

CASE NARRATIVE

Nobis Group

Project Name: Raymark Superfund Site

Project # N/A

Chemtech Project # Q1383

Test Name: PCB

A. Number of Samples and Date of Receipt:

22 Solid samples were received on 02/18/2025.

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 and VOCMS Group3. This data package contains results for PCB.

C. Analytical Techniques:

The analyses were performed on instrument GCECD_P. The front column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0.5 um df, Catalogue # 7HM-G016-17. The rear column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 µm; Catalogue # 7HM-G017-11. The analysis of PCBs was based on method 8082A 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 PB166774BS [Decachlorobiphenyl(1) - 127%], DCB bias high in one column for DOD criteria but within QC limit for in house criteria, However all the target compounds recoveries are within DOD acceptance criteria therefore no corrective action taken, while for,

OU4-PCS-TC-11-021725MSD [Tetrachloro-m-xylene(1) - 134%]failing for surrogate but it is passing for Original sample and MS therefore no corrective action taken while for,

OU4-PCS-TC-15-021725 [Tetrachloro-m-xylene(1) - 133%, Tetrachloro-m-xylene(2) - 133%], OU4-PCS-TC-15-021725RE [Tetrachloro-m-xylene(1) - 139%, Tetrachloro-m-xylene(2) - 137%], OU4-PCS-TC-17-021725 [Tetrachloro-m-xylene(1) - 136%, Tetrachloro-m-xylene(2) - 132%], OU4-PCS-TC-17-021725RE [Tetrachloro-m-xylene(1) - 138%, Tetrachloro-m-xylene(2) - 133%], OU4-PCS-TC-19-021725 [Tetrachloro-m-xylene(1) - 133%, Tetrachloro-m-xylene(2) - 131%], OU4-PCS-TC-19-021725RE [Tetrachloro-m-xylene(1) - 136%, Tetrachloro-m-xylene(2) - 132%], OU4-CF-15-021725 [Tetrachloro-m-xylene(1) - 134%, Tetrachloro-m-xylene(2) - 134%],



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OU4-CF-15-021725RE [Tetrachloro-m-xylene(1) - 138% and Tetrachloro-m-xylene(2) - 136%], All the failure samples in surrogates with both columns were reanalyzed to confirm the results as per method and reported in the data.

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 File ID PP069953.D met the requirements except for Aroclor-1016(Peak-01) is failing in 1st column but it is passing in 2nd column therefore no corrective action taken.

E. Additional Comments:

The not QT review data is reported in the Miscellaneous.

The soil samples results are based on a dry weight basis.

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_____