

## **CASE NARRATIVE**

**Tetra Tech, EMI**

**Project Name: R36884 - PCB**

**Project # N/A**

**Chemtech Project # Q1572**

**Test Name: PCB Group1**

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

16 Solid samples were received on 03/14/2025.

### **B. Parameters**

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

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

The analyses were performed on instrument GCECD\_P. The front column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0.5 um df, Catalogue # 7HM-G016-17. The rear column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 µm; Catalogue # 7HM-G017-11. The analyses were performed on instrument GCECD\_O. The front column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0.5 um df, Catalogue # 7HM-G016-17. The rear column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 µm; Catalogue # 7HM-G017-11. The analysis of PCB Group1s was based on method 8082A 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 except for

C0AC9 [Decachlorobiphenyl(2) - 250%], C0AC9DL [Decachlorobiphenyl(2) - 347%], C0O16 [Decachlorobiphenyl(2) - 229%], C0O16DL [Decachlorobiphenyl(2) - 270%], C0O17 [Decachlorobiphenyl(2) - 295%], C0O17DL [Decachlorobiphenyl(2) - 483%], C0O18DL [Decachlorobiphenyl(2) - 178%], C0O20 [Decachlorobiphenyl(2) - 232%], C0O20DL [Decachlorobiphenyl(2) - 311%], AS per method one surrogate allowed to fail to meet the criteria per column. No further corrective action was taken while for,

Samples C0O14DL [Decachlorobiphenyl(2) - 232%, Tetrachloro-m-xylene(1) - 150%, Tetrachloro-m-xylene(2) - 167%],

C0O15DL2 [Decachlorobiphenyl(2) - 190%, Tetrachloro-m-xylene(2) - 159%], C0O22 [Decachlorobiphenyl(1) - 1865%, Decachlorobiphenyl(2) - 1454%],

C0O23 [Decachlorobiphenyl(1) - 222%, Decachlorobiphenyl(2) - 211%], C0O23DL [Decachlorobiphenyl(1) - 262%, Decachlorobiphenyl(2) - 272%],

C0O24 [Decachlorobiphenyl(1) - 249%, Decachlorobiphenyl(2) - 349%], these samples required dilution as well due to high concentration therefore samples were reanalyzed with dilution and reported while for,

Samples C0AC9DL2 [Decachlorobiphenyl(1) - 0%, Decachlorobiphenyl(2) - 0%, Tetrachloro-m-xylene(1) - 0%, Tetrachloro-m-xylene(2) - 0%],  
C0O14DL2 [Decachlorobiphenyl(1) - 0%, Decachlorobiphenyl(2) - 0%, Tetrachloro-m-xylene(1) - 0%, Tetrachloro-m-xylene(2) - 0%],  
C0O16DL2 [Decachlorobiphenyl(1) - 0%, Decachlorobiphenyl(2) - 0%, Tetrachloro-m-xylene(1) - 0%, Tetrachloro-m-xylene(2) - 0%],  
C0O17DL2 [Decachlorobiphenyl(1) - 0%, Decachlorobiphenyl(2) - 0%, Tetrachloro-m-xylene(1) - 0%, Tetrachloro-m-xylene(2) - 0%],  
C0O18DL2 [Decachlorobiphenyl(1) - 0%, Decachlorobiphenyl(2) - 0%, Tetrachloro-m-xylene(1) - 0%, Tetrachloro-m-xylene(2) - 0%],  
C0O21DL [Decachlorobiphenyl(1) - 0%, Decachlorobiphenyl(2) - 0%, Tetrachloro-m-xylene(1) - 0%, Tetrachloro-m-xylene(2) - 0%],  
C0O22DL [Decachlorobiphenyl(1) - 0%, Decachlorobiphenyl(2) - 0%, Tetrachloro-m-xylene(1) - 0%, Tetrachloro-m-xylene(2) - 0%],  
C0O24DL [Decachlorobiphenyl(1) - 0%, Decachlorobiphenyl(2) - 0%, Tetrachloro-m-xylene(1) - 0%, Tetrachloro-m-xylene(2) - 0%],  
C0O24DL2 [Decachlorobiphenyl(1) - 0%, Decachlorobiphenyl(2) - 0%, Tetrachloro-m-xylene(1) - 0% and Tetrachloro-m-xylene(2) - 0%] surrogates were diluted out due to high dilution, no further corrective action was taken.

The Retention Times were acceptable for all samples.

The MS {Q1572-06MS} with File ID: PP070564.D recoveries met the requirements for all compounds except for AR1016[7313%], AR1260[169%] due to sample matrix interference.

The MSD {Q1572-06MSD} with File ID: PP070565.D recoveries met the acceptable requirements except for AR1016[7777%], AR1260[215%] due to sample matrix interference.

The RPD for {Q1572-06MSD} with File ID: PP070565.D met criteria except for AR1260[24%] 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.

The Initial Calibration met the requirements .

The Continuous Calibration File ID PO109890.D met the requirements except for Decachlorobiphenyl is failing in 2nd column,

The Continuous Calibration File ID PO109904.D met the requirements except for Decachlorobiphenyl is failing in 1st column,

The Continuous Calibration File ID PO109923.D met the requirements except for Decachlorobiphenyl is failing in 2nd column,



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

above mentioned CCAL failing in one column but another column passing for that therefore no corrective action taken.

Samples C0AC9, C0AC9DL, C0O14, C0O14DL, C0O15, C0O15DL, C0O16, C0O16DL, C0O17, C0O17DL, C0O18, C0O18DL, C0O19, C0O20, C0O21, C0O22, C0O23, C0O24 and C0O24DL were diluted due to high concentrations.

**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.

---

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\_\_\_\_\_