



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

## **CASE NARRATIVE**

**AECOM Technical Services, Inc.**

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

**Project # N/A**

**Chemtech Project # P5261**

**Test Name: VOCMS Group1**

### **A. Number of Samples and Date of Receipt:**

21 Water samples were received on 12/11/2024.

### **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 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 met the acceptable criteria.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The MS {P5261-13MS} with File ID: VX044461.D recoveries met the requirements for all compounds except for Trichloroethene[20%] due to matrix interference.

The MSD {P5261-14MSD} with File ID: VX044462.D recoveries met the acceptable requirements except for Trichloroethene[60%] due to matrix interference.

The sample # RE125D1-20241210MS and RE125D1-20241210MSD is failing for Trichloroethene and the original sample(RE125D1-20241210) is reported with M flag for this compound.

The RPD for {P5261-14MSD} with File ID: VX044462.D met criteria except for Trichloroethene[100%] due to difference in results of MS-MSD.

The Blank Spike met requirements for all samples .

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



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The %RSD is greater than 20% in the Initial Calibration method (82X121124W.M) for t-1,3-Dichloropropene, Dibromochloromethane, Bromoform These compounds are passing on Quadratic Regression.

The Continuous Calibration File ID VX044438.D met the requirements except for Methylcyclohexane failing high but no positive hit in associated samples therefore no corrective action taken.

The Tuning criteria met requirements.

Sample RE122D2-20241209 was analyzed with straight 100X dilution due to samples past history of high concentration of Trichloroethene.

Samples RE122D1-20241209, RE103D1-20241209, RE103D2-20241209, RE134D3-20241210, RE134D4-20241210, RE125D1-20241210, RE125D2-20241210, RE125D3-20241210, RE120D2-20241210 and RE120D3-20241210 were diluted due to high concentrations.

**E. Additional Comments:**

The Sample #RE122D1-20241209, RE122D1-20241209, RE122D2-20241209, RE122D3-20241209, RE103D2-20241209, RE103D2-20241209DL, RE103D3-20241209, RE134D1-20241209, RE134D4-20241210, GM3-RW3-MW1-20241210, RE125D1-20241210, RE125D1-20241210DL, RE125D2-20241210, RE125D2-20241210DL, RE120D1-20241210, RE120D3-20241210, DUP-02-20241210, TB have the concentration of target compound below Method detection limits, therefore it is not reported as Hit in Form1.

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.

**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.



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Signature\_\_\_\_\_