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CASE NARRATIVE

Nobis Group

Project Name: Raymark Superfund Site

Project # N/A

Order ID # Q1984

Test Name: SVOCMS Group3

A. Number of Samples and Date of Receipt:

17 Solid samples were received on 05/08/2025.

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 SVOCMS Group3.

C. Analytical Techniques:

The samples were analyzed on instrument BNA_P using GC Column ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGAThe analysis of SVOCMS Group3 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,

OU4-TS-24-050725 [Terphenyl-d14 - 46%],

OU4-TS-25-050725 [Terphenyl-d14 - 43%],

OU4-TS-26-050725 [Terphenyl-d14 - 40%],

OU4-TS-28-050725 [Terphenyl-d14 - 44%],

TP-13MS [Terphenyl-d14 - 49%],

TP-13MSD [Terphenyl-d14 - 50%],

TP-13MS [Terphenyl-d14 - 49%],

TP-13MSD [Terphenyl-d14 - 50%], As per SOW one Base surrogate is allowed to fail,

Therefore no further corrective action was taken.

and

OU4-TS-27-050725 [2-Fluorobiphenyl - 41%, Terphenyl-d14 - 35%],

OU4-TS-27-050725RX [2-Fluorobiphenyl - 42%, Terphenyl-d14 - 40%], Sample was re extracted to confirm surrogate failure, Both the analysis were reported for the hardcopy.

and

L2-WC-5MS [2-Fluorobiphenyl - 37%, Nitrobenzene-d5 - 35%, Terphenyl-d14 - 38%],
L2-WC-5MSD [2-Fluorobiphenyl - 37%, Nitrobenzene-d5 - 34%, Terphenyl-d14 - 40%].
Base surrogates are biased low in the proving matrix interference. Hence no corrective action is required.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The MS recoveries met the requirements for all compounds.

The MSD recoveries met the acceptable requirements.

The RPD met criteria.

The Blank Spike met requirements for all samples.

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

The Initial Calibration met the requirements.

The Continuous Calibration met the requirements.

The Tuning criteria met requirements.

E. Additional Comments:

As per special requirement for this project form-1 are reported in mg/kg.

The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.

The not QT review data is reported in the Miscellaneous.

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.

F. Manual Integration Comments:

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



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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_____