



284 Sheffield Street, Mountainside, NJ 07092  
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## **CASE NARRATIVE**

**Weston Solutions, Inc.**

**Project Name: RFP 905**

**Project # N/A**

**Chemtech Project # Q1421**

**Test Name: SPLP Pesticide**

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

10 Solid samples were received on 02/24/2025.

### **B. Parameters**

According to the Chain of Custody document, the following analyses were requested: Cyanide, EPH, Mercury, Metals ICP-TAL, METALS TAL+CN, PCB, Pesticide-TCL, SPLP BNA, SPLP Cyanide, SPLP Extraction, SPLP ICP Metals, SPLP Mercury, SPLP PCB, SPLP Pesticide, SPLP VOA, SPLP ZHE Ext, SVOC-TCL BNA -20 and VOC-TCLVOA-10. This data package contains results for SPLP Pesticide.

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

The analysis was performed on instrument ECD\_L. The front column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0.5 um df.; Catalog # 7HM-G016-17. The rear column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 um df, Catalog #: 7HMG017- 11. The analysis of SPLP Pesticides 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 except for P001-CLAY-CF01-01 [Tetrachloro-m-xylene(2) - 127%], P001-CLAY-CF01-01MS [Tetrachloro-m-xylene(1) - 132%, Tetrachloro-m-xylene(2) - 127%], P001-CLAY-CF01-01MSD [Tetrachloro-m-xylene(1) - 129%, Tetrachloro-m-xylene(2) - 129%], Surrogate failure confirmed with the Original sample, P001-CLAY-CF01-02 [Tetrachloro-m-xylene(1) - 136%, Tetrachloro-m-xylene(2) - 135%], P001-CLAY-CF01-02RE [Tetrachloro-m-xylene(1) - 132% and Tetrachloro-m-xylene(2) - 134%] the failure sample in surrogates with both columns was reanalyzed to confirm the results as per method and reported in the data.

The Retention Times were acceptable for all samples.

The MS recoveries met the requirements for all compounds .

The MSD recoveries met the acceptable requirements

The RPD met criteria .

The Blank Spike met requirements for all samples .



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

The Initial Calibration met the requirements .

The Continuous Calibration met the requirements .

**E. Additional Comments:**

**F. Calculation for Concentration in Water Samples:**

$$\text{Concentration ug/L} = \frac{(A_x) (V_t) (DF) (GPC)}{(CF) (V_o) (V_i)}$$

Where,

A<sub>x</sub> = Response (peak area or height) of the compound to be measured.

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

V<sub>o</sub> = Volume of water extracted in mL.

V<sub>i</sub> = Volume of extract injected in uL.

V<sub>t</sub> = Volume of the concentrated extract in uL

GPC = V<sub>in</sub> = GPC factor (If no GPC is performed, GPC=1)

V<sub>out</sub>

V<sub>in</sub> = Volume of extract loaded onto GPC column.

V<sub>out</sub> = Volume of extract collected after GPC cleanup.

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 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\_\_\_\_\_