>
<td>7.34</td>
<td>26.60</td>
<td>7800</td>
<td>62.0</td>
<td>3.2</td>
<td>106.5</td>
</tr>
<tr>
<td>09:20</td>
<td>4.0</td>
<td>4.0</td>
<td>0.200</td>
<td>4.78</td>
<td>7.34</td>
<td>2668</td>
<td>7667</td>
<td>61.3</td>
<td>1.3</td>
<td>105.2</td>
</tr>
</tbody>
</table>

**Well Capacity (Gallons Per Foot):** 0.75° = 0.02; 1° = 0.04; 1.25° = 0.06; 2° = 0.16; 3° = 0.37; 4° = 0.65; 5° = 1.02; 6° = 1.47; 12° = 5.88  
**Tubing Inside Dia. Capacity (Gal./ft):** 1/8° = 0.0066; 3/16° = 0.0014; 1/4° = 0.0026; 5/16° = 0.004; 3/8° = 0.006; 1/2° = 0.010; 5/8° = 0.016

### Sampling Data

**Sampled By (Print)/Affiliation:** [Name]  
**Sampler(S) Signature:** [Signature]  
**Sampling Initiated At:** 09:25  
**Sampling Ended At:** 09:30  
**Pump or Tubing Depth in Well (feet):**  
**Sample Pump Flow Rate (ml per minute):**  
**Tubing Material Code:** Teflon  
**Field Decontamination:** Y  
**Field-Filtered:** Y  
**Filter Size:** 5 μm  
**Sample Preservation:** 

<table>
<thead>
<tr>
<th>Sample Container Specification</th>
<th>Sample Container Code</th>
<th># Containers</th>
<th>Material Code</th>
<th>Volume</th>
<th>Preservation Used</th>
<th>Total Vol Added in Field (ml)</th>
<th>Final pH</th>
<th>Intended Analysis And/or Method</th>
<th>Intended Analysis And/or Method</th>
<th>Sampling Equipment Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>PP</td>
<td>3</td>
<td>3</td>
<td>CG</td>
<td>40 mL</td>
<td>HCL</td>
<td>NONE</td>
<td>&lt;2</td>
<td>Select VOCs (TCFM)/8260B</td>
<td>RFPP</td>
<td>RFPP</td>
</tr>
</tbody>
</table>

**Remarks:**

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**Sampling/Purging Equipment Codes:** APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify)
### PURGING DATA

**WELL VOLUME PURGE:**

1. **WELL VOLUME** = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) × WELL CAPACITY

   (only fill out if applicable)

2. **EQUIPMENT VOLUME PURGE:** = PUMP VOLUME + (TUBING CAPACITY × TUBING LENGTH) + FLOW CELL VOLUME

   (only fill out if applicable)

<table>
<thead>
<tr>
<th>LOCATION</th>
<th>John F. Kennedy Space Center (KSC)</th>
</tr>
</thead>
<tbody>
<tr>
<td>WELL NO.</td>
<td>MW-01</td>
</tr>
<tr>
<td>SAMPLE ID</td>
<td>HMF-MW000537.0-20140923</td>
</tr>
<tr>
<td>DATE</td>
<td>9-23</td>
</tr>
</tbody>
</table>

**WELL DIAMETER (in):** 1

**TUBING DIAMETER (inches):** 3/16

**WELL SCREEN INTERVAL DEPTH:** 35.00 ft to 40.00 ft

**STATIC DEPTH TO WATER (ft):** 26.9

**PURGE PUMP TYPE OR BAILER:** Peristaltic Pump

**TOTAL VOLUME PURGED (Liters):** 2.5

<table>
<thead>
<tr>
<th>TIME</th>
<th>VOLUME PURGED (Liters)</th>
<th>CUMUL VOLUME PURGED (Liters)</th>
<th>PURGE RATE (ml/min)</th>
<th>DEPTH TO WATER (ft)</th>
<th>pH (standard units)</th>
<th>TEMP. (°C)</th>
<th>COND. (μS/cm)</th>
<th>DISSOLVED OXYGEN (mg/L)</th>
<th>TURBIDITY (NTUs)</th>
<th>ORP (mV)</th>
<th>COLOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:30</td>
<td>0</td>
<td>0</td>
<td>2.00</td>
<td>2.09</td>
<td>Initiated</td>
<td>Purge</td>
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</table>

9:53 sample time

**WELL CAPACITY (Gallons Per Foot):** 0.75 gpd = 0.02

**TUBING INSIDE DIA. CAPACITY (Gal./ft):** 1/16" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

### SAMPLING DATA

**SAMPLED BY** (PRINT) / AFFILIATION: For Victor Luna

**SAMPLE(S) SIGNATURES:**

- **PUMP OR BORING DEPTH IN WELL (feet):**
- **FIELD OR TUBE DECONTAMINATION:** Y N
- **FIELD-FILTERED:** Y N
- **FILTER SIZE:** __μm
- **FILTERATION EQUIPMENT TYPE:**
- **SAMPLE CONTAINER SPECIFICATION:**
  - **SAMPLE CODE**
  - **# CONTAINERS**
  - **MATERIAL CODE**
  - **VOLUME**
  - **PRESEVATIVE USED**
  - **TOTAL VOLUME ADDED IN FIELD (ml):**
  - **FINAL pH**
  - **INTENDED ANALYSIS AND/OR METHOD**
  - **SAMPLING EQUIPMENT CODE**
  - **SELECT VOCs (TCFM) /8260B RFPP**

- **MS/MSD:** Y N

**INTENDED ANALYSIS AND/OR METHOD:**

**SAMPLING EQUIPMENT CODE:**

**REMARKS:**

**MATERIAL CODES:**

- AG = Amber Glass
- CG = Clear Glass
- PE = Polyethylene
- PP = Polypropylene
- S = Silicone
- T = Teflon
- O = Other (Specify)

**SAMPLING/PURGING EQUIPMENT CODES:**

- APP = After Peristaltic Pump
- B = Bailer
- BP = Bladder Pump
- ESP = Electric Submersible Pump
- PP = Peristaltic Pump
- RFPP = Reverse Flow Peristaltic Pump
- SM = Straw Method (Tubing Gravity Drain)
- VT = Vacuum Trap
- O = Other (Specify)
## Purging Data

### Well Information
- **Well Diameter (in):** 1
- **Tubing Diameter (inches):** 3/16
- **Well Screen Interval:** 35.00 ft.
- **Static Depth to Water:** 2.52 ft.
- **Well Volume Purge:** 1
- **Equipment Volume Purge:** 1
- **Purge Pump Type:** Peristaltic Pump

### Purge Calculations
- **Well Volume:** (Total Well Depth - Static Depth to Water) x Well Capacity
  - 
- **Equipment Volume:** Pump Volume + (Tubing Capacity x Tubing Length) + Flow Cell Volume
  - 

### Purge Details

<table>
<thead>
<tr>
<th>Time</th>
<th>Volume Purged (Liters)</th>
<th>Cumulative Volume Purged (Liters)</th>
<th>Purge Rate (ml/min)</th>
<th>Depth to Water (ft)</th>
<th>pH (standard units)</th>
<th>Temp (°C)</th>
<th>Cond. (μS/cm)</th>
<th>Dissolved Oxygen (mg/L)</th>
<th>Turbidity (NTUs)</th>
<th>ORP (mV)</th>
<th>Color</th>
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<td>2.50</td>
<td>10</td>
<td>9.0</td>
<td>Clear</td>
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</tbody>
</table>

### Sampling Data

- **Sampled by:** [Signature] Ron Linton
- **Sampled by:** [Signature] Ron Martin
- **Sampling Initiative at:** 9:30
- **Sampling Ended at:** 9:35

- **Sample Pump Flow Rate (ml per minute):**
- **Tubing Material Code:** Teflon
- **Field Decontamination:** Y
- **Field Filtered:** Y
- **Filter Size:**
- **Filtration Equipment Type:**
- **Sample Container Specification:**
  - **Sample ID Code:** PP
  - **# Containers:** 3
  - **Material Code:** CG
  - **Volume:** 40 mL
  - **Preservative Used:** HCL
  - **Total Vol Added in Field (ml):**
  - **Final pH:** <2

### Remarks:

- **MATERIAL CODES:**
  - AG = Amber Glass
  - CG = Clear Glass
  - PE = Polyethylene
  - PP = Polypropylene
  - S = Silicone
  - T = Teflon
  - O = Other (Specify)

- **SAMPLING/PURGING CODES:**
  - APP = Altor Peristaltic Pump
  - B = Bailier
  - BP = Bladder Pump
  - ESP = Electric Submersible Pump
  - PP = Peristaltic Pump

- **EQUIPMENT CODES:**
  - RFP = Reverse Flow Peristaltic Pump
  - SM = Strain Method (Tubing Gravity Drain)
  - VT = Vacuum Trap
  - O = Other (Specify)
**PURGING DATA**

**WELL**
- **DIAMETER (in):** 2
- **DIA METER (inches):** 3/16
- **SCREEN INTERVAL DEPT H:** 35.00 ft. to 40.00 ft.
- **STATIC DEPTH TO WATER (ft):** 4.03
- **PURGE PUMP TYPE OR BAILER:** Peristaltic Pump

**WELL VOLUME PURGE:**
- **1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY**

**EQUIPMENT VOLUME PURGE:**
- **1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME**

**INITIAL PUMP OR TUBING DEPTH:**
- **F I N A L P U M P O R T U B I N G DE P T H (feet):**
- **CUMUL. VOLUME PURGED (Liters):**
- **VOLUME PURGED (Liters):**
- **PURGE RATE (ml/min):**
- **DEPTH TO WATER (ft):**
- **pH (standard units):**
- **COND. (µS/cm):**
- **TURBIDITY (NTUs):**
- **ORP (mV):**
- **COLOR:**

