CASE NARRATIVE

Weston Solutions, Inc.
Project Name: RFP 916
Project # N/A
Order ID # Q3176
Test Name: SVOC-TCL BNA -20

A. Number of Samples and Date of Receipt:
3 Solid samples were received on 09/23/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: SVOC-TCL BNA -20. This data package contains results for SVOC-TCL BNA -20.

C. Analytical Techniques:
The samples were analyzed on instrument BNA_F using GC Column DB-UI 8270D which is 20 meters, 0.18 mm ID, 0.36 um df. The analysis of SVOC-TCL BNA -20 was based on method 8270E and extraction was done based on method 3541.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries were met for all analysis except for PB169827BL [Terphenyl-d14 - 107%], marginally high, and EME-TS13-01 [2-Fluorobiphenyl - 16%], as per method one acid and one base surrogate allow to fail therefore no corrective action taken.

The Internal Standards Areas were met for all analysis.
The Retention Times were met for all analysis.

The MS {Q3178-02MS} with File ID: BF143817.D recoveries met the requirements for all compounds except for Benzo(b)fluoranthene[130%], due to matrix interference therefore no corrective action taken.

The MSD {Q3178-03MSD} with File ID: BF143818.D recoveries met the requirements for all compounds except for 2,6-Dinitrotoluene[139%] and Benzo(b)fluoranthene[139%], due to matrix interference therefore no corrective action taken.

The RPD were met for all analysis.

The Blank Spike for {PB169827BS} with File ID: BF143804.D met requirements for all compounds except for 2,6-Dinitrotoluene[112%], Butylbenzylphthalate[106%], marginally biased high The associate samples have no positive hit for these compounds therefore no corrective action was taken.

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

The %RSD is greater than 20% in the Method 8270-BF092325.M for 2-Nitrophenol & 2,4-Dinitrotoluene & are passing on Linear regression, and 2,4-Dinitrophenol, 4,6-Dinitro-2-methylphenol, they are passing on Quadratic regression.

The Continuous Calibration met the requirements.
The Tuning criteria met requirements.

E. Additional Comments:

The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.
The soil samples results are based on a dry weight basis.

Concentration of SOIL Sample:

Concentration ug/Kg,

$$\text{(dry weight basis)} = \frac{(Ax)\ (Is)\ (Vt)\ (DF)\ (GPC)}{(Ais)\ (\overline{RRF})\ (Vi)\ (Wt)\ (D)}$$

Where,
Ax = Area of the characteristic ion for the compound to be measured.
Ais = Area of the characteristic ion for the internal standard.
Is = Amount of internal standard injected in ng.
Vi = Volume of extract injected in microliters (uL)
Vt = Volume of concentrated extract in microliters (uL)
Wt = Weight of the original sample extracted in g
Df = Dilution factor

$\overline{RRF}$ = Mean Relative Response Factor determined from the initial calibration standard.
GPC = Vin = GPC factor (If no GPC is performed, GPC=1)
    Vout = Volume of extract collected after GPC cleanup.

F. Manual Integration Comments:

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

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_____