

systems.

commodities.

removal from the incoming waste water stream.

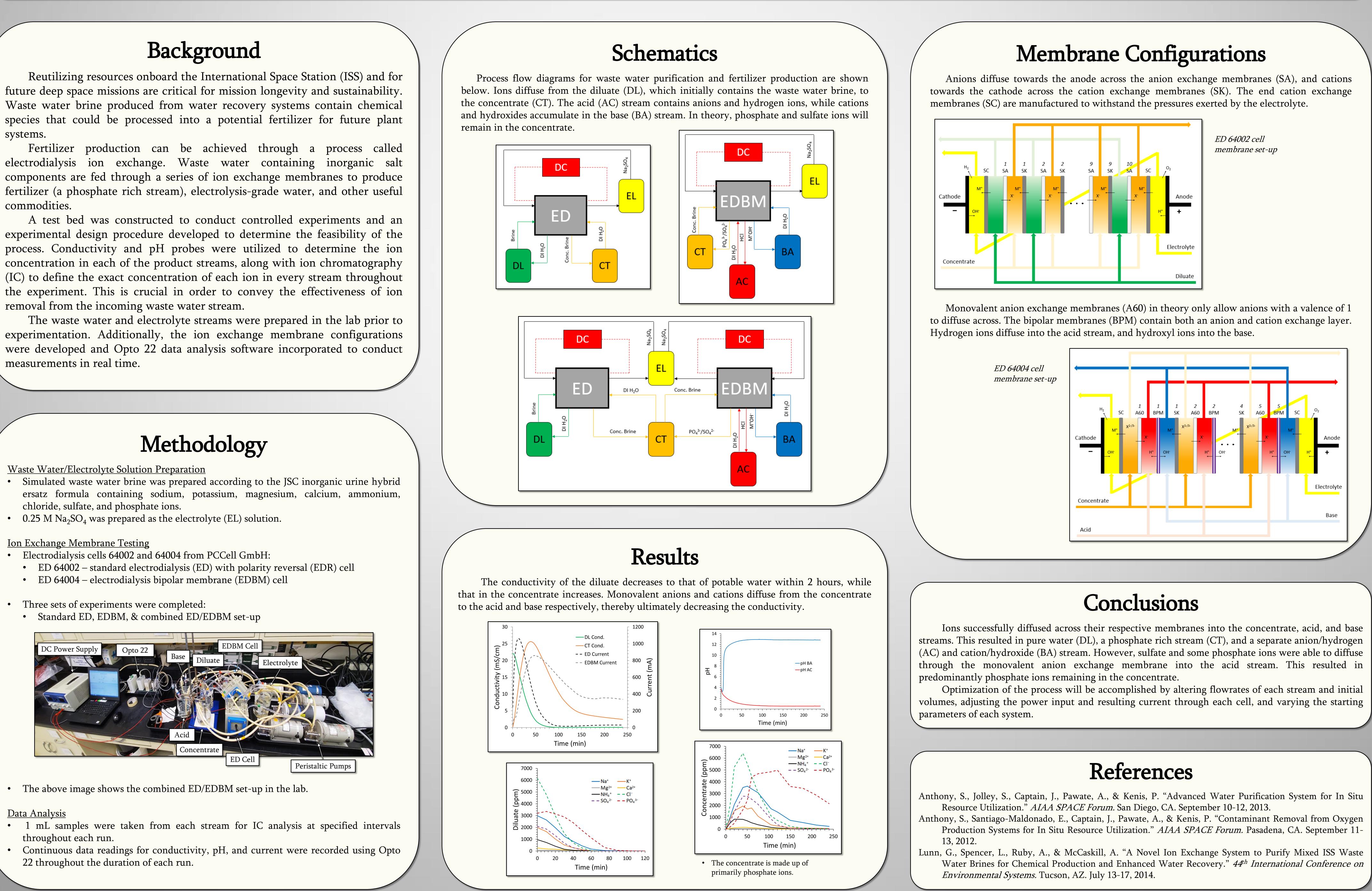
measurements in real time.

Waste Water/Electrolyte Solution Preparation

- chloride, sulfate, and phosphate ions.

# Ion Exchange Membrane Testing

- Electrodialysis cells 64002 and 64004 from PCCell GmbH:



The above image shows the combined ED/EDBM set-up in the lab.

# Data Analysis

- throughout each run.
- 22 throughout the duration of each run.

# Waste Water Brine Purification through Electrodialysis Ion Exchange Matt Hancock<sup>1,2</sup>, Sarah Snyder<sup>3</sup>, & Paul Hintze<sup>2</sup> <sup>1</sup>Chemical Engineering Ph.D. Candidate, University of Kentucky <sup>2</sup>NASA, Exploration Research & Technology, UB-R3, KSC <sup>3</sup>Scientist, AECOM, KSC

