

CASE NARRATIVE

AECOM Technical Services, Inc.

Project Name: NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258

Project # N/A

Chemtech Project # P5376

Test Name: SVOC-SIMGroup1

A. Number of Samples and Date of Receipt:

21 Water samples were received on 12/20/2024.

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

TT205S1-20241218 [Terphenyl-d14 - 148%],

TT150S1-20241218 [Terphenyl-d14 - 134%],

RE115D2-20241218DL [Nitrobenzene-d5 - 131%, Terphenyl-d14 - 164%],

TT149S1-20241218 [Terphenyl-d14 - 138%],

DUP-07-20241218 [Terphenyl-d14 - 144%],

TT174I1-20241218 [Terphenyl-d14 - 143%],

RW10-MW01S-20241218 [Terphenyl-d14 - 137%],

RW10A-MW01I-20241218 [Terphenyl-d14 - 134%],

RE117D2-20241218 [Terphenyl-d14 - 141%],

TT161S1-20241219 [Terphenyl-d14 - 140%],

TT162S1-20241219 [Nitrobenzene-d5 - 114%, Terphenyl-d14 - 134%],

TT119S1-20241219 [Terphenyl-d14 - 133%],

TT188S1-20241219 [Terphenyl-d14 - 142%],

FB03-20241219 [Terphenyl-d14 - 143%], and

PB165828BS [Nitrobenzene-d5 - 122%], The failure surrogates not associated with the client parameters list, therefore no corrective action was taken.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The MS {P5376-08MS} with File ID: BN035821.D recoveries met the requirements for all compounds except for 1,4-Dioxane[53%], Due to poor compound the recovery no corrective action is required.

The MSD {P5376-09MSD} with File ID: BN035822.D recoveries met the acceptable requirements except for 1,4-Dioxane[51%], Due to poor compound the recovery no corrective action is required.

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 BN035811.D met the requirements except for 2,4,6-Tribromophenol, The failure compound not associated with the client parameters list, therefore no corrective action was taken.

The Continuous Calibration File ID BN035830.D met the requirements except for 1,4-Dioxane,2,4,6-Tribromophenol,Nitrobenzene-d5 and Phenol-d6, The associate samples have no positive hit for these compounds therefore no corrective action was taken. .

The Continuous Calibration File ID BN035845.D met the requirements except for Nitrobenzene-d5, The failure compound not associated with the client parameters list, therefore no corrective action was taken.

The Tuning criteria met requirements.

Sample RE115D2-20241218 was diluted due to high concentration.

E. Additional Comments:

The sample # S32-0576MRW10-MW01S-20241218MS and RW10-MW01S-20241218MSD is failing for cis-1,2-Dichloroethene and the original sample(RW10-MW01S-20241218) is reported with M flag for this compounds.

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 <15% 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 > 15% 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_____