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CASE NARRATIVE

Nobis Group
Project Name: Raymark Superfund Site
Project # N/A
Order ID # Q1883
Test Name: SPLP MetalGroup3,SPLP Mercury

A. Number of Samples and Date of Receipt:
17 Solid samples were received on 04/25/2025.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Cyanide, Herbicide Group1, Mercury, Metals ICP-TAL, METALS-TAL, PCB, Pesticide-TCL, SPLP Extraction, SPLP Mercury, SPLP MetalGroup3, SVOCMS Group3, VOCMS Group1 and VOCMS Group3. This data package contains results for SPLP MetalGroup3,SPLP Mercury.

C. Analytical Techniques:
The analysis of SPLP MetalGroup3 was based on method 6020B, digestion based on method 3050 (soils). The analysis of SPLP Mercury was based on method 7470A and digestion was based on method 7471B (soils).

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Blank Spike met requirements for all samples.
The Duplicate analysis met criteria for all samples.
The Matrix Spike (OU4-VSL-19-042325MS) analysis met criteria for all samples except for Mercury, Arsenic and Silver due to matrix interference.
The Matrix Spike Duplicate (OU4-VSL-19-042325MSD) analysis met criteria for all samples except for Mercury Arsenic and Silver due to 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:
All samples are diluted 5X dilution as straight analysis because of high and pure acid concentration of two acids which can cause drastic damage to the instrument.

Internal Standard 89Y(1 & 2) were out side qc limit for sample Q1883-08 in 5X run, so for this sample affected parameters were reported from 25X dilutions.
Internal Standard 89Y(1) were out side qc limit for samples Q1883-02, Q1883-04, Q1883-06, Q1883-10, Q1883-12, Q1883-14, Q1883-16 and its QC set in 5X run, so for these samples affected parameters were reported from 25X dilutions.

Collision cell is being used to remove potential interferences. 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.

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_____