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### **CASE NARRATIVE**

**CDM Smith**

**Project Name: South River WM Replacement**

**Project # N/A**

**Order ID # Q2150**

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

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

10 Solid samples were received on 05/28/2025.

#### **B. Parameters:**

According to the Chain of Custody document, the following analyses were requested: Diesel Range Organics, Gasoline Range Organics, Herbicide, Mercury, Metals ICP-TAL, METALS-TAL, PCB, Pesticide-TCL, SVOC-TCL BNA -20 and VOC-TCLVOA-10. This data package contains results for Mercury, Metals ICP-TAL.

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

The analysis of Metals ICP-TAL was based on method 6010D, digestion based on method 3050 (soils). The analysis and digestion of Mercury was based on method 7471B.

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

The Holding Times were met for all analysis.

The Blank Spike met requirements for all samples.

The Duplicate (OK-02-05292025DUP) analysis met criteria for all samples except for Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Potassium, due to sample matrix interference.

The Matrix Spike (OK-02-05292025MS) analysis met criteria for all samples except for Antimony, Beryllium, Copper, Potassium, Sodium, due to Chemical Interference during Digestion Process.

The Matrix Spike Duplicate (OK-02-05292025MSD) analysis met criteria for all samples except for Antimony, due to Chemical Interference during Digestion Process.

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

The Calibration met the requirements.

The Serial Dilution (OK-02-05292025L) met criteria for all samples except for Aluminum, Calcium, Copper, Magnesium, Manganese, due to sample matrix interference.

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

In analytical Sequence LB135981, The % Recovery outside limit for all parameter of CCV10 but, no any samples associated under this CCV.

The Post Digest Spike (OK-02-05292025A) analysis met criteria for all samples except for Potassium, Sodium due to unknown chemical interferences of matrix with the



addition of spike amount after digestion and before analysis , matrix has suppression effect during addition of spike

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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\_\_\_\_\_