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<tr>
<th>TIME</th>
<th>VOLUME PURGED (Liters)</th>
<th>CUMUL. VOLUME PURGED (Liters)</th>
<th>PURGE RATE (ml/min)</th>
<th>DEPTH TO WATER (ft)</th>
<th>pH (standard units)</th>
<th>TEMP (°C)</th>
<th>COND. (µS/cm)</th>
<th>DISSOLVED OXYGEN (mg/L)</th>
<th>TURBIDITY (NTUs)</th>
<th>ORP (mV)</th>
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<td>-84.1</td>
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<td>Turbid</td>
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<td>4.00</td>
<td>7.60</td>
<td>26.27</td>
<td>2.33</td>
<td>28</td>
<td>31</td>
<td>96.9</td>
<td>1</td>
<td>Turbid</td>
</tr>
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<td>3.98</td>
<td>7.59</td>
<td>26.27</td>
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<td>99.5</td>
<td>0</td>
<td>Clear</td>
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</table>

**WELL CAPACITY (Gallons Per Foot):** 0.75" = 0.02 ; 1" = 0.04 ; 1.25" = 0.06 ; 2" = 0.16 ; 3" = 0.37 ; 4" = 0.65 ; 5" = 1.02 ; 6" = 1.47 ; 12" = 5.88

**TUBING INSIDE DIAM. CAPACITY (Gal./ft):** 1/8" = 0.0006 ; 3/16" = 0.0014 ; 1/4" = 0.0026 ; 5/16" = 0.004 ; 3/8" = 0.006 ; 1/2" = 0.010 ; 5/8" = 0.016

---

**SAMPLING DATA**

**SAMPLED BY (PRINT):** Troy Thrus
**AFFILIATION:**

**ASSESSOR(S) SIGNATURES:**

**SAMPLER(S) INITIATED AT:** 10:05
**SAMPLING ENDED AT:** 10:10

**PUMP OR TUBING DEPTH IN WELL (feet):**

**SAMPLE PUMP FLOW RATE (ml per minute):**

**TUBING MATERIAL CODE:** Teflon

**FIELD DECONTAMINATION:**

**FILTER SIZE:__ µm**

**FIELD FILTERED:**
- **Y**
- **N**

**SAMPLE CONTAINER SPECIFICATION**

<table>
<thead>
<tr>
<th>SAMPLE CODE</th>
<th># CONTAINERS</th>
<th>MATERIAL CODE</th>
<th>VOLUME</th>
</tr>
</thead>
<tbody>
<tr>
<td>PP</td>
<td>3</td>
<td>CG</td>
<td>40 mL</td>
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**SAMPLE PRESERVATION**

- **HCL**
- **NONE**
- **<2**

**INTENDED ANALYSIS AND/OR METHOD**

**SAMPLE EQUIPMENT CODE**

- **Select VOCs (TCFM) /8260B**
- **RFPP**

---

**REMARKS:**

**MATERIAL CODES:**
- **AG = Amber Glass**
- **CG = Clear Glass**
- **PE = Polyethylene**
- **PP = Polypropylene**
- **S = Silicone**
- **T = Teflon**
- **O = Other (Specify)**

**SAMPLING/PURGING CODES:**
- **APP = After Peristaltic Pump**
- **B = Bailer**
- **BP = Bailer Pump**
- **ESP = Electric Submersible Pump**
- **PP = Peristaltic Pump**

**EQUIPMENT CODES:**
- **RFPP = Reverse Flow Peristaltic Pump**
- **SM = Straw Method (Tubing Gravity Drain)**
- **VT = Vacuum Trap**
- **O = Other (Specify)"
### PURGING DATA

**WELL VOLUME PURGE:** 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) x WELL CAPACITY

**EQUIPMENT VOLUME PURGE:** 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY x TUBING LENGTH) + FLOW CELL VOLUME

<table>
<thead>
<tr>
<th>INITIAL PUMP OR TUBING DEPTH IN WELL (feet)</th>
<th>FINAL PUMP OR TUBING DEPTH IN WELL (feet)</th>
<th>PURGE INITIATED AT</th>
<th>PURGE ENDED AT</th>
<th>TOTAL VOLUME PURGED (Liters)</th>
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<tr>
<td>Time</td>
<td>VOLUME PURGED (Liters)</td>
<td>CUMUL. VOLUME PURGED (Liters)</td>
<td>PURGE RATE (mL/min)</td>
<td>DEPTH TO WATER (ft)</td>
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<td>0</td>
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<td>1</td>
<td>100</td>
<td>84</td>
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<tr>
<td>10:35</td>
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<td>5</td>
<td>100</td>
<td>84</td>
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**TIME:** 10:40 Sample time

**WELL CAPACITY (Gallons Per Foot):** 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

**TUBING INSIDE DIA. CAPACITY (Gal./ft):** 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

### SAMPLING DATA

- **SAMPLED BY (PRINT)/AFFILIATION:**
- **SAMPLE(S) SIGNATURES:**
- **REMARKS:**

**PUMP OR TUBING DEPTH IN WELL (feet):**

**FIELD DECONTAMINATION:** Y N

**FIELD FILTERED:** Y N

**FILTER SIZE:** µm

**SAMPLE CONTAINER SPECIFICATION**

<table>
<thead>
<tr>
<th>SAMPLE CODE</th>
<th># CONTAINERS</th>
<th>MATERIAL CODE</th>
<th>VOLUME</th>
<th>PRESERVATIVE USED</th>
<th>TOTAL VOL. ADDED IN FIELD (mL)</th>
<th>FINAL pH</th>
<th>INTENDED ANALYSIS AND/OR METHOD</th>
<th>SAMPLING EQUIPMENT CODE</th>
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<tbody>
<tr>
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<td>CG</td>
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<td>Select VOCs (TCFM) /8250B</td>
<td>RFPP</td>
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**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING/PURGING EQUIPMENT CODES:** APP = Alter Peristaltic Pump; B = Ball; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify)
Tetra Tech NUS / FDEP Groundwater Sampling Sheet

SITE
NAME:  Hypergol Maintenance Facility (HMF)  LOCATION:  John F. Kennedy Space Center (KSC)
WELL NO:  IW-1D  SAMPLE ID:  HMF-NLP-MW0001-050.5-20140923  DATE:  9-23

PURGING DATA

WELL DIAMETER (in): 2  TUBING DIAMETER (inches): 3/16
WELL SCREEN INTERVAL: 48.00 ft to 53.00 ft  WELL VOLUME PURGE: 1
WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) x WENT CAPACITY

EQUIPMENT VOLUME PURGE: 1

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 2.00  FINAL PUMP OR TUBING DEPTH IN WELL (feet): 2.00
Purge initiated at: 10:55  Purge ended at: 11:10

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<th>CUMUL. VOLUME PURGED (Liters)</th>
<th>PULSE RATE (m/dm)</th>
<th>DEPTH TO WATER (ft)</th>
<th>pH (standard units)</th>
<th>TEMP (°C)</th>
<th>COND (μS/cm)</th>
<th>DISSOLVED OXYGEN (mg/L)</th>
<th>TURBIDITY (NTUs)</th>
<th>ORP (mV)</th>
<th>COLOR</th>
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<td>9</td>
<td>-59.8 clear</td>
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</table>

TOTAL VOLUME PURGED (Liters): 2

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal/ft): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

SAMPLING DATA

SAMPLED BY / PRINT) / AFFILIATION: Ron Linton
INSTRUMENTS: Teflon
PUMP OR TUBING DEPTH IN WELL (feet): 2
FIELD DECONTAMINATION: Y
FIELD FILTERED: Y
FILTER TYPE: Filtration Equipment Type

SAMPLE CONTAINER SPECIFICATION

<table>
<thead>
<tr>
<th>SAMPLE ID CODE</th>
<th># CONTAINERS</th>
<th>MATERIAL CODE</th>
<th>VOLUME</th>
</tr>
</thead>
<tbody>
<tr>
<td>PP</td>
<td>3</td>
<td>CG</td>
<td>40 mL</td>
</tr>
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SAMPLE PRESERVATION

<table>
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<tr>
<th>PRESERVATIVE USED</th>
<th>TOTAL VOL ADDED IN FIELD (ml)</th>
<th>FINAL pH</th>
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</thead>
<tbody>
<tr>
<td>HCL</td>
<td>NONE</td>
<td>&lt;2</td>
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INTENDED ANALYSIS AND/OR METHOD

<table>
<thead>
<tr>
<th>SELECT VOCs (TCFM)/8260B</th>
<th>RFPP</th>
</tr>
</thead>
</table>

REMARKS:

MATERIAL CODES:
- AG = Amber Glass
- CG = Clear Glass
- PE = Polyethylene
- PP = Polypropylene
- S = Silicone
- T = Teflon
- O = Other (Specify)

SAMPLING / PURGING EQUIPMENT:
- APP = Air Peristaltic Pump
- B = Bailer
- BP = Bladder Pump
- ESP = Electric Submersible Pump
- PP = Peristaltic Pump
- RFPP = Reverse Flow Peristaltic Pump
- SM = Straw Method (Tubing Gravity Drain)
- VT = Vacuum Trap
- O = Other (Specify)
Tetra Tech NUS / FDEP Groundwater Sampling Sheet

**PURGING DATA**

<table>
<thead>
<tr>
<th>TIME</th>
<th>VOLUME PURGED (Liters)</th>
<th>CUMUL. VOLUME PURGED (Liters)</th>
<th>PURGE RATE (ml/min)</th>
<th>DEPTH TO WATER (ft)</th>
<th>pH (standard units)</th>
<th>TEMP. (°C)</th>
<th>COND. (μS/cm)</th>
<th>DISSOLVED OXYGEN (mg/L)</th>
<th>TURBIDITY (NTUs)</th>
<th>ORP (mV)</th>
<th>COLOR</th>
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<tr>
<td>11:40</td>
<td>5</td>
<td>5</td>
<td>1.5</td>
<td>1.2</td>
<td>8.02</td>
<td>28.48</td>
<td>8.39</td>
<td>0.14</td>
<td>20</td>
<td>-181</td>
<td>clear</td>
</tr>
<tr>
<td>11:45</td>
<td>5</td>
<td>5</td>
<td>2</td>
<td>1.21</td>
<td>8.03</td>
<td>28.37</td>
<td>8.20</td>
<td>0.15</td>
<td>10</td>
<td>-180</td>
<td>clear</td>
</tr>
</tbody>
</table>

**WELL CAPACITY** (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 2.5" = 0.06; 3" = 0.14; 4" = 0.26; 5" = 0.40; 6" = 0.57; 12" = 5.98

