

## **CASE NARRATIVE**

**Earth Engineering Inc.**

**Project Name: Reserve Turgyan Farms**

**Project # N/A**

**Order ID # Q2818**

**Test Name: Pesticide-TCL**

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

2 Solid samples were received on 08/11/2025.

### **B. Parameters**

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

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

The analysis was performed on instrument ECD\_D. 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 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 were met for all analysis.

The Retention Times were met for all analysis.

The MS recoveries for {Q2819-14MS} with File ID: PD089894.D met requirements for all samples except for [alpha-Chlordane(1)-31% - alpha-Chlordane(2)-15%], [gamma-Chlordane(1)-5% - gamma-Chlordane(2)15%], [Heptachlor epoxide(1)137% - Heptachlor epoxide(2)161%], , [Endosulfan II(2)514%], and [Endrin(2)177%] Due to matrix interference due to matrix interference.

The MSD {Q2819-14MSD} with File ID: PD089895.D recoveries met the acceptable requirements except for [alpha-Chlordane(1)-36% - alpha-Chlordane(2)-10%], [gamma-Chlordane(1)-15% - gamma-Chlordane(2)5%], [Heptachlor epoxide(1)148% - Heptachlor epoxide(2)160%],[Endosulfan II(2)520%], and [Endrin(2)176%] Due to matrix interference.%] due to matrix interference.

The RPD for {Q2819-14MSD} with File ID: PD089895.D met criteria except for [Aldrin(1)50%], [gamma-Chlordane(1)100%], [Endosulfan I(2)39%] [Alpha-Chlordane(2)40%] , [Gamma-Chlordane(2)100%] and [4,4-DDD(2)42%] due to difference in results of MS and MSD.

The Blank Spike met requirements for all compounds.



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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:**

The temperature of the samples at the time of receipt was 6.1°C.  
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\_\_\_\_\_