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## **CASE NARRATIVE**

**Tetra Tech**

**Project Name: Ocean County Landfill 2024**

**Project # N/A**

**Chemtech Project # P4860**

**Test Name: VOC-TCLVOA-10**

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

10 Solid samples were received on 11/14/2024.

### **B. Parameters**

According to the Chain of Custody document, the following analyses were requested: Cyanide, EPH, Hexavalent Chromium, Mercury, Metals ICP-TAL, PCB, Pesticide-TCL, pH, SVOC-TCL BNA -20, TCL+30/TAL and VOC-TCLVOA-10. This data package contains results for VOC-TCLVOA-10.

### **C. Analytical Techniques:**

The analysis performed on instrument MSVOA\_D were done using GC column RTX-VMS which is 20 meters, 0.18 mm id, 1.0 um df, Restek Cat. #49914. The Trap was supplied by SUPELCO, K (VOACARB 3000) , TEKMAR LSC-2000 Concentrator. The analysis performed on instrument MSVOA\_Y were done using GC column Rxi-624Sil MS, which is 30 meters, 0.25 mm id, 1.4 um df, Restek Cat. #13868. The Trap was supplied by Supelco, VOCARB 3000, ATOMAX XYZ Concentrator. The analysis of VOC-TCLVOA-10 was based on method 8260D.

### **D. QA/ QC Samples:**

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria except for PH2-BOT-003 [4-Bromofluorobenzene - 61%, Toluene-d8 - 68%], PH2-BOT-004 [4-Bromofluorobenzene - 61% and Toluene-d8 - 64%] these compounds did not meet the NJDKQP criteria but met the in-house criteria.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The RPD met criteria .

The Blank Spike met requirements for all samples .

The Blank Spike Duplicate 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 method (82D111524S.M) for Bromomethane this compound is passing on Quadratic Regression.



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The %RSD is greater than 20% in the Initial Calibration method (82Y111924S.M) for Chloromethane is passing on Linear Regression.

The Continuous Calibration File ID VD080058.D met the requirements except for 1,2,4-Trichlorobenzene,2-Hexanone,4-Methyl-2-Pentanone and Acetone failing high but no positive hit in associated samples therefore no corrective action taken.

The Tuning criteria met requirements.

**E. Additional Comments:**

Samples for MS/MSD for VOC analysis were not provided with this set of samples. The Blank Spike Duplicate is reported with the data.

Trip Blank was not provided with this set of samples.

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

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.

**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.

Signature\_\_\_\_\_