**TUBING INSIDE DIA. CAPACITY** (Gal./ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

**SAMPLING DATA**

<table>
<thead>
<tr>
<th>SAMPLED BY (PRINT) / AFFILIATION</th>
<th>SAMPLERS SIGNATURES</th>
<th>SAMPLING INITIATED AT</th>
<th>SAMPLING ENDED AT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ron Linton Tunn</td>
<td>邹月</td>
<td>11:30</td>
<td>11:55</td>
</tr>
</tbody>
</table>

**PUMP OR TUBING DEPTH IN WELL (feet):**

**FIELD DECONTAMINATION:** Y N

**FIELD-FILTERED:** Y N

**FILTER SIZE:** ___ μm

**FILTERATION EQUIPMENT TYPE:**

**SAMPLE CONTAINER SPECIFICATION**

<table>
<thead>
<tr>
<th>SAMPLE ID CODE</th>
<th># CONTAINERS</th>
<th>MATERIAL CODE</th>
<th>VOLUME</th>
<th>PRESERVATIVE USED</th>
<th>TOTAL VOL ADDED IN FIELD (ml)</th>
<th>FINAL pH</th>
</tr>
</thead>
<tbody>
<tr>
<td>PP</td>
<td>3</td>
<td>CG</td>
<td>40 mL</td>
<td>HCL</td>
<td>NONE</td>
<td>&lt;2</td>
</tr>
</tbody>
</table>

**SAMPLE PRESERVATION**

**INTENDED ANALYSIS AND/OR METHOD:**

**SAMPLING EQUIPMENT CODE:**

**REMARKS:**

Well under water. Level at 0

**MATERIAL CODES:** AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

**SAMPLING/PURGING CODES:** APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump

**EQUIPMENT CODES:** RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify)
# PURGING DATA

<table>
<thead>
<tr>
<th>TIME</th>
<th>VOLUME PURGED (Liters)</th>
<th>CUMUL. VOLUME PURGED (Liters)</th>
<th>PURGE RATE (ml/min)</th>
<th>DEPTH TO WATER (ft)</th>
<th>pH (standard units)</th>
<th>TEMP. (°C)</th>
<th>COND. (μS/cm)</th>
<th>DISSOLVED OXYGEN (mg/L)</th>
<th>TURBIDITY (NTUs)</th>
<th>ORP (mV)</th>
<th>COLOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>12:05</td>
<td>0</td>
<td>0</td>
<td>.200</td>
<td>.05</td>
<td>Initiated paine</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12:10</td>
<td>1</td>
<td>1</td>
<td>.100</td>
<td>.85</td>
<td>7.10</td>
<td>29.52</td>
<td>40.27</td>
<td>3.88</td>
<td>410</td>
<td>-150.1</td>
<td>Clear</td>
</tr>
<tr>
<td>12:15</td>
<td>.5</td>
<td>1.5</td>
<td>.100</td>
<td>.85</td>
<td>7.07</td>
<td>29.53</td>
<td>17.160</td>
<td>.67</td>
<td>30</td>
<td>-152.1</td>
<td>Clear</td>
</tr>
<tr>
<td>12:20</td>
<td>.5</td>
<td>2</td>
<td>.100</td>
<td>.87</td>
<td>7.10</td>
<td>28.71</td>
<td>17.681</td>
<td>.69</td>
<td>21.1</td>
<td>-151.1</td>
<td>Clear</td>
</tr>
<tr>
<td>12:25</td>
<td>.5</td>
<td>2.5</td>
<td>.100</td>
<td>.87</td>
<td>7.11</td>
<td>28.72</td>
<td>17.690</td>
<td>.58</td>
<td>10</td>
<td>-151.1</td>
<td>Clear</td>
</tr>
</tbody>
</table>

Time: 12:30 Sample Time

WELL CAPACITY (Gallons Per Foot): 0.75” = 0.02; 1” = 0.04; 1.25” = 0.06; 2” = 0.16; 3” = 0.37; 4” = 0.65; 5” = 1.02; 6” = 1.47; 12” = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./ft): 1/8” = 0.0006; 3/16” = 0.0014; 1/4” = 0.0026; 5/16” = 0.004; 3/8” = 0.006; 1/2” = 0.010; 5/8” = 0.016

# SAMPLING DATA

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<thead>
<tr>
<th>SAMPLED BY (PRINT) / AFFILIATION:</th>
<th>Samplers(s) signature:</th>
<th>Sampling Initiates at:</th>
<th>Sampling Ended at:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Samplers(s) signature:</td>
<td>Kan. Linton Tingus</td>
<td>12:30</td>
<td>12:35</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PUMP OR TUBING DEPTH IN WELL (feet):</th>
<th>SAMPLE PUMP FLOW RATE (ml per minute):</th>
<th>TUBING MATERIAL CODE:</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 ft</td>
<td>20</td>
<td>Teflon</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FIELD DECONTAMINATION:</th>
<th>FIELD-FILTERED:</th>
<th>FILTER SIZE:</th>
<th>MS/MSD:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y</td>
<td>N</td>
<td></td>
<td>Y</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SAMPLE CONTAINER SPECIFICATION</th>
<th>SAMPLE PRESERVATION</th>
<th>INTENDED ANALYSIS AND/OR METHOD</th>
<th>SAMPLING EQUIPMENT CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sample ID Code</td>
<td># Containers</td>
<td>Material Code</td>
<td>Volume</td>
</tr>
<tr>
<td>PP</td>
<td>3</td>
<td>CG</td>
<td>40 mL</td>
</tr>
</tbody>
</table>

| REMARKS: |
| Well under water level at bottom of cap. |

**MATERIAL CODES:**
- AG = Amber Glass
- CG = Clear Glass
- PE = Polyethylene
- PP = Polypropylene
- S = Silicone
- T = Teflon
- O = Other (Specify)

**SAMPLING/PURGING:**
- APP = After Peristaltic Pump
- B = Bailor
- BP = Bladder Pump
- ESP = Electric Submersible Pump

**EQUIPMENT CODES:**
- RFPP = Reverse Flow Peristaltic Pump
- SM = Straw Method (Tubing Gravity Drain)
- VT = Vacuum Trap
- O = Other (Specify)
### Purging Data

<table>
<thead>
<tr>
<th>Static Depth To Water (feet bgl)</th>
<th>Casing Height (feet bgl)</th>
<th>Static Depth To Water (feet bgl) = DTW (bgl) - Casing Height (feet bgl)</th>
<th>Well Screen Interval Depth (feet bgl)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.19</td>
<td>-</td>
<td>.95</td>
<td>1.25</td>
</tr>
</tbody>
</table>

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY

<table>
<thead>
<tr>
<th>Initial Pump or Tubing Depth in Well (feet): 15.0</th>
<th>Final Pump or Tubing Depth in Well (feet): 15.0</th>
<th>Purging Initiated At: 13:30</th>
<th>Purging Ended At: 13:30</th>
<th>Total Volume Purged (Liters): 2.5</th>
</tr>
</thead>
</table>

**Notes:**
- Time: 13:00
- Volume Purged (Liters): 0
- Cumm. Volume Purged (Liters): 0
- Purge Rate (rpm): .200
- Depth to Water (feet): .95
- pH (standard units): 7.55
- Temp. (°C): 30.12
- Cond. (µS/cm): 1460
- ORP (mV): 145
- Turbidity (NTU): 26
- Dissolved Oxygen (mg/L): 10
- Color (describe): Clear

---

**Sampling Data**

**Sampled by (Print) / Affiliation:**

**Sampler(s) Signature:**

**Sampling Initiated At:** 13:30
**Sampling Ended At:** 13:35

**Pump or Tubing Depth in Well (feet):** 15.0
**Sample Pump: SM**
**Flow Rate (ml per minute):** 100
**Tubing Material Code:** Poly

**Field Decontamination:** (Y) N
**Field-Filtered:** Y (N)
**Filter Size:** µm
**Filtration Equipment Type:**

**Sample Container Specification**

<table>
<thead>
<tr>
<th>Sample ID Code</th>
<th>Containers</th>
<th>Material Code</th>
<th>Volume</th>
<th>Preservative Used</th>
<th>Total Vol Added in Field (mL)</th>
<th>Final pH</th>
<th>Intended Analysis and/or Method</th>
<th>Sampling Equipment Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>CG</td>
<td>4001</td>
<td>-KL</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**PURGING DATA**

<table>
<thead>
<tr>
<th>Time</th>
<th>Volume Purged (Liters)</th>
<th>Cumul. Volume Purged (Liters)</th>
<th>Purge Rate (ml/min)</th>
<th>Depth to Water (ft)</th>
<th>pH (Standard Units)</th>
<th>Temp. (°C)</th>
<th>Cond. (μS/cm)</th>
<th>Dissolved Oxygen (mg/L)</th>
<th>Turbidity (NTUs)</th>
<th>ORP (mV)</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>13:45</td>
<td>0</td>
<td>0</td>
<td>100</td>
<td>.25</td>
<td>7.29</td>
<td>28.38</td>
<td>4790</td>
<td>3.10</td>
<td>123</td>
<td>-156</td>
<td>clear</td>
</tr>
<tr>
<td>13:50</td>
<td>1</td>
<td>1</td>
<td>100</td>
<td>.75</td>
<td>7.29</td>
<td>28.38</td>
<td>4790</td>
<td>3.10</td>
<td>123</td>
<td>-156</td>
<td>clear</td>
</tr>
<tr>
<td>13:55</td>
<td>.5</td>
<td>1.5</td>
<td>100</td>
<td>.75</td>
<td>7.24</td>
<td>28.39</td>
<td>4780</td>
<td>.42</td>
<td>20</td>
<td>150</td>
<td>clear</td>
</tr>
<tr>
<td>14:00</td>
<td>.5</td>
<td>2</td>
<td>100</td>
<td>.77</td>
<td>7.23</td>
<td>28.19</td>
<td>4777</td>
<td>.60</td>
<td>15</td>
<td>151</td>
<td>clear</td>
</tr>
<tr>
<td>14:05</td>
<td>.5</td>
<td>2.5</td>
<td>100</td>
<td>.77</td>
<td>7.19</td>
<td>28.21</td>
<td>4769</td>
<td>.57</td>
<td>10</td>
<td>147</td>
<td>clear</td>
</tr>
</tbody>
</table>

