284 Sheffield Street, Mountainside, NJ 07092
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CASE NARRATIVE

Tetra Tech NUS, Inc.
Project Name: CTO WE13
Project Manager : Ernie Wu
Chemtech Project # P4934
Test Name: SVOC-SIMGroup1

A. Number of Samples and Date of Receipt:
12 Water samples were received on 11/20/2024.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: SVOC-SIMGroup1 and VOCMS Group1. This data package contains results for SVOC-SIMGroup1.

C. Analytical Techniques:
The samples were analyzed on instrument BNA_N 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 SVOC-SIMGroup1 was based on method 8270-Modified and extraction was done based on method 3510.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria except for
BPOW6-11-20241118 [Nitrobenzene-d5 - 44%, Terphenyl-d14 - 155%],
BPOW6-7-20241118 [2-Fluorobiphenyl - 22%, Nitrobenzene-d5 - 52%, Terphenyl-d14 - 657%],
DUP-01-20241118 [2-Fluorobiphenyl - 15%, Nitrobenzene-d5 - 45%, Terphenyl-d14 - 702%],
BPOW6-10-20241119 [Nitrobenzene-d5 - 48%, Terphenyl-d14 - 189%],
BPOW6-10-20241119MS [2-Fluorobiphenyl - 36%, Nitrobenzene-d5 - 50%, Terphenyl-d14 - 192%],
BPOW6-10-20241119MSD [Nitrobenzene-d5 - 51%, Terphenyl-d14 - 216%],
BPOW6-9-20241119 [2-Fluorobiphenyl - 18%, Nitrobenzene-d5 - 47%, Terphenyl-d14 - 668%],
FB-01-20241119 [2-Fluorobiphenyl - 17%, Nitrobenzene-d5 - 53%, Terphenyl-d14 - 1178%],
BPOW6-8-20241119 [2-Fluorobiphenyl - 21%, Nitrobenzene-d5 - 48%, Terphenyl-d14 - 919%],
RB-01-20241119 [2-Fluorobiphenyl - 16%, Nitrobenzene-d5 - 49%, Terphenyl-d14 - 1048%],
DUP-02-20241119 [2-Fluorobiphenyl - 16%, Nitrobenzene-d5 - 47%, Terphenyl-d14 - 1163%],

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PB165150BL [2-Fluorobiphenyl - 183% and Nitrobenzene-d5 - 50%] failing surrogates were not associated with client parameter list, therefore no corrective action taken.

The Internal Standards Areas met the acceptable requirements except for FB-01-20241119, DUP-02-20241119 failing Internal Standards were not associated with client parameter list, therefore no corrective action taken.

The Retention Times were acceptable for all samples.
The MS {P4934-06MS} with File ID: BN035288.D recoveries met the requirements for all compounds except for 1,4-Dioxane[50%] due to matrix interference.

The MSD {P4934-07MSD} with File ID: BN035289.D recoveries met the acceptable requirements except for 1,4-Dioxane[54%] due to matrix interference.
The sample # BPOW6-10-20241119MS and BPOW6-10-20241119MSD is failing for 1,4-Dioxane and the original sample(BPOW6-10-20241119) is reported with M flag for this compounds.
The RPD met criteria .
The Blank Spike met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.

The % RSD is greater than 20% in the Initial Calibration (8270Sim-BN112524.M) for 2-Fluorobiphenyl and Terphenyl-d14 but not associated with client parameter list therefore this calibration is used for analysis.

The Continuous Calibration File ID BN035219.D met the requirements except for 2-Fluorobiphenyl,Fluoranthene-d10,Nitrobenzene-d5 and Terphenyl-d14 which are not our target compound, therefore no corrective action taken.

The Continuous Calibration File ID BN035235.D met the requirements except for 2-Fluorobiphenyl and Terphenyl-d14 which are not our target compound, therefore no corrective action taken.

The Tuning criteria met requirements.

E. Additional Comments:
The laboratory certifies that the all-electronic diskette deliverable exactly match the data summary forms (i.e. Form Is)."

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.

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_____