284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

CASE NARRATIVE

Weston Solutions, Inc.
Project Name: RFP 879
Project # N/A
Chemtech Project # P3478
Test Name: SPLP Mercury,SPLP ICP Metals

A. Number of Samples and Date of Receipt:
10 Solid samples were received on 08/06/2024.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: EPH, SPLP BNA, SPLP Cyanide, SPLP Extraction, SPLP ICP Metals, SPLP Mercury, SPLP Metals, SPLP PCB, SPLP Pesticide, SPLP VOA and SPLP ZHE Ext. This data package contains results for SPLP Mercury,SPLP ICP Metals.

C. Analytical Techniques:
The analysis of SPLP ICP Metals was based on method 6010D, 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 (TS04MS) analysis met criteria for all samples except for Arsenic, Selenium and Thallium due to unknown chemical interference with the sample matrix.
The Matrix Spike Duplicate analysis met criteria for all samples.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.
The Serial Dilution met the acceptable requirements.

E. Calculation:

Calculation for SPLP Metals Sample:

$$\text{Concentration or Result } (\mu g/L) = C \times \frac{Vf \times DF \times 1000}{Vi}$$

Where,

C = Instrument value in ppm (The average of all replicate exposures)
Vf = Final digestion volume (mL)
Vi = Initial aliquot amount (mL) (Sample amount taken in prep)
DF = Dilution Factor

Calculation for SPLP Mercury Sample:

Concentration or Result (µg/L) = C x DF

Where,

C = Instrument response in µg/L from the calibration curve.
DF = Dilution Factor

F. Additional Comments:

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_____