**SAMPLING DATA**

- **Sampled by (Print) / Affiliation:**
  - (K. C. T. I. T. A. N.)
- **Sample(s) Signature:**
  - (K. C. T. I. T. A. N.)
- **Sampling Initiated At:** 14:10
- **Sampling Ended At:** 14:15
- **Pump or Tubing Depth In Well (feet):**
  - Sampled:
- **Field Decontamination:** Y N
- **Sample Container Specification:**
  - Sample ID Code: PP
  - # Containers: 3
  - Material Code: CG
  - Volume: 40 mL
- **Sample Preservation:**
  - Preservation Used: HCL
  - Final pH: <2
- **Intended Analysis and/or Method:**
  - Select VOCs (TCFM) / 8260B
- **Sampling Equipment Code:** RFPP

**Remarks:**

**Material Codes:**
- AG = Amber Glass
- CG = Clear Glass
- PE = Polyethylene
- PP = Polypropylene
- S = Silicone
- T = Teflon
- O = Other (Specify)

**Sampling/Purging Equipment Codes:**
- APP = After Peristaltic Pump
- B = Bailer
- BP = Bladder Pump
- ESP = Electric Submersible Pump
- PP = Peristaltic Pump
- RFPP = Reverse Flow Peristaltic Pump
- SM = Straw Method (Tubing Gravity Drain)
- VT = Vacuum Trap
- O = Other (Specify)
APPENDIX D

ANALYTICAL RESULTS

GROUNDWATER MONITORING EVENTS

- PRE-STARTUP BASELINE – SDG FA12519
- 102\textsuperscript{nd} MONTH: MARCH 2014 – SDG FA13725
- 106\textsuperscript{th} MONTH: JULY 2014 – SDG FA16590
- 108\textsuperscript{th} MONTH: SEPTEMBER 2014 – SDG FA18590

Full analytical reports (SDG packages) provided on project CD
PRE-STARTUP BASELINE – SDG FA12519
### Report of Analysis

**Client Sample ID:** HMF-NLP-MW0004-037.5-20140213  
**Lab Sample ID:** FA12519-1  
**Date Sampled:** 02/13/14  
**Matrix:** AQ - Ground Water  
**Date Received:** 02/15/14  
**Method:** SW846 8260B  
**Percent Solids:** n/a  
**Project:** HMF

<table>
<thead>
<tr>
<th>Run #</th>
<th>File ID</th>
<th>DF</th>
<th>Analyzed</th>
<th>By</th>
<th>Prep Date</th>
<th>Prep Batch</th>
<th>Analytical Batch</th>
</tr>
</thead>
<tbody>
<tr>
<td>Run #1</td>
<td>B096469.D</td>
<td>250</td>
<td>02/26/14</td>
<td>WV</td>
<td>n/a</td>
<td>n/a</td>
<td>VB3932</td>
</tr>
<tr>
<td>Run #2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Purge Volume**  
Run #1: 5.0 ml  
Run #2:

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Compound</th>
<th>Result</th>
<th>PQL</th>
<th>MDL</th>
<th>Units</th>
<th>Q</th>
</tr>
</thead>
<tbody>
<tr>
<td>75-69-4</td>
<td>Trichlorofluoromethane</td>
<td>14600</td>
<td>500</td>
<td>130</td>
<td>ug/l</td>
<td></td>
</tr>
</tbody>
</table>

**CAS No. Surrogate Recoveries**  
<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Compound</th>
<th>Run# 1</th>
<th>Run# 2</th>
<th>Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1868-53-7</td>
<td>Dibromofluoromethane</td>
<td>96%</td>
<td></td>
<td>83-118%</td>
</tr>
<tr>
<td>17060-07-0</td>
<td>1,2-Dichloroethane-D4</td>
<td>95%</td>
<td></td>
<td>79-125%</td>
</tr>
<tr>
<td>2037-26-5</td>
<td>Toluene-D8</td>
<td>102%</td>
<td></td>
<td>85-112%</td>
</tr>
<tr>
<td>460-00-4</td>
<td>4-Bromofluorobenzene</td>
<td>100%</td>
<td></td>
<td>83-118%</td>
</tr>
</tbody>
</table>

U = Not detected  
MDL = Method Detection Limit  
I = Result >= MDL but < PQL  
J = Estimated value  
PQL = Practical Quantitation Limit  
V = Indicates analyte found in associated method blank  
L = Indicates value exceeds calibration range  
N = Indicates presumptive evidence of a compound
Report of Analysis

Client Sample ID: HMF-ASW 34-40-20140213
Lab Sample ID: FA12519-2
Matrix: AQ - Ground Water
Method: SW846 8260B
Project: HMF

<table>
<thead>
<tr>
<th>Run #</th>
<th>File ID</th>
<th>DF</th>
<th>Analyzed</th>
<th>By</th>
<th>Prep Date</th>
<th>Prep Batch</th>
<th>Analytical Batch</th>
</tr>
</thead>
<tbody>
<tr>
<td>#1 a</td>
<td>B096467.D</td>
<td>1</td>
<td>02/26/14</td>
<td>WV</td>
<td>n/a</td>
<td>n/a</td>
<td>VB3932</td>
</tr>
<tr>
<td>#2 b</td>
<td>B096471.D</td>
<td>2</td>
<td>02/26/14</td>
<td>WV</td>
<td>n/a</td>
<td>n/a</td>
<td>VB3932</td>
</tr>
</tbody>
</table>

Purge Volume
Run #1 5.0 ml
Run #2 5.0 ml

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Compound</th>
<th>Result</th>
<th>PQL</th>
<th>MDL</th>
<th>Units</th>
<th>Q</th>
</tr>
</thead>
<tbody>
<tr>
<td>75-69-4</td>
<td>Trichlorofluoromethane</td>
<td>79.8 c</td>
<td>4.0</td>
<td>1.0</td>
<td>ug/l</td>
<td>Q</td>
</tr>
</tbody>
</table>

Surrogate Recoveries

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Compound</th>
<th>Run#1</th>
<th>Run#2</th>
<th>Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1868-53-7</td>
<td>Dibromofluoromethane</td>
<td>97%</td>
<td>99%</td>
<td>83-118%</td>
</tr>
<tr>
<td>17060-07-0</td>
<td>1,2-Dichloroethane-D4</td>
<td>96%</td>
<td>98%</td>
<td>79-125%</td>
</tr>
<tr>
<td>2037-26-5</td>
<td>Toluene-D8</td>
<td>104%</td>
<td>103%</td>
<td>85-112%</td>
</tr>
<tr>
<td>460-00-4</td>
<td>4-Bromofluorobenzene</td>
<td>101%</td>
<td>103%</td>
<td>83-118%</td>
</tr>
</tbody>
</table>

(a) Confirmation run.
(b) Sample vial(s) contained significant headspace; reported results are considered minimum values.
(c) Result is from Run# 2

U = Not detected          MDL = Method Detection Limit          I = Result > = MDL but < PQL          J = Estimated value
PQL = Practical Quantitation Limit          V = Indicates analyte found in associated method blank
L = Indicates value exceeds calibration range          N = Indicates presumptive evidence of a compound
# Report of Analysis

<table>
<thead>
<tr>
<th>Client Sample ID:</th>
<th>HMF-A SW 38-31-20140213</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lab Sample ID:</td>
<td>FA12519-3</td>
</tr>
<tr>
<td>Date Sampled:</td>
<td>02/13/14</td>
</tr>
<tr>
<td>Matrix:</td>
<td>AQ - Ground Water</td>
</tr>
<tr>
<td>Date Received:</td>
<td>02/15/14</td>
</tr>
<tr>
<td>Method:</td>
<td>SW 846 8260B</td>
</tr>
<tr>
<td>Percent Solids:</td>
<td>n/a</td>
</tr>
<tr>
<td>Project:</td>
<td>HMF</td>
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</table>

<table>
<thead>
<tr>
<th>Run #1</th>
<th>File ID</th>
<th>DF</th>
<th>Analyzed By</th>
<th>Prep Date</th>
<th>Prep Batch</th>
<th>Analytical Batch</th>
</tr>
</thead>
<tbody>
<tr>
<td>Run #1</td>
<td>B096468.D</td>
<td>1</td>
<td>02/26/14</td>
<td>n/a</td>
<td>n/a</td>
<td>VB3932</td>
</tr>
<tr>
<td>Run #2</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

**Run #1**

- **Purge Volume**: 5.0 ml

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Compound</th>
<th>Result</th>
<th>PQL</th>
<th>MDL</th>
<th>Units</th>
<th>Q</th>
</tr>
</thead>
<tbody>
<tr>
<td>75-69-4</td>
<td>Trichlorofluoromethane</td>
<td>20.8</td>
<td>2.0</td>
<td>0.50</td>
<td>ug/l</td>
<td></td>
</tr>
</tbody>
</table>

**CAS No.**

<table>
<thead>
<tr>
<th>Compound</th>
<th>Result</th>
<th>PQL</th>
<th>MDL</th>
<th>Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1868-53-7</td>
<td>97%</td>
<td></td>
<td></td>
<td>83-118%</td>
</tr>
<tr>
<td>17060-07-0</td>
<td>95%</td>
<td></td>
<td></td>
<td>79-125%</td>
</tr>
<tr>
<td>2037-26-5</td>
<td>100%</td>
<td></td>
<td></td>
<td>85-112%</td>
</tr>
<tr>
<td>460-00-4</td>
<td>98%</td>
<td></td>
<td></td>
<td>83-118%</td>
</tr>
</tbody>
</table>

**CAS No. Surrogate Recoveries**

- **Run #1**: 1868-53-7
- **Run #2**: 17060-07-0
- **Limits**: 83-118%

- **U** = Not detected
- **MDL** = Method Detection Limit
- **PQL** = Practical Quantitation Limit
- **I** = Result $\geq$ MDL but $<\text{PQL}$
- **J** = Estimated value
- **V** = Indicates analyte found in associated method blank
- **L** = Indicates value exceeds calibration range
- **N** = Indicates presumptive evidence of a compound
## Report of Analysis

