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CASE NARRATIVE

CDM Smith

Project Name: South River WM Replacement

Project # N/A

Order ID # Q2458

Test Name: Mercury, Metals ICP-TAL

A. Number of Samples and Date of Receipt:

9 Solid samples were received on 06/27/2025.

1 Water sample was received on 06/27/2025.

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, VOC-TCLVOA-10 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) and 3010 (waters). The analysis and digestion of Mercury was based on method 7470A. 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 parameters.

The Duplicate (TP-68MSD) analysis met criteria for all parameters except for Copper due to matrix interference.

The Duplicate (TW-WTS-11MSD) analysis met criteria for all parameters except for Silver due to matrix interference.

The Matrix Spike (TP-68MS) analysis met criteria for all parameters except for Antimony, Copper, Potassium, Vanadium, Zinc due to matrix interference.

The Matrix Spike (TW-WTS-11MS) analysis met criteria for all parameters except for Silver due to matrix interference.

The Matrix Spike Duplicate (TP-68MSD) analysis met criteria for all parameters except for Antimony, Copper, Potassium, Vanadium, Zinc due to matrix interference.

The Matrix Spike Duplicate (TW-WTS-11MSD) analysis met criteria for all parameters except for Aluminum due to matrix interference.



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

The Serial Dilution (TW-WTS-11L) met criteria for all parameters except for Potassium due to unknown interference.

The Serial Dilution (WC-1L) met criteria for all parameters except for Mercury due to unknown interference.

E. Additional Comments:

The Post Digest Spike (TW-WTS-11A) analysis met criteria for all parameters except for Aluminum and Silver 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

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_____