284 Sheffield Street, Mountainside, NJ 07092
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CASE NARRATIVE

G Environmental
Project Name: Ave L
Project # N/A
Chemtech Project # Q1574
Test Name: SVOC-TCL BNA -20

A. Number of Samples and Date of Receipt:
1 Solid sample was received on 03/14/2025.
1 Solid sample was received on 03/14/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Corrosivity, EPH, Ignitability, Mercury, Metals ICP-TAL, METALS-TAL, Paint Filter, PCB, pH, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, SVOC-TCL BNA -20, TCLP Extraction, TCLP ICP Metals, TCLP Mercury, TCLP METALS and VOC-TCLVOA-10. 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 samples were analyzed on instrument BNA_P using GC Column ZB-Semi Volatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGAThe 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 met the acceptable criteria except for WC1 [2,4,6-Tribromophenol - 21%, 2-Fluorobiphenyl - 27%, 2-Fluorophenol - 22%, Nitrobenzene-d5 - 24%, Phenol-d6 - 21%, Terphenyl-d14 - 26%] and WC1DL [2,4,6-Tribromophenol - 18%, 2-Fluorobiphenyl - 26%, 2-Fluorophenol - 19%, Nitrobenzene-d5 - 22%, Phenol-d6 - 18%, Terphenyl-d14 - 26%] these surrogate did not meet the NJDKQP criteria but met the in-house criteria.

The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.

The MS {Q1585-01MS} with File ID: BF141980.D recoveries met the requirements for all compounds except for 4,6-Dinitro-2-methylphenol[23%], 4-Chloroaniline[33%], Benzo(a)anthracene[67%], Benzo(g,h,i)perylene[69%], Benzo(k)fluoranthene[68%], Chrysene[67%], Fluoranthene[50%] and Phenanthrene[60%] , these compounds did not meet the NJDKQP criteria but met the in-house criteria.

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The MSD {Q1585-01MSD} with File ID: BF141981.D recoveries met the acceptable requirements except for 4,6-Dinitro-2-methylphenol[16%], 4-Chloroaniline[46%] and Fluoranthene[60%] , these compounds did not meet the NJDKQP criteria but met the in-house criteria

The RPD for {Q1585-01MSD} with File ID: BF141981.D met criteria except for 2,4-Dinitrophenol[24%], this compound did not meet the NJDKQP criteria but met the in-house criteria, while 4,6-Dinitro-2-methylphenol[36%], 4-Chloroaniline[33%] and Hexachlorocyclopentadiene[36%], this compound did not meet the NJDKQP criteria and in-house criteria but due to difference in results of MS and MSD.

The Blank Spike for {PB167157BS} with File ID: BP024181.D met requirements for all samples except for 3-Nitroaniline[59%], 4-Chloroaniline[49%], Atrazine[147%] and Hexachlorocyclopentadiene[164%] , these compounds did not meet the NJDKQP criteria but met the in-house criteria.

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

The % RSD is greater than 20% in the Initial Calibration (8270-BF031025.M) for 2,4-Dinitrophenol and this compound is passing on Linear Regression.
The Continuous Calibration met the requirements.

The Tuning criteria met requirements.

Samples WC1 analyzed with direct 5x dilution due to viscous matrix and needed further 5X dilution.

Sample WC1 was diluted due to high concentration.

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.
Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

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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_____