**Client Sample ID:** HMF-ASW 39-35-20140213  
**Lab Sample ID:** FA12519-4  
**Matrix:** AQ - Ground Water  
**Method:** SW 846 8260B  
**Date Sampled:** 02/13/14  
**Date Received:** 02/15/14  
**Percent Solids:** n/a  
**Project:** HMF

<table>
<thead>
<tr>
<th>Run #</th>
<th>File ID</th>
<th>DF</th>
<th>Analyzed</th>
<th>By</th>
<th>Prep Date</th>
<th>Prep Batch</th>
<th>Analytical Batch</th>
</tr>
</thead>
<tbody>
<tr>
<td>Run #1</td>
<td>B096470.D</td>
<td>100</td>
<td>02/26/14</td>
<td>WV</td>
<td>n/a</td>
<td>n/a</td>
<td>VB3932</td>
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<tr>
<td>Run #2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Run #1 Purge Volume:** 5.0 ml  
**Run #2 Purge Volume:**

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Surrogate Recoveries</th>
<th>Run# 1</th>
<th>Run# 2</th>
<th>Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1868-53-7</td>
<td>Dibromofluoromethane</td>
<td>98%</td>
<td>83-118%</td>
<td></td>
</tr>
<tr>
<td>17060-07-0</td>
<td>1,2-Dichloroethane-D4</td>
<td>96%</td>
<td>79-125%</td>
<td></td>
</tr>
<tr>
<td>2037-26-5</td>
<td>Toluene-D8</td>
<td>97%</td>
<td>85-112%</td>
<td></td>
</tr>
<tr>
<td>460-00-4</td>
<td>4-Bromofluorobenzene</td>
<td>100%</td>
<td>83-118%</td>
<td></td>
</tr>
</tbody>
</table>

**CAS No.**  
**Compound**  
**Result**  
**PQL**  
**MDL**  
**Units**  
**Q**

| 75-69-4 | Trichlorofluoromethane | 4160 | 200 | 50 | ug/l |

**Legend:**  
U = Not detected  
MDL = Method Detection Limit  
PQL = Practical Quantitation Limit  
I = Result > = MDL but < PQL  
J = Estimated value  
V = Indicates analyte found in associated method blank  
L = Indicates value exceeds calibration range  
N = Indicates presumptive evidence of a compound
# Report of Analysis

**Client Sample ID:** HMF-NLP-MW0001-008.5-20140327  
**Lab Sample ID:** FA13725-1  
**Date Sampled:** 03/27/14  
**Matrix:** AQ - Ground Water  
**Date Received:** 03/29/14  
**Method:** SW846 8260B  
**Percent Solids:** n/a  
**Project:** HMF

<table>
<thead>
<tr>
<th>Run #1</th>
<th>File ID</th>
<th>DF</th>
<th>Analyzed</th>
<th>By</th>
<th>Prep Date</th>
<th>Prep Batch</th>
<th>Analytical Batch</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>J093350.D</td>
<td>5</td>
<td>04/10/14</td>
<td>MM</td>
<td>n/a</td>
<td>n/a</td>
<td>VJ4642</td>
</tr>
</tbody>
</table>

**Purge Volume**  
Run #1: 5.0 ml  
Run #2:

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Compound</th>
<th>Result</th>
<th>PQL</th>
<th>MDL</th>
<th>Units</th>
<th>Q</th>
</tr>
</thead>
<tbody>
<tr>
<td>75-69-4</td>
<td>Trichlorofluoromethane</td>
<td>192</td>
<td>10</td>
<td>2.5</td>
<td>ug/l</td>
<td></td>
</tr>
</tbody>
</table>

**CAS No.**  
**Surrogate Recoveries**  
Run #1 Run #2 Limits

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Compound</th>
<th>Result</th>
<th>Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1868-53-7</td>
<td>Dibromofluoromethane</td>
<td>103%</td>
<td>83-118%</td>
</tr>
<tr>
<td>17060-07-0</td>
<td>1,2-Dichloroethane-D4</td>
<td>96%</td>
<td>79-125%</td>
</tr>
<tr>
<td>2037-26-5</td>
<td>Toluene-D8</td>
<td>99%</td>
<td>85-112%</td>
</tr>
<tr>
<td>460-00-4</td>
<td>4-Bromofluorobenzene</td>
<td>96%</td>
<td>83-118%</td>
</tr>
</tbody>
</table>

**U** = Not detected  
**MDL** = Method Detection Limit  
**PQL** = Practical Quantitation Limit  
**I** = Result > MDL but < PQL  
**J** = Estimated value  
**V** = Indicates analyte found in associated method blank  
**L** = Indicates value exceeds calibration range  
**N** = Indicates presumptive evidence of a compound
# Report of Analysis

**Client Sample ID:** HMF-NLP-MW0001-037.5-20140327  
**Lab Sample ID:** FA13725-2  
**Date Sampled:** 03/27/14  
**Matrix:** AQ - Ground Water  
**Date Received:** 03/29/14  
**Method:** SW846 8260B  
**Percent Solids:** n/a  
**Project:** HMF

<table>
<thead>
<tr>
<th>Run #</th>
<th>File ID</th>
<th>DF</th>
<th>Analyzed</th>
<th>By</th>
<th>Prep Date</th>
<th>Prep Batch</th>
<th>Analytical Batch</th>
</tr>
</thead>
<tbody>
<tr>
<td>Run #1</td>
<td>J093298.D</td>
<td>1</td>
<td>04/09/14</td>
<td>MM</td>
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<td>Run #2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Purge Volume**  
Run #1: 5.0 ml  
Run #2:            

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Compound</th>
<th>Result</th>
<th>PQL</th>
<th>MDL</th>
<th>Units</th>
<th>Q</th>
</tr>
</thead>
<tbody>
<tr>
<td>75-69-4</td>
<td>Trichlorofluoromethane</td>
<td>0.79</td>
<td>2.0</td>
<td>0.50</td>
<td>ug/l</td>
<td>I</td>
</tr>
</tbody>
</table>

**CAS No.**  
**Surrogate Recoveries**  
Run #1  
Run #2  

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Compound</th>
<th>Run #1</th>
<th>Run #2</th>
<th>Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1868-53-7</td>
<td>Dibromofluoromethane</td>
<td>99%</td>
<td></td>
<td>83-118%</td>
</tr>
<tr>
<td>17060-07-0</td>
<td>1,2-Dichloroethane-D4</td>
<td>90%</td>
<td></td>
<td>79-125%</td>
</tr>
<tr>
<td>2037-26-5</td>
<td>Toluene-D8</td>
<td>100%</td>
<td></td>
<td>85-112%</td>
</tr>
<tr>
<td>460-00-4</td>
<td>4-Bromofluorobenzene</td>
<td>99%</td>
<td></td>
<td>83-118%</td>
</tr>
</tbody>
</table>

**Key:**  
U = Not detected  
MDL = Method Detection Limit  
PQL = Practical Quantitation Limit  
I = Result > MDL but < PQL  
V = Indicates analyte found in associated method blank  
J = Estimated value  
L = Indicates value exceeds calibration range  
N = Indicates presumptive evidence of a compound
Report of Analysis

Client Sample ID: HMF-NLP-MW0004-037.5-20140327
Lab Sample ID: FA13725-3
Matrix: AQ - Ground Water
Method: SW846 8260B
Project: HMF

Date Sampled: 03/27/14
Date Received: 03/29/14
Percent Solids: n/a

Run #1
File ID: J093295.D
DF: 1
Prep Date: 04/09/14
Prep Batch: n/a
Analytical Batch: n/a

Purge Volume
Run #1: 5.0 ml
Run #2:

CAS No.   Compound                  Result  PQL  MDL  Units  Q
75-69-4    Trichlorofluoromethane   26.0    2.0  0.50  ug/l  Q

CAS No.   Surrogate Recoveries     Run# 1  Run# 2  Limits
1868-53-7  Dibromofluoromethane    102%    83-118%
17060-07-0 1,2-Dichloroethane-D4   92%    79-125%
2037-26-5  Toluene-D8              100%    85-112%
460-00-4   4-Bromofluorobenzene    96%    83-118%

U = Not detected    MDL = Method Detection Limit    I = Result > = MDL but < PQL    J = Estimated value
PQL = Practical Quantitation Limit    V = Indicates analyte found in associated method blank
L = Indicates value exceeds calibration range    N = Indicates presumptive evidence of a compound
# Report of Analysis

Client Sample ID: HMF-MW0005-037.5-20140327  
Lab Sample ID: FA13725-4  
Date Sampled: 03/27/14  
Matrix: AQ - Ground Water  
Date Received: 03/29/14  
Method: SW846 8260B  
Percent Solids: n/a  
Project: HMF

<table>
<thead>
<tr>
<th>Run #1</th>
<th>File ID</th>
<th>DF</th>
<th>Analyzed</th>
<th>By</th>
<th>Prep Date</th>
<th>Prep Batch</th>
<th>Analytical Batch</th>
</tr>
</thead>
<tbody>
<tr>
<td>Run #1</td>
<td>J093351.D</td>
<td>5</td>
<td>04/10/14</td>
<td>MM</td>
<td>n/a</td>
<td>n/a</td>
<td>VJ4642</td>
</tr>
</tbody>
</table>

**Purge Volume**  
Run #1: 5.0 ml  
Run #2:  

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Compound</th>
<th>Result</th>
<th>PQL</th>
<th>MDL</th>
<th>Units</th>
<th>Q</th>
</tr>
</thead>
<tbody>
<tr>
<td>75-69-4</td>
<td>Trichlorofluoromethane</td>
<td>286</td>
<td>10</td>
<td>2.5</td>
<td>ug/l</td>
<td></td>
</tr>
</tbody>
</table>

**CAS No.  Surrogate Recoveries**  
Run #1 | Run #2 | Limits  
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1868-53-7</td>
<td>Dibromofluoromethane</td>
<td>101%</td>
</tr>
<tr>
<td>17060-07-0</td>
<td>1,2-Dichloroethane-D4</td>
<td>94%</td>
</tr>
<tr>
<td>2037-26-5</td>
<td>Toluene-D8</td>
<td>102%</td>
</tr>
<tr>
<td>460-00-4</td>
<td>4-Bromofluorobenzene</td>
<td>95%</td>
</tr>
</tbody>
</table>

