



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

## **CASE NARRATIVE**

**Tetra Tech, EMI**

**Project Name: R36226**

**Project # N/A**

**Chemtech Project # N5234**

**Test Name: Pesticide-TCL**

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

10 Solid samples were received on 10/21/2022.

### **B. Parameters**

According to the Chain of Custody document, the following analyses were requested: Diesel Range Organics, Herbicide, Mercury, Metals ICP-TAL, PCB, Pesticide-TCL, SVOC-SIMGroup1, SVOCMS Group1 and TPH GC. This data package contains results for Pesticide-TCL.

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

The analyses were performed on instrument GCECD\_D. The front column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 um df, Catalog #: 7HM-G017-11 . The rear column is ZBMR1 which is 30 meters, 0.32 mm ID, 0.5 um df, Catalog # 7HM-G016-17. The analysis of Pesticide-TCLs was based on method 8081B and extraction was done based on method 3541.

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

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria.

The Retention Times were acceptable for all samples.

The MS recoveries for {N5235-02MS} with File ID: PD072604.D met requirements for all samples except for 4,4-DDD[156%], Aldrin[150%], alpha-BHC[141%], beta-BHC[138%], Dieldrin[147%], Endosulfan I[161%], gamma-BHC (Lindane)[143%], Heptachlor epoxide[139%] and Heptachlor[140%] due to sample matrix interference.

The MSD {N5235-03MSD} with File ID: PD072605.D recoveries met requirements for all samples except for 4,4-DDD[170%], Aldrin[163%], alpha-BHC[155%], beta-BHC[153%], delta-BHC[157%], Dieldrin[160%], Endosulfan I[176%], Endosulfan II[158%], Endrin ketone[131%], Endrin[144%], gamma-BHC (Lindane)[155%], Heptachlor epoxide[150%] and Heptachlor[152%] due to sample matrix interference.

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 PD072583.D met the requirements except for gamma-BHC (Lindane) is failing in 1st column. Associated samples have no positive hit of this compound.



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The Continuous Calibration File ID PD072601.D met the requirements except for gamma-BHC (Lindane) is failing in 1st column. Associated samples have no positive hit of this compound.

The Continuous Calibration File ID PD072607.D met the requirements except for gamma-BHC (Lindane) is failing in 1st column. Associated samples have no positive hit of this compound.

Samples LSP-SS-06-00-20, LSP-SS-07-00-20 was diluted due to bad matrix.

**E. Additional Comments:**

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

**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\_\_\_\_\_