

CASE NARRATIVE

AECOM Technical Services, Inc.

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

Project # N/A

Order ID # Q3097

Test Name: VOCMS Group1

A. Number of Samples and Date of Receipt:

26 Water samples were received on 09/12/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: VOCMS Group1. This data package contains results for VOCMS Group1.

C. Analytical Techniques:

The analysis performed on instrument MSVOA_X were done using GC column DB-624UI 20m 0.18mm 1.0 um. Cat#121-1324UI. The analysis of VOCMS Group1 was based on method 8260D.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries were met for all analysis except for

RE103D2-20250911 [1,2-Dichloroethane-d4 - 122%],

RE108D2-20250911DL [1,2-Dichloroethane-d4 - 119%, 4-Bromofluorobenzene - 118% and Toluene-d8 - 119%], Due to high concentration of compounds, this sample required dilution. Therefore, sample was reanalyzed with dilution and reported while for RE103D2-20250911MS [Toluene-d8 - 113%], surrogate recoveries passing in parent sample and MSD therefore no corrective action taken.

The Internal Standards Areas were met for all analysis.

The Retention Times were met for all analysis.

The MS {Q3097-02MS} with File ID: VX047715.D recoveries met the requirements for all compounds except for Bromochloromethane[124%], Trichloroethene[200%] due to matrix interference.

The MSD {Q3097-03MSD} with File ID: VX047716.D recoveries met the requirements for all compounds except for Trichloroethene[140%] due to matrix interference.

The sample # RE103D2-20250911MS and RE103D2-20250911MSD is failing for Bromochloromethane and Trichloroethene therefore the original sample(RE103D2-20250911) is reported with M flag for this compounds.



284 Sheffield Street, Mountainside, NJ 07092
Phone: 908 789 8900 Fax: 908 789 8922

The RPD for {Q3097-03MSD} with File ID: VX047716.D met criteria except for Trichloroethene[35%] due to difference in results of MS and MSD.

The Blank Spike met requirements for all compounds.

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

The Initial Calibration met the requirements.

The Continuous Calibration File ID VX047660.D met the requirements except for Bromomethane and Dichlorodifluoromethane are failing high but no positive hit in associate sample therefore no corrective action taken.

The Continuous Calibration File ID VX047689.D met the requirements except for Bromomethane, Carbon Disulfide, Chloromethane, Dichlorodifluoromethane and Vinyl Chloride are failing high but no positive hit in associate sample therefore no corrective action taken.

The Continuous Calibration File ID VX047719.D met the requirements except for Bromomethane, Dichlorodifluoromethane and Vinyl Chloride are failing high and associate sample having hit of Dichlorodifluoromethane but below CRQL therefore no corrective action taken.

The Continuous Calibration File ID VX047746.D met the requirements except for Dichlorodifluoromethane is failing high but no positive hit in associate sample therefore no corrective action taken.

The Continuous Calibration File ID VX047769.D met the requirements except for Methyl Acetate is failing high but no positive hit in associate sample therefore no corrective action taken.

END CCAL was not analyzed in sequence VX092425 due to power error in laboratory during the night and there are no more vials for re-analysis therefore all samples reported from this sequence without END CCAL.

The Tuning criteria met requirements.

Samples RE103D2-20250911, RE108D2-20250911, RE125D2-20250911, RE105D2-20250911, RE120D1-20250912, DUP06-20250912, RE120D2-20250912, RE134D4-20250912 and RE134D3-20250912 were diluted due to high concentrations.

E. Additional Comments:

The Sample #RE125D1-20250911, RE105D1-20250911, DUP04-20250911, RE120D1-20250912, RE134D1-20250912, RE134D2-20250912 have the concentration of target compound below Method detection limits, therefore it is not reported as Hit in Form1.



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The not QT review data is reported in the Miscellaneous.

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_____