U = Not detected  
MDL = Method Detection Limit  
I = Result > = MDL but < PQL  
J = Estimated value  
PQL = Practical Quantitation Limit  
V = Indicates analyte found in associated method blank  
L = Indicates value exceeds calibration range  
N = Indicates presumptive evidence of a compound
# Report of Analysis

Client Sample ID: HMF-DLP-MW0004-037.5-20140710  
Lab Sample ID: FA16590-1  
Date Sampled: 07/10/14  
Matrix: AQ - Ground Water  
Date Received: 07/12/14  
Method: SW846 8260B  
Percent Solids: n/a  
Project: HMF

<table>
<thead>
<tr>
<th>Run #</th>
<th>File ID</th>
<th>DF</th>
<th>Analyzed</th>
<th>By</th>
<th>Prep Date</th>
<th>Prep Batch</th>
<th>Analytical Batch</th>
</tr>
</thead>
<tbody>
<tr>
<td>Run #1</td>
<td>B099963.D</td>
<td>2.5</td>
<td>07/24/14</td>
<td>DP</td>
<td>n/a</td>
<td>n/a</td>
<td>VB4061</td>
</tr>
<tr>
<td>Run #2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Purge Volume
Run #1: 5.0 ml
Run #2: 

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Compound</th>
<th>Result</th>
<th>PQL</th>
<th>MDL</th>
<th>Units</th>
<th>Q</th>
</tr>
</thead>
<tbody>
<tr>
<td>75-69-4</td>
<td>Trichlorofluoromethane</td>
<td>123</td>
<td>5.0</td>
<td>1.3</td>
<td>ug/l</td>
<td></td>
</tr>
</tbody>
</table>

**Surrogate Recoveries**

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Compound</th>
<th>Run #1</th>
<th>Run #2</th>
<th>Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1868-53-7</td>
<td>Dibromofluoromethane</td>
<td>98%</td>
<td></td>
<td>83-118%</td>
</tr>
<tr>
<td>17060-07-0</td>
<td>1,2-Dichloroethane-D4</td>
<td>101%</td>
<td></td>
<td>79-125%</td>
</tr>
<tr>
<td>2037-26-5</td>
<td>Toluene-D8</td>
<td>103%</td>
<td></td>
<td>85-112%</td>
</tr>
<tr>
<td>460-00-4</td>
<td>4-Bromofluorobenzene</td>
<td>104%</td>
<td></td>
<td>83-118%</td>
</tr>
</tbody>
</table>

**Units**

- **U** = Not detected
- **MDL** = Method Detection Limit
- **PQL** = Practical Quantitation Limit
- **I** = Result \( > \) MDL but \( < \) PQL
- **J** = Estimated value
- **V** = Indicates analyte found in associated method blank
- **N** = Indicates presumptive evidence of a compound
- **L** = Indicates value exceeds calibration range
## Report of Analysis

### Client Details
- **Client Sample ID:** HMF-DLP-MW0005-037.5-20140710
- **Lab Sample ID:** FA16590-2
- **Date Sampled:** 07/10/14
- **Matrix:** AQ - Ground Water
- **Date Received:** 07/12/14
- **Method:** SW846 8260B
- **Project:** HMF
- **Percent Solids:** n/a

### File ID Details

<table>
<thead>
<tr>
<th>File ID</th>
<th>DF</th>
<th>Analyzed</th>
<th>By</th>
<th>Prep Date</th>
<th>Prep Batch</th>
<th>Analytical Batch</th>
</tr>
</thead>
<tbody>
<tr>
<td>Run #1 B099964.D</td>
<td>50</td>
<td>07/24/14</td>
<td>DP</td>
<td>n/a</td>
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<tr>
<td>Run #2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Purge Volume

- **Run #1:** 5.0 ml
- **Run #2:** Purge Volume

### Compound Details

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Compound</th>
<th>Result</th>
<th>PQL</th>
<th>MDL</th>
<th>Units</th>
<th>Q</th>
</tr>
</thead>
<tbody>
<tr>
<td>75-69-4</td>
<td>Trichlorofluoromethane</td>
<td>2650</td>
<td>100</td>
<td>25</td>
<td>ug/l</td>
<td></td>
</tr>
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</table>

### Surrogate Recoveries

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Compound</th>
<th>Run #1</th>
<th>Run #2</th>
<th>Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1868-53-7</td>
<td>Dibromofluoromethane</td>
<td>98%</td>
<td>83-118%</td>
<td></td>
</tr>
<tr>
<td>17060-07-0</td>
<td>1,2-Dichloroethane-D4</td>
<td>98%</td>
<td>79-125%</td>
<td></td>
</tr>
<tr>
<td>2037-26-5</td>
<td>Toluene-D8</td>
<td>101%</td>
<td>85-112%</td>
<td></td>
</tr>
<tr>
<td>460-00-4</td>
<td>4-Bromofluorobenzene</td>
<td>105%</td>
<td>83-118%</td>
<td></td>
</tr>
</tbody>
</table>

---

**U** = Not detected  
**MDL** = Method Detection Limit  
**PQL** = Practical Quantitation Limit  
**I** = Result > = MDL but < PQL  
**J** = Estimated value  
**V** = Indicates analyte found in associated method blank  
**L** = Indicates value exceeds calibration range  
**N** = Indicates presumptive evidence of a compound
client Sample ID: HMF-DLP-MW0001-037.5-20140710
Lab Sample ID: FA16590-3
Matrix: AQ - Ground Water
Method: SW846 8260B
Project: HMF

<table>
<thead>
<tr>
<th>Run</th>
<th>File ID</th>
<th>DF</th>
<th>Analyzed</th>
<th>By</th>
<th>Prep Date</th>
<th>Prep Batch</th>
<th>Analytical Batch</th>
</tr>
</thead>
<tbody>
<tr>
<td>#1</td>
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<td>1</td>
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<td>n/a</td>
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<td>VB4061</td>
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<tr>
<td>#2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
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</table>

Purge Volume
Run #1 5.0 ml
Run #2

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Compound</th>
<th>Result</th>
<th>PQL</th>
<th>MDL</th>
<th>Units</th>
<th>Q</th>
</tr>
</thead>
<tbody>
<tr>
<td>75-69-4</td>
<td>Trichlorofluoromethane</td>
<td>51.2</td>
<td>2.0</td>
<td>0.50</td>
<td>ug/l</td>
<td>Q</td>
</tr>
</tbody>
</table>

CAS No. Surrogate Recoveries Run# 1 Run# 2 Limits
1868-53-7 | Dibromofluoromethane     | 104%   |     | 83-118% |
17060-07-0 | 1,2-Dichloroethane-D4    | 102%   |     | 79-125% |
2037-26-5 | Toluene-D8               | 98%    |     | 85-112% |
460-00-4 | 4-Bromofluorobenzene     | 103%   |     | 83-118% |

(a) Sample was treated with an anti-foaming agent.

U = Not detected MDL = Method Detection Limit I = Result ≥ MDL but < PQL J = Estimated value
PQL = Practical Quantitation Limit V = Indicates analyte found in associated method blank
L = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound
## Report of Analysis

**Client Sample ID:** HMF-DLP-MW0001-008.5-20140710  
**Lab Sample ID:** FA16590-4  
**Date Sampled:** 07/10/14  
**Matrix:** AQ - Ground Water  
**Date Received:** 07/12/14  
**Method:** SW846 8260B  
**Percent Solids:** n/a  
**Project:** HMF

<table>
<thead>
<tr>
<th>Run #1</th>
<th>File ID</th>
<th>DF</th>
<th>Analyzed</th>
<th>By</th>
<th>Prep Date</th>
<th>Prep Batch</th>
<th>Analytical Batch</th>
</tr>
</thead>
<tbody>
<tr>
<td>Run #1</td>
<td>B099966.D</td>
<td>5</td>
<td>07/24/14</td>
<td>DP</td>
<td>n/a</td>
<td>n/a</td>
<td>VB4061</td>
</tr>
<tr>
<td>Purge Volume</td>
<td>5.0 ml</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Compound</th>
<th>Result</th>
<th>PQL</th>
<th>MDL</th>
<th>Units</th>
<th>Q</th>
</tr>
</thead>
<tbody>
<tr>
<td>75-69-4</td>
<td>Trichlorofluoromethane</td>
<td>117</td>
<td>10</td>
<td>2.5</td>
<td>ug/l</td>
<td></td>
</tr>
</tbody>
</table>

**CAS No.** Surrogate Recoveries  
Run# 1  Run# 2  Limits

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Compound</th>
<th>Run# 1</th>
<th>Run# 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>1868-53-7</td>
<td>Dibromofluoromethane</td>
<td>103%</td>
<td>83-118%</td>
</tr>
<tr>
<td>17060-07-0</td>
<td>1,2-Dichloroethane-D4</td>
<td>101%</td>
<td>79-125%</td>
</tr>
<tr>
<td>2037-26-5</td>
<td>Toluene-D8</td>
<td>96%</td>
<td>85-112%</td>
</tr>
<tr>
<td>460-00-4</td>
<td>4-Bromofluorobenzene</td>
<td>99%</td>
<td>83-118%</td>
</tr>
</tbody>
</table>

**U = Not detected**  
**MDL = Method Detection Limit**  
**I = Result > MDL but < PQL**  
**J = Estimated value**  
**PQL = Practical Quantitation Limit**  
**L = Indicates value exceeds calibration range**  
**V = Indicates analyte found in associated method blank**  
**N = Indicates presumptive evidence of a compound**
## Report of Analysis

<table>
<thead>
<tr>
<th>Client Sample ID:</th>
<th>HMF-MW0005-037.5-20140923</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lab Sample ID:</td>
<td>FA18590-1</td>
</tr>
<tr>
<td>Matrix:</td>
<td>AQ - Ground Water</td>
</tr>
<tr>
<td>Method:</td>
<td>SW846 8260B</td>
</tr>
<tr>
<td>Project:</td>
<td>HMF</td>
</tr>
<tr>
<td>Date Sampled:</td>
<td>09/23/14</td>
</tr>
<tr>
<td>Date Received:</td>
<td>09/25/14</td>
</tr>
<tr>
<td>Percent Solids:</td>
<td>n/a</td>
</tr>
</tbody>
</table>

