

## **CASE NARRATIVE**

**Weston Solutions, Inc.**  
**Project Name: RFP 905**  
**Project # N/A**  
**Order ID # Q3447**  
**Test Name: PCB**

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

4 Solid samples were received on 10/23/2025.

### **B. Parameters**

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

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

The analyses were performed on instrument GCECD\_Q. 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\_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 analysis of PCBs 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 were met for all analysis except for  
P001-TW1-251023-01 [Tetrachloro-m-xylene(1)575%, Tetrachloro-m-xylene(2)4668%],  
P001-TW1-251023-01RE [Decachlorobiphenyl(1)705%, Tetrachloro-m-xylene(1)670%,  
Tetrachloro-m-xylene(2)4655%],  
P001-TW2-251023-01 [Tetrachloro-m-xylene(1)205%, Tetrachloro-m-xylene(2)1324%],  
P001-TW2-251023-01RE [Tetrachloro-m-xylene(1)221%, Tetrachloro-m-xylene(2)1318%], All the failure samples in surrogates with both columns were reanalyzed to confirm the results as per method and reported in the data while,

P001-TW3-251023-01 [Tetrachloro-m-xylene(2)167%] and P001-TW4-251023-01 [Tetrachloro-m-xylene(2)463%]

AS per method one surrogate allowed to fail to meet the criteria per column, No further corrective action was taken.

The Retention Times were met for all analysis.

The MS recoveries met the requirements for all compounds.

The MSD recoveries met the requirements for all compounds.

The RPD for {Q3450-02MSD} with File ID: PQ071154.D met criteria except for [AR1016(1)-29%, AR1016(2)-19%] due to difference in results of MS-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 PP076110.D met the requirements except for Aroclor-1260(Peak-04) is failing in 2nd column however it is passing in 1st column therefore no corrective action taken.

Samples P001-TW1-251023-01, P001-TW2-251023-01, P001-TW3-251023-01, P001-TW4-251023-01 were directly analyzed with 50X & 10X , due to samples are Oily and Tar matrix..

#### **E. Additional Comments:**

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

#### **F. Calculation for Concentration in Soil samples:**

$$\text{Concentration ug/Kg (Dry weight basis)} = \frac{(Ax) (Vt) (DF) (GPC)}{(CF) (Vi) (Ws) (D)}$$

Where,

Ax = Response (peak area or height) of the compound to be measured.

CF = Mean Calibration Factor from the initial calibration (area/ng).

Vt = Volume of the concentrated extract in uL

Vi = Volume of extract injected (uL). (If a single injection is made onto two columns, use ½ the volume in the syringe as the volume injected onto each column).

Ws = Weight of sample extracted (g).

$$D = \frac{\% \text{ dry weight or } 100 - \% \text{ Moisture}}{100}$$

$$GPC = \frac{V_{in}}{V_{out}} = \text{GPC factor (If no GPC is performed, GPC=1)}$$

DF = Dilution Factor

#### **G. 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



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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\_\_\_\_\_