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## **CASE NARRATIVE**

**JACOBS Engineering Group, Inc.**

**Project Name: Former Schlumberger STC PTC Site D3868221**

**Project # N/A**

**Order ID # Q2250**

**Test Name: Dissolved ICP-Group2,Mercury,Metals ICP-TAL**

### **A. Number of Samples and Date of Receipt:**

7 Water samples were received on 06/05/2025.

### **B. Parameters:**

According to the Chain of Custody document, the following analyses were requested: Alkalinity, Anions Group1, Dissolved ICP-Group2, Dissolved Metals Group3, Mercury, Metals ICP-TAL, METALS-TAL, SVOC-SIMGroup1, TDS and VOCMS Group3. This data package contains results for Dissolved ICP-Group2,Mercury,Metals ICP-TAL.

### **C. Analytical Techniques:**

The analysis of Dissolved ICP-Group2,Metals ICP-TAL was based on method 6020B, digestion based on method 3010 (waters). The analysis and digestion of Mercury was based on method 7470A.

### **D. QA/ QC Samples:**

The Holding Times were met for all analysis.

The Blank Spike met requirements for all samples.

The Duplicate (MW-17B-55-060425DUP) analysis met criteria for all elements except for Arsenic due to sample matrix interference.

The Matrix Spike (MW-17B-55-060425MS) analysis met criteria for all elements except for Arsenic and Silver due to Chemical Interference during Digestion Process. The Matrix Spike (TW-WTS-10MS) analysis met criteria for all elements except for Mercury due to sample matrix interference.

The Matrix Spike Duplicate (MW-17B-55-060425MSD) analysis met criteria for all elements except for Arsenic and Silver due to Chemical Interference during Digestion Process. The Matrix Spike Duplicate (TW-WTS-10MSD) analysis met criteria for all elements except for Mercury due to sample matrix interference.

The Blank analysis did not indicate the presence of lab contamination.

The Calibration met the requirements.

The Serial Dilution met the acceptable requirements.

### **E. Additional Comments:**

The Post Digest Spike (MW-17B-55-060425A) analysis met criteria for all samples except for Arsenic and Silver due to unknown chemical interference of matrix with the addition of spike amount after digestion and before analysis , matrix has suppression effect during addition of spike.



Sample Q2250-05 analyze as Total Metal and Sample Q2250-07 analyze as Dissolved Metal.

Collision cell is being used to remove potential interference. The analytes Na, Mg, Al, K, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, As are being analyzed with collision cell and analytes Be, B, Ca, Ti, Se, Sr, Zr, Mo, Ag, Cd, Sn, Sb, Ba, Tl, Pb, U are being analyzed with Non-Collision Cell. Helium gas is used for the Collision Cell analysis.

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I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature\_\_\_\_\_