### Run Information

<table>
<thead>
<tr>
<th>Run #</th>
<th>DF</th>
<th>Analyzed</th>
<th>By</th>
<th>Prep Date</th>
<th>Prep Batch</th>
<th>Analytical Batch</th>
</tr>
</thead>
<tbody>
<tr>
<td>Run #1</td>
<td>O25403.D</td>
<td>100</td>
<td>MM</td>
<td>10/06/14</td>
<td>n/a</td>
<td>VO983</td>
</tr>
<tr>
<td>Run #2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>n/a</td>
<td></td>
</tr>
</tbody>
</table>

### Purge Volume
- Run #1: 5.0 ml
- Run #2:

### CAS No.  Compound  Result  MDL  Units  Q

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Compound</th>
<th>Result</th>
<th>PQL</th>
<th>MDL</th>
<th>Units</th>
<th>Q</th>
</tr>
</thead>
<tbody>
<tr>
<td>75-69-4</td>
<td>Trichlorofluoromethane</td>
<td>2130</td>
<td>200</td>
<td>50</td>
<td>ug/l</td>
<td></td>
</tr>
</tbody>
</table>

### CAS No.  Surrogate Recoveries  Run #  Run #  Limits

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Compound</th>
<th>Run #1</th>
<th>Run #2</th>
<th>Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1868-53-7</td>
<td>Dibromofluoromethane</td>
<td>85%</td>
<td>83-118%</td>
<td></td>
</tr>
<tr>
<td>17060-07-0</td>
<td>1,2-Dichloroethane-D4</td>
<td>87%</td>
<td>79-125%</td>
<td></td>
</tr>
<tr>
<td>2037-26-5</td>
<td>Toluene-D8</td>
<td>91%</td>
<td>85-112%</td>
<td></td>
</tr>
<tr>
<td>460-00-4</td>
<td>4-Bromofluorobenzene</td>
<td>90%</td>
<td>83-118%</td>
<td></td>
</tr>
</tbody>
</table>

**Legend:**
- U = Not detected
- MDL = Method Detection Limit
- PQL = Practical Quantitation Limit
- I = Result > = MDL but < PQL
- J = Estimated value
- V = Indicates analyte found in associated method blank
- L = Indicate value exceeds calibration range
- N = Indicates presumptive evidence of a compound
### Report of Analysis

**Client Sample ID:** HMF-NLP-MW0004-037.5-20140923  
**Lab Sample ID:** FA18590-2  
**Matrix:** AQ - Ground Water  
**Date Sampled:** 09/23/14  
**Lab Sample ID:** FA18590-2  
**Date Received:** 09/25/14  
**Method:** SW846 8260B  
**Percent Solids:** n/a  
**Project:** HMF

<table>
<thead>
<tr>
<th>Run #</th>
<th>File ID</th>
<th>DF</th>
<th>Analyzed</th>
<th>By</th>
<th>Prep Date</th>
<th>Prep Batch</th>
<th>Analytical Batch</th>
</tr>
</thead>
<tbody>
<tr>
<td>Run #1</td>
<td>O25404.D</td>
<td>100</td>
<td>10/06/14</td>
<td>MM</td>
<td>n/a</td>
<td>n/a</td>
<td>VO983</td>
</tr>
<tr>
<td>Run #2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Purge Volume**
  - Run #1: 5.0 ml
  - Run #2: 5.0 ml

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Compound</th>
<th>Result</th>
<th>PQL</th>
<th>MDL</th>
<th>Units</th>
<th>Q</th>
</tr>
</thead>
<tbody>
<tr>
<td>75-69-4</td>
<td>Trichlorofluoromethane</td>
<td>3370</td>
<td>200</td>
<td>50</td>
<td>ug/l</td>
<td></td>
</tr>
</tbody>
</table>

**Surrogate Recoveries**

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Compound</th>
<th>Run # 1</th>
<th>Run # 2</th>
<th>Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1868-53-7</td>
<td>Dibromofluoromethane</td>
<td>87%</td>
<td>83-118%</td>
<td></td>
</tr>
<tr>
<td>17060-07-0</td>
<td>1,2-Dichloroethane-D4</td>
<td>88%</td>
<td>79-125%</td>
<td></td>
</tr>
<tr>
<td>2037-26-5</td>
<td>Toluene-D8</td>
<td>90%</td>
<td>85-112%</td>
<td></td>
</tr>
<tr>
<td>460-00-4</td>
<td>4-Bromofluorobenzene</td>
<td>90%</td>
<td>83-118%</td>
<td></td>
</tr>
</tbody>
</table>

**Legend:**
- **U** = Not detected
- **MDL** = Method Detection Limit
- **PQL** = Practical Quantitation Limit
- **I** = Result > = MDL but < PQL
- **J** = Estimated value
- **V** = Indicates analyte found in associated method blank
- **L** = Indicates value exceeds calibration range
- **N** = Indicates presumptive evidence of a compound
# Report of Analysis

Client Sample ID: HMF-NLP-MW0001-037.5-20140923  
Lab Sample ID: FA18590-3  
Date Sampled: 09/23/14  
Matrix: AQ - Ground Water  
Date Received: 09/25/14  
Method: SW846 8260B  
Percent Solids: n/a  
Project: HMF

<table>
<thead>
<tr>
<th>Run #1</th>
<th>File ID</th>
<th>DF</th>
<th>Analyzed</th>
<th>By</th>
<th>Prep Date</th>
<th>Prep Batch</th>
<th>Analytical Batch</th>
</tr>
</thead>
<tbody>
<tr>
<td>Run #1</td>
<td>O25448.D</td>
<td>1</td>
<td>10/07/14</td>
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<td>n/a</td>
<td>n/a</td>
<td>VO984</td>
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<tr>
<td>Run #2</td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Purge Volume  
Run #1: 5.0 ml  
Run #2: 5.0 ml

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Compound</th>
<th>Result</th>
<th>PQL</th>
<th>MDL</th>
<th>Units</th>
<th>Q</th>
</tr>
</thead>
<tbody>
<tr>
<td>75-69-4</td>
<td>Trichlorofluoromethane</td>
<td>1.1</td>
<td>2.0</td>
<td>0.50</td>
<td>ug/l</td>
<td>I</td>
</tr>
</tbody>
</table>

Surrogate Recoveries  
<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Compound</th>
<th>Run# 1</th>
<th>Run# 2</th>
<th>Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1868-53-7</td>
<td>Dibromofluoromethane</td>
<td>87%</td>
<td>83-118%</td>
<td></td>
</tr>
<tr>
<td>17060-07-0</td>
<td>1,2-Dichloroethane-D4</td>
<td>87%</td>
<td>79-125%</td>
<td></td>
</tr>
<tr>
<td>2037-26-5</td>
<td>Toluene-D8</td>
<td>88%</td>
<td>85-112%</td>
<td></td>
</tr>
<tr>
<td>460-00-4</td>
<td>4-Bromofluorobenzene</td>
<td>88%</td>
<td>83-118%</td>
<td></td>
</tr>
</tbody>
</table>

U = Not detected  
MDL = Method Detection Limit  
PQL = Practical Quantitation Limit  
I = Result > MDL but < PQL  
J = Estimated value  
V = Indicates analyte found in associated method blank  
L = Indicates value exceeds calibration range  
N = Indicates presumptive evidence of a compound
### Report of Analysis

**Client Sample ID:** HMF-NLP-MW0001-008.5-20140923  
**Lab Sample ID:** FA18590-4  
**Date Sampled:** 09/23/14  
**Matrix:** AQ - Ground Water  
**Date Received:** 09/25/14  
**Method:** SW846 8260B  
**Percent Solids:** n/a  
**Project:** HMF

<table>
<thead>
<tr>
<th>Run #1</th>
<th>File ID</th>
<th>DF</th>
<th>Analyzed</th>
<th>By</th>
<th>Prep Date</th>
<th>Prep Batch</th>
<th>Analytical Batch</th>
</tr>
</thead>
<tbody>
<tr>
<td>Run #1</td>
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<td>10/06/14</td>
<td>MM</td>
<td>n/a</td>
<td>n/a</td>
<td>VO983</td>
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</table>

**Purge Volume**  
Run #1 5.0 ml  
Run #2

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Compound</th>
<th>Result</th>
<th>PQL</th>
<th>MDL</th>
<th>Units</th>
<th>Q</th>
</tr>
</thead>
<tbody>
<tr>
<td>75-69-4</td>
<td>Trichlorofluoromethane</td>
<td>132</td>
<td>20</td>
<td>5.0</td>
<td>ug/l</td>
<td>Q</td>
</tr>
</tbody>
</table>

**CAS No.**  
**Surrogate Recoveries**  
Run #1 Run #2 Limits

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Compound</th>
<th>Result</th>
<th>PQL</th>
<th>MDL</th>
<th>Units</th>
<th>Q</th>
</tr>
</thead>
<tbody>
<tr>
<td>1868-53-7</td>
<td>Dibromofluoromethane</td>
<td>86%</td>
<td></td>
<td>83-118%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>17060-07-0</td>
<td>1,2-Dichloroethane-D4</td>
<td>86%</td>
<td></td>
<td>79-125%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2037-26-5</td>
<td>Toluene-D8</td>
<td>90%</td>
<td></td>
<td>85-112%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>460-00-4</td>
<td>4-Bromofluorobenzene</td>
<td>90%</td>
<td></td>
<td>83-118%</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Legends:**

- **U** = Not detected  
- **MDL** = Method Detection Limit  
- **PQL** = Practical Quantitation Limit  
- **I** = Result > = MDL but < PQL  
- **J** = Estimated value  
- **V** = Indicates analyte found in associated method blank  
- **L** = Indicates value exceeds calibration range  
- **N** = Indicates presumptive evidence of a compound
Report of Analysis

Client Sample ID: HMF-NLP-MW0001-050.5-20140922
Lab Sample ID: FA18590-5
Date Sampled: 09/22/14
Matrix: AQ - Ground Water
Date Received: 09/25/14
Method: SW846 8260B
Percent Solids: n/a
Project: HMF

<table>
<thead>
<tr>
<th>Run #1</th>
<th>File ID</th>
<th>DF</th>
<th>Analyzed</th>
<th>By</th>
<th>Prep Date</th>
<th>Prep Batch</th>
<th>Analytical Batch</th>
</tr>
</thead>
<tbody>
<tr>
<td>Run #1</td>
<td>M77814.D</td>
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<td>VM3292</td>
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<td>Run #2</td>
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</tr>
</tbody>
</table>

Purge Volume
Run #1 5.0 ml
Run #2

CAS No.   Compound             Result | PQL | MDL | Units | Q
75-69-4   Trichlorofluoromethane 10.3 | 2.0  | 0.50 | ug/l |

CAS No.  Surrogate Recoveries Run# 1 Run# 2 Limits
1868-53-7 Dibromofluoromethane 95%       |     | 83-118% |
17060-07-0 1,2-Dichloroethane-D4 89%     |     | 79-125% |
2037-26-5  Toluene-D8 93%              |     | 85-112% |
460-00-4   4-Bromofluorobenzene 96%     |     | 83-118% |

(a) Sample was treated with an anti-foaming agent.

