

## **CASE NARRATIVE**

### **Weston Solutions**

**Project Name: Ft Meade Tipton Airfield Parcel RI - PO 0111169**

**Project # N/A**

**Chemtech Project # P5117**

**Test Name: TCLP Herbicide**

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

2 Solid samples were received on 12/05/2024.

### **B. Parameters**

According to the Chain of Custody document, the following analyses were requested: Anions Group1, Cyanide, Ignitability, Mercury, Metals ICP-TAL, METALS-TAL, PCB, pH, Sulfide, TCLP BNA, TCLP Extraction, TCLP Herbicide, TCLP ICP Metals, TCLP Mercury, TCLP METALS, TCLP Pesticide, TCLP VOA, TCLP ZHE Extraction, TOC and TS. This data package contains results for TCLP Herbicide.

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

The analysis was performed on instrument ECD\_S. The front column is RTX-CLPesticides which is 30 meters, 0.32 mm ID, 0.5 um df, Catalog # 11139. The rear column is RTX-CLPesticides2 which is 30 meters, 0.32 mm ID, 0.25 um df, Catalog #: 11324. The analysis of TCLP Herbicides was based on method 8151A and extraction was done based on method 3510 and TCLP extraction method was 1311.

### **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 {P5117-02MS} with File ID: PS028721.D recoveries met the requirements for all compounds except for 2,4,5-TP(Silvex)[170%] due to matrix interference.

The MSD {P5117-02MSD} with File ID: PS028722.D recoveries met the acceptable requirements except for 2,4,5-TP(Silvex)[170%] due to matrix interference.

The sample # TAPIAL2-IDW-SOIL-120424-00-T2MS and TAPIAL2-IDW-SOIL-120424-00-T2MSD are failing for 2,4,5-TP(Silvex) and the original sample(TAPIAL2-IDW-SOIL-120424-00-T2) is reported with M flag for this compound.

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 met the requirements .



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**E. Additional Comments:**

The not QT review data is reported in the Miscellaneous.

**F: Calculation for water sample**

$$\text{ug/l} = \frac{(A_x)(V_t)(MW)}{(ICF)(V_i)(V_s)} \times DF$$

Where:

A<sub>x</sub> = Area for the parameter to be measured.

ICF = average calibration factor for the calibration standards.

V<sub>t</sub> = Volume of total extract in uL (Take into account dilutions)

I<sub>s</sub> = Amount of standard injected in nanograms (ng)

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

V<sub>s</sub> = Volume of Aqueous extracted (mL).

MW = molecular weight of the compound

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