U = Not detected       MDL = Method Detection Limit
PQL = Practical Quantitation Limit
I = Result > = MDL but < PQL   J = Estimated value
V = Indicates analyte found in associated method blank
L = Indicates value exceeds calibration range
N = Indicates presumptive evidence of a compound
Report of Analysis

Client Sample ID: HMF-MW0009-037.5-20140923
Lab Sample ID: FA18590-6
Matrix: AQ - Ground Water
Method: SW846 8260B
Project: HMF
Date Sampled: 09/23/14
Date Received: 09/25/14
Percent Solids: n/a

<table>
<thead>
<tr>
<th>Run #</th>
<th>File ID</th>
<th>DF</th>
<th>Analyzed</th>
<th>By</th>
<th>Prep Date</th>
<th>Prep Batch</th>
<th>Analytical Batch</th>
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<tbody>
<tr>
<td>Run #1</td>
<td>J0960644.D</td>
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<td>10/04/14</td>
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<tr>
<td>Run #2</td>
<td></td>
<td></td>
<td></td>
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Purge Volume
Run #1 5.0 ml
Run #2

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Compound</th>
<th>Result</th>
<th>PQL</th>
<th>MDL</th>
<th>Units</th>
<th>Q</th>
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</thead>
<tbody>
<tr>
<td>75-69-4</td>
<td>Trichlorofluoromethane</td>
<td>45.4</td>
<td>2.0</td>
<td>0.50</td>
<td>ug/l</td>
<td></td>
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</tbody>
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<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Surrogate Recoveries</th>
<th>Run #1</th>
<th>Run #2</th>
<th>Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1868-53-7</td>
<td>Dibromofluoromethane</td>
<td>105%</td>
<td>83-118%</td>
<td></td>
</tr>
<tr>
<td>17060-07-0</td>
<td>1,2-Dichloroethane-D4</td>
<td>107%</td>
<td>79-125%</td>
<td></td>
</tr>
<tr>
<td>2037-26-5</td>
<td>Toluene-D8</td>
<td>94%</td>
<td>85-112%</td>
<td></td>
</tr>
<tr>
<td>460-00-4</td>
<td>4-Bromofluorobenzene</td>
<td>91%</td>
<td>83-118%</td>
<td></td>
</tr>
</tbody>
</table>

U = Not detected  MDL = Method Detection Limit  I = Result > = MDL but < PQL  J = Estimated value
PQL = Practical Quantitation Limit  V = Indicates analyte found in associated method blank
L = Indicates value exceeds calibration range  N = Indicates presumptive evidence of a compound
Accutest LabLink@155510 15:05 11-Nov-2014

Report of Analysis

<table>
<thead>
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<th>Client Sample ID:</th>
<th>HMF-MW0007-037.5-20140923</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lab Sample ID:</td>
<td>FA18590-7</td>
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<tr>
<td>Matrix:</td>
<td>AQ - Ground Water</td>
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<tr>
<td>Date Sampled:</td>
<td>09/23/14</td>
</tr>
<tr>
<td>Date Received:</td>
<td>09/25/14</td>
</tr>
<tr>
<td>Method:</td>
<td>SW846 8260B</td>
</tr>
<tr>
<td>Percent Solids:</td>
<td>n/a</td>
</tr>
<tr>
<td>Project:</td>
<td>HMF</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Analyzed By</th>
<th>Prep Date</th>
<th>Prep Batch</th>
<th>Analytical Batch</th>
</tr>
</thead>
<tbody>
<tr>
<td>DP</td>
<td>n/a</td>
<td>n/a</td>
<td>VJ4791</td>
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</tbody>
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<table>
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</tr>
</thead>
<tbody>
<tr>
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<td>5.0 ml</td>
</tr>
</tbody>
</table>

<table>
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<tr>
<th>CAS No.</th>
<th>Compound</th>
<th>Result</th>
<th>PQL</th>
<th>MDL</th>
<th>Units</th>
<th>Q</th>
</tr>
</thead>
<tbody>
<tr>
<td>75-69-4</td>
<td>Trichlorofluoromethane</td>
<td>0.50 U</td>
<td></td>
<td>2.0</td>
<td>0.50</td>
<td>ug/l</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Surrogate Recoveries</th>
<th>Run#1</th>
<th>Run#2</th>
<th>Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1868-53-7</td>
<td>Dibromofluoromethane</td>
<td>107%</td>
<td></td>
<td>83-118%</td>
</tr>
<tr>
<td>17060-07-0</td>
<td>1,2-Dichloroethane-D4</td>
<td>106%</td>
<td></td>
<td>79-125%</td>
</tr>
<tr>
<td>2037-26-5</td>
<td>Toluene-D8</td>
<td>93%</td>
<td></td>
<td>85-112%</td>
</tr>
<tr>
<td>460-00-4</td>
<td>4-Bromofluorobenzene</td>
<td>93%</td>
<td></td>
<td>83-118%</td>
</tr>
</tbody>
</table>

U = Not detected  MDL = Method Detection Limit  I = Result > = MDL but < PQL  J = Estimated value
PQL = Practical Quantitation Limit  V = Indicates analyte found in associated method blank
L = Indicates value exceeds calibration range  N = Indicates presumptive evidence of a compound
Client Sample ID: HMF-MW0008-037.5-20140923
Lab Sample ID: FA18590-8
Date Sampled: 09/23/14
Matrix: AQ - Ground Water
Date Received: 09/25/14
Method: SW846 8260B
Percent Solids: n/a
Project: HMF

<table>
<thead>
<tr>
<th>Run #1</th>
<th>File ID</th>
<th>DF</th>
<th>Analyzed By</th>
<th>Prep Date</th>
<th>Prep Batch</th>
<th>Analytical Batch</th>
</tr>
</thead>
<tbody>
<tr>
<td>Run #1</td>
<td>J0960646.D</td>
<td>1</td>
<td>DP</td>
<td>n/a</td>
<td>n/a</td>
<td>VJ4791</td>
</tr>
<tr>
<td>Run #2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Purge Volume
Run #1  5.0 ml
Run #2

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Compound</th>
<th>Result</th>
<th>PQL</th>
<th>MDL</th>
<th>Units</th>
<th>Q</th>
</tr>
</thead>
<tbody>
<tr>
<td>75-69-4</td>
<td>Trichlorofluoromethane</td>
<td>0.93</td>
<td>2.0</td>
<td>0.50</td>
<td>ug/l</td>
<td>I</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Surrogate Recoveries</th>
<th>Run # 1</th>
<th>Run # 2</th>
<th>Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1868-53-7</td>
<td>Dibromofluoromethane</td>
<td>105%</td>
<td>83-118%</td>
<td></td>
</tr>
<tr>
<td>17060-07-0</td>
<td>1,2-Dichloroethane-D4</td>
<td>108%</td>
<td>79-125%</td>
<td></td>
</tr>
<tr>
<td>2037-26-5</td>
<td>Toluene-D8</td>
<td>94%</td>
<td>85-112%</td>
<td></td>
</tr>
<tr>
<td>460-00-4</td>
<td>4-Bromofluorobenzene</td>
<td>91%</td>
<td>83-118%</td>
<td></td>
</tr>
</tbody>
</table>

U = Not detected
MDL = Method Detection Limit
PQL = Practical Quantitation Limit
L = Indicates value exceeds calibration range
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound
I = Result > = MDL but < PQL
J = Estimated value
### Report of Analysis

**Client Sample ID:** HMF-MW0006-037.5-20140923  
**Lab Sample ID:** FA18590-9  
**Date Sampled:** 09/23/14

**Matrix:** AQ - Ground Water  
**Date Received:** 09/25/14

**Method:** SW846 8260B  
**Percent Solids:** n/a

**Project:** HMF

<table>
<thead>
<tr>
<th>Run #</th>
<th>File ID</th>
<th>DF</th>
<th>Analyzed By</th>
<th>Prep Date</th>
<th>Prep Batch</th>
<th>Analytical Batch</th>
</tr>
</thead>
<tbody>
<tr>
<td>Run #1</td>
<td>J0960647.D</td>
<td>1</td>
<td>DP</td>
<td>n/a</td>
<td>n/a</td>
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</tr>
<tr>
<td>Run #2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Purge Volume**

Run #1 5.0 ml  
Run #2

### CAS No.  

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Compound</th>
<th>Result</th>
<th>PQL</th>
<th>MDL</th>
<th>Units</th>
<th>Q</th>
</tr>
</thead>
<tbody>
<tr>
<td>75-69-4</td>
<td>Trichlorofluoromethane</td>
<td>14.1</td>
<td>2.0</td>
<td>0.50</td>
<td>ug/l</td>
<td></td>
</tr>
</tbody>
</table>

### CAS No. Surrogate Recoveries

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Compound</th>
<th>Run# 1 (%)</th>
<th>Run# 2 (%)</th>
<th>Limits</th>
</tr>
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<tbody>